

modu lyss®

Product catalogue

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00

ALPHA

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LRV 13 L 42

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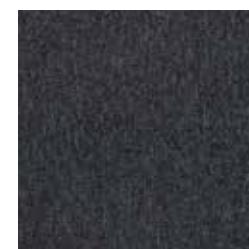
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LRV 12 L 41

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LRV 3 L 21

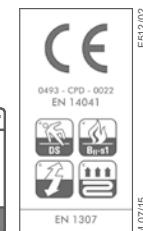
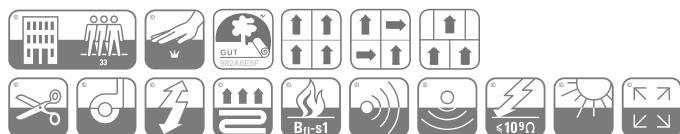
991

ALPHA

4

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 500 g/m ²	THERMAL RESISTANCE	ISO 8302 0.067 m ² K/W
PILE ABOVE BACKING	Ca. 302 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL: 30 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.04 0.03 0.07 0.15 0.29 0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.116 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10 ³ Ohm
TUFT DENSITY	Ca. 171 600 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	14
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
DONNÉES ENVIRONNEMENTALES	Démarche HQE®: cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	982A6E5F Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₃ C ₀ 329T-009.1 		



F512/02 M 07/15

Sustainable datasheet

1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 982A6E5F.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ae, A-rating - Eco point score 0.284.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 27.9%
MR4 Post-Industrial recycled content: 53%
MR4 Post-Consumer recycled content: 1.4%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

6

01

FIRST



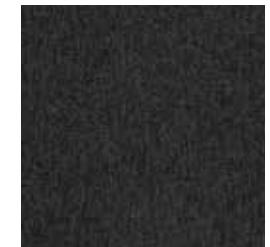
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LRV 4 L 24 990



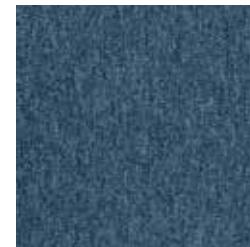
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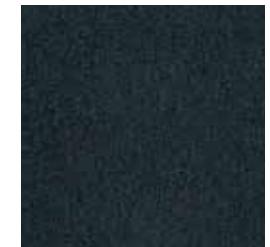
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LRV 7 L 32 504



LRV 3 L 20 553



LRV 11 L 40 817



LRV 8 L 35 876



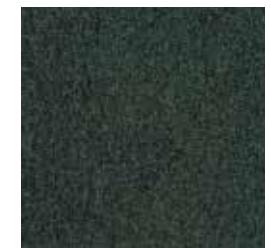
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LRV 15 L 44 213



LRV 10 L 37 616



LRV 6 L 27 684



LRV 25 L 57 102



LRV 19 L 50 140



LRV 11 L 39 601



LRV 13 L 42 313



LRV 6 L 29 129



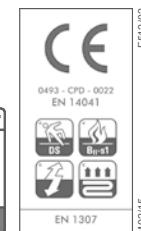
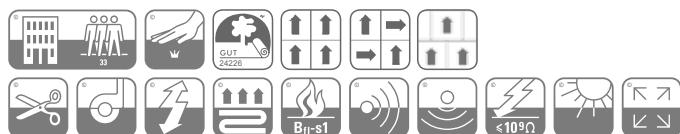
LRV 4 L 25 316

FIRST

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m ²	THERMAL RESISTANCE	ISO 8302 0.047 m ² K/W
PILE ABOVE BACKING	Ca. 330 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ³ Ohm
TUFT DENSITY	Ca. 156 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	22
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₁ C ₀ 329T-006.1 	GUT-NR	24226
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 52% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed Nylon
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 24226.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428i, A-rating – Eco point score 0.295
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 26.6%
MR4 Post-Industrial recycled content: 50.5%
MR4 Post-Consumer recycled content: 1.4%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- DGNB (DE)
German Sustainable Building Council
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit www.dgnb-navigator.de/company/products/modulyss

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



02

MILLENNIUM100



LRV 20 L 52

108



LRV 15 L 46

152



LRV 13 L 43

299



LRV 5 L 26

310



LRV 5 L 26

395



LRV 6 L 30

332



LRV 19 L 50

915



LRV 20 L 51

817



LRV 13 L 43

795



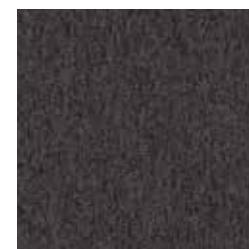
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LRV 5 L 25

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LRV 8 L 33

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LRV 9 L 36

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LRV 13 L 43

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LRV 10 L 38

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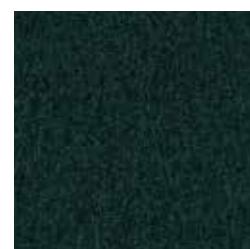
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LRV 6 L 29

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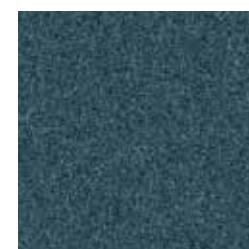
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LRV 5 L 27

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LRV 11 L 47

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LRV 14 L 44

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LRV 6 L 28

603



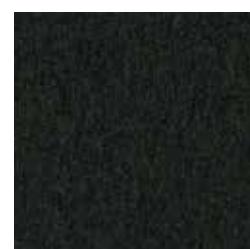
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LRV 4 L 23

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LRV 4 L 24

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LRV 8 L 34

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LRV 13 L 42

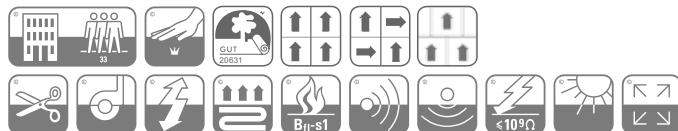
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MILLENNIUM100

12

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn + 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 585 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 580 g/m ²	THERMAL RESISTANCE	ISO 8302 0.055 m ² K/W
PILE ABOVE BACKING	Ca. 380 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 38 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.02 0.02 0.07 0.20 0.28 0.34
PILE HEIGHT	Ca. 3.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ³ Ohm
TUFT DENSITY	Ca. 147 750 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	27
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₁ C ₀ 329T-001.1 	GUT-NR	20631
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 02/13

Sustainable datasheet

1. RECYCLED CONTENT

- 65% Overall recycled content.
- Yarn
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulys® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulys® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulys® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulys®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 20631. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulys® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulys® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulys® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428r, A⁺-rating – Eco point score 0.26
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 36.5%
MR4 Post-Industrial recycled content: 57.2%
MR4 Post-Consumer recycled content: 7.9%
- HQE (FR)
Haute Qualité Environnementale
In 2005 modulys® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- DGNB (DE)
German Sustainable Building Council
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit www.dgnb-navigator.de/company/products/modulys
- Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulys® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulys® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulys® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

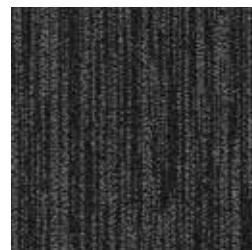
9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulys® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulys® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



04

ON-LINE 1



LRV 8 L 34 032



LRV 8 L 34 204



LRV 8 L 33 617



LRV 3 L 20 609



LRV 4 L 24 684



LRV 5 L 21 990



LRV 5 L 28 322



LRV 4 L 24 316



LRV 4 L 22 438



LRV 5 L 26 504

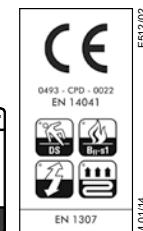
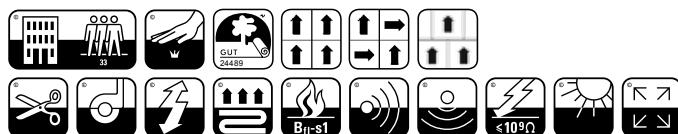
Go to page 95 for the WHITE&BLACK ON-LINE colour palette.

ON-LINE 1

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 530 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m ²	THERMAL RESISTANCE	ISO 8302 0.036 m ² K/W
PILE ABOVE BACKING	Ca. 380 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 35 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.03 0.04 0.14 0.25 0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 146 500 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	10, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	24489
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% PA 6.6 Antron®
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeleveld, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 24489.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428t, A-rating – Eco point score 0.353
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 26.1%
MR4 Post-Industrial recycled content: 48.8%
MR4 Post-Consumer recycled content: 1.7%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

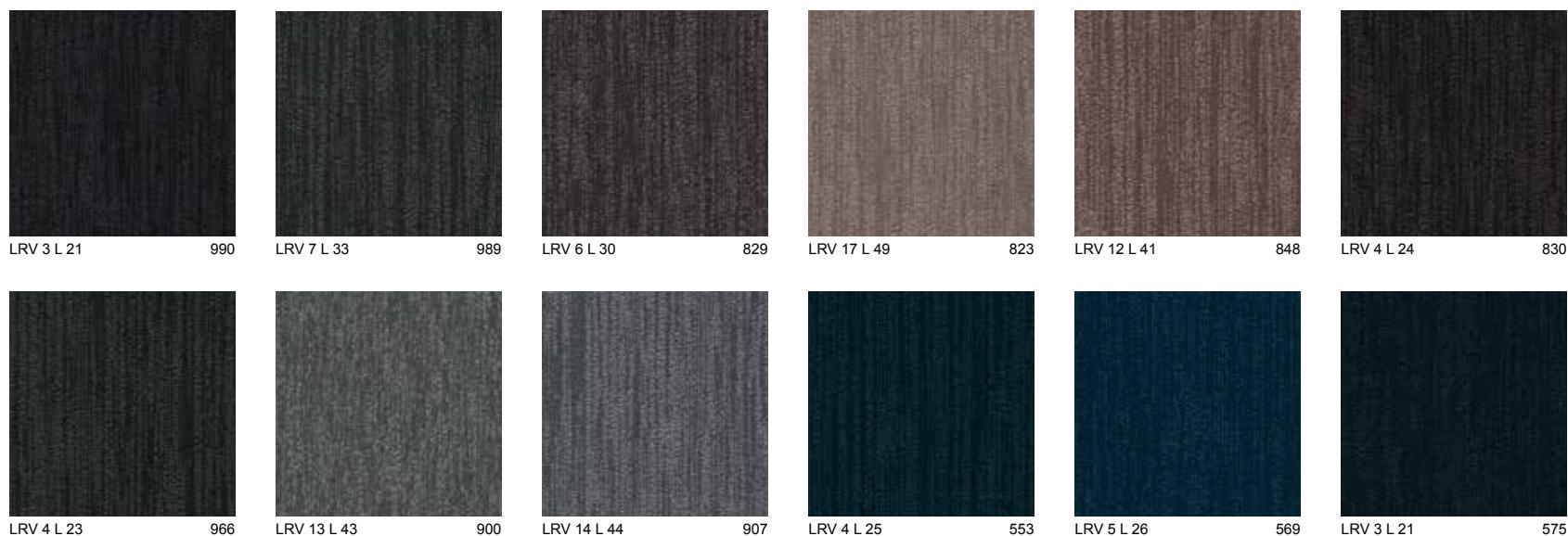
9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



05

ON-LINE 2



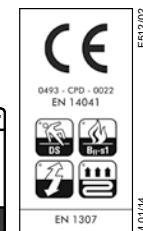
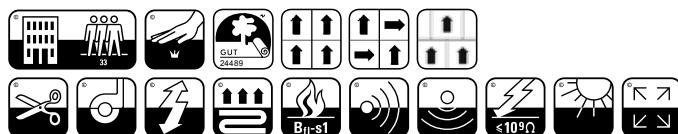
Go to page 95 for the WHITE&BLACK ON-LINE colour palette.

ON-LINE 2

20

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 530 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m ²	THERMAL RESISTANCE	ISO 8302 0.036 m ² K/W
PILE ABOVE BACKING	Ca. 380 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 35 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.03 0.04 0.14 0.25 0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 146 500 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	12, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	24489
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% PA 6.6 Antron®
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
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SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

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Building Research Establishment.
This product can contribute towards credits in:

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To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428t, A-rating – Eco point score 0.353
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

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Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 21.6%
MR4 Post-Industrial recycled content: 48.8%
MR4 Post-Consumer recycled content: 1.7%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



06

STEP



LRV 5 L 27

482



LRV 16 L 47

102



LRV 23 L 55

213



LRV 12 L 42

323



LRV 11 L 40

313



LRV 7 L 32

129



LRV 7 L 31

316



LRV 6 L 30

319



LRV 11 L 39

187



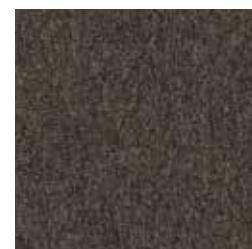
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LRV 15 L 45

622



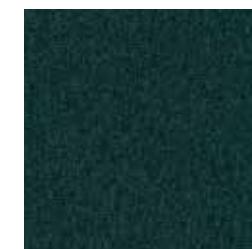
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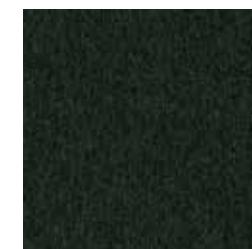
LRV 6 L 29

616



LRV 7 L 31

684



LRV 4 L 23

613



LRV 6 L 30

822



LRV 12 L 41

807



LRV 13 L 42

938



LRV 12 L 41

950



LRV 14 L 45

994



LRV 8 L 34

573



LRV 6 L 28

550



LRV 10 L 37

838



LRV 14 L 44

907



LRV 23 L 55

817



LRV 19 L 50

900



LRV 8 L 34

961



LRV 7 L 32

500



LRV 6 L 30

552



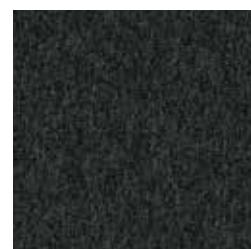
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830



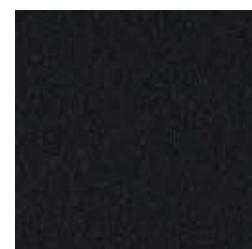
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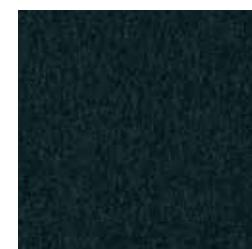
LRV 6 L 29

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LRV 3 L 22

965



LRV 6 L 28

592



LRV 16 L 46

579



LRV 9 L 37

595

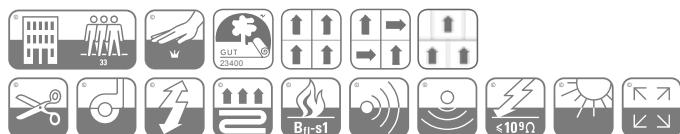
Go to page 79 for the XTRA STEP colour palette.

STEP

24

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 530 g/m ²	THERMAL RESISTANCE	ISO 8302 0.053 m ² K/W
PILE ABOVE BACKING	Ca. 335 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 33 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.03 0.06 0.23 0.30 0.35
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.120 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 160 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	36, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₁ C ₀ 329T-005.1 	GUT-NR	23400
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 53% Overall recycled content.
- Yarn
100% PA 6 Aqualon
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 23400.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428y, A-rating – Eco point score 0.299
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 27.5%
MR4 Post-Industrial recycled content: 51.8%
MR4 Post-Consumer recycled content: 1.6%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- DGNB (DE)
German Sustainable Building Council
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit www.dgnb-navigator.de/company/products/modulyss

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



07

AFFINITY

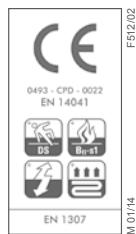
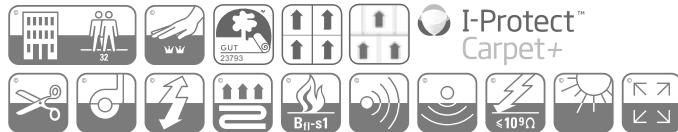
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 LRV 20 L 52 983	 LRV 12 L 42 963	 LRV 7 L 31 966	 LRV 5 L 25 991	 LRV 4 L 25 592	 LRV 7 L 33 552
 LRV 24 L 56 957	 LRV 13 L 43 907	 LRV 12 L 42 573	 LRV 10 L 38 900	 LRV 12 L 41 595	 LRV 16 L 47 510

AFFINITY

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Technical datasheet

CONSTRUCTION	Tufted 1/10" cutpile Frisé	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 655 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 850 g/m ²	THERMAL RESISTANCE	ISO 8302 0.051 m ² K/W
PILE ABOVE BACKING	Ca. 628 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 34 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 8.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.03 0.02 0.09 0.22 0.37 0.50
PILE HEIGHT	Ca. 4.7 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.134 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 188 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	24, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
ANTISOIL TREATED	I-Protect™ Carpet+	GUT-NR	23793
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn
100% PA 6.6 Antron®
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 23793.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 34 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428a, A-rating – Eco point score 0.381
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 24.8%
MR4 Post-Industrial recycled content: 46.5%
MR4 Post-Consumer recycled content: 1.6%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 34 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

30



**modu
lyss®**

UNIQUE 617

08

UNIQUE



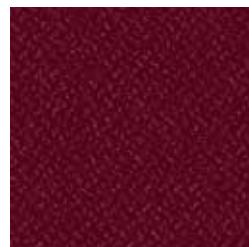
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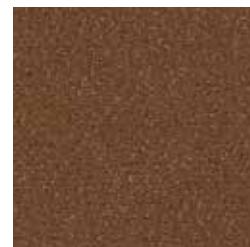
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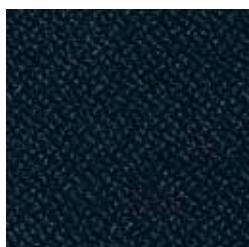
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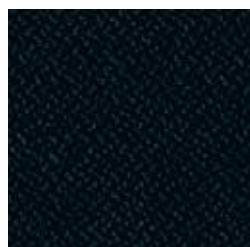
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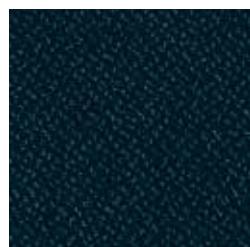
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LRV 3 L 22 578



LRV 5 L 28 550



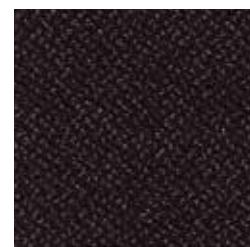
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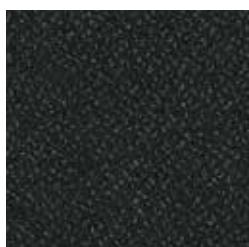
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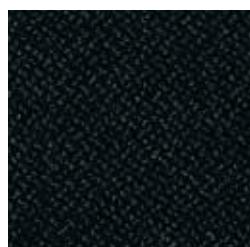
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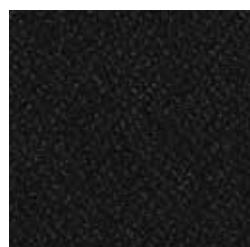
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LRV 6 L 29 921



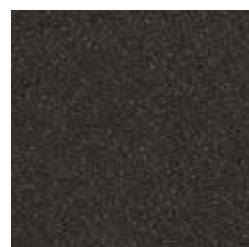
LRV 3 L 21 995



LRV 5 L 27 989



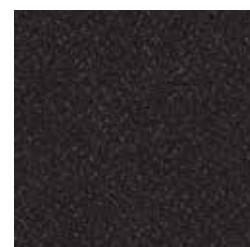
LRV 12 L 41 535



LRV 7 L 33 603



LRV 15 L 46 983



LRV 6 L 30 981

UNIQUE

32

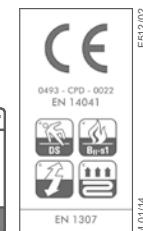
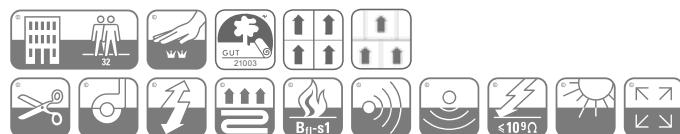
Technical datasheet

CONSTRUCTION	Tufted 1/10" Velours, COC	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6.6	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 750 g/m ²	THERMAL RESISTANCE	ISO 8302 0.060 m ² K/W
PILE ABOVE BACKING	Ca. 465 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.5 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.09 0.27 0.34 0.45
PILE HEIGHT	Ca. 4.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.116 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 255 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	21, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%

GUT-NR 21003

BRE ENP 428

LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.



F512/02 M 01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% PA 6.6
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeleveld, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria,
GUT-license number 21003.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 cc, A-rating – Eco point score 0.363
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: – 25.8%
MR4 Post-Industrial recycled content: 48.3%
MR4 Post-Consumer recycled content: 1.6%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours.
(see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



09

BLACK&



LRV 17 L 48 001



LRV 5 L 26 322



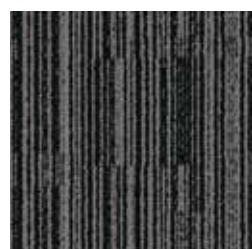
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LRV 7 L 32 662



LRV 5 L 26 609



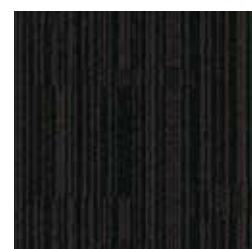
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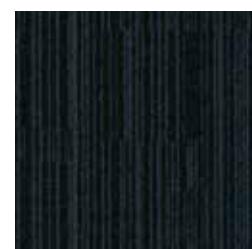
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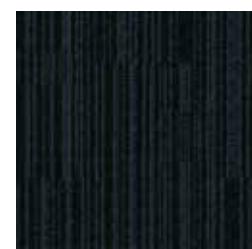
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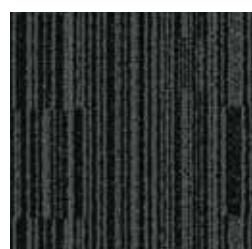
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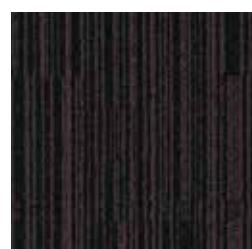
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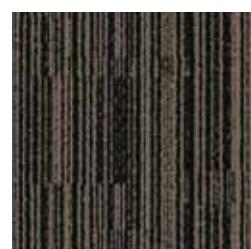
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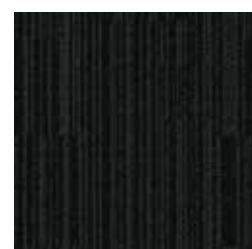
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LRV 3 L 21 822



LRV 8 L 34 102



LRV 4 L 23 991



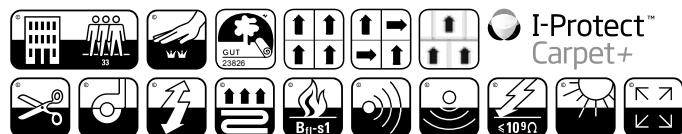
LRV < 3 L < 20 966



LRV 0 L 0 990

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 850 g/m ²	THERMAL RESISTANCE	ISO 8302 0.055 m ² K/W
PILE ABOVE BACKING	Ca. 422 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.07 0.22 0.33 0.44
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.121 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 154 440 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	17, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
ANTISOIL TREATED	I-Protect™ Carpet+	GUT-NR	23826
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®, Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



Sustainable datasheet

1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn
50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN
The yarn used to manufacture this product contains 3,5% recycled content.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 23826.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality

To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.

- Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
- modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance

To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact

BREEAM Rating Offices
Certificate ENP 428c, A-rating – Eco point score 0.375
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness

To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management

To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 24.7%
MR4 Post-Industrial recycled content: 46.3%
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

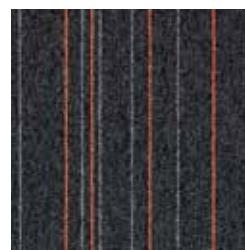
9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

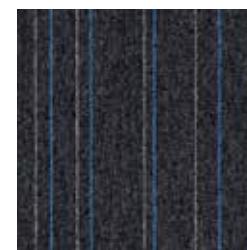


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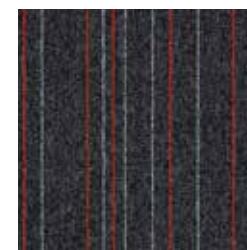
FIRST RADIANT



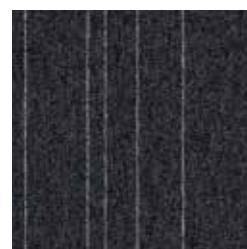
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LRV 3 L 21 504



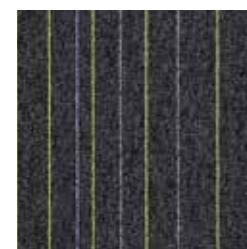
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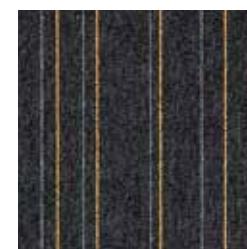
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LRV 3 L 21 410



LRV 4 L 23 609



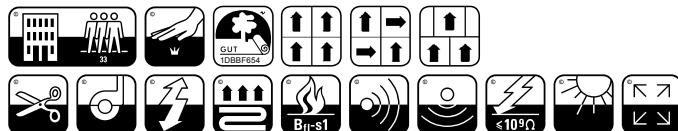
LRV 4 L 23 204

FIRST RADIANT

40

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m ²	THERMAL RESISTANCE	ISO 8302 0.047 m ² K/W
PILE ABOVE BACKING	Ca. 330 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10 ⁶ Ohm
TUFT DENSITY	Ca. 156 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	1DBBF654
		BRE	in request
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®, Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 01/14

Sustainable datasheet

1. RECYCLED CONTENT

- a. 54% Overall recycled content.
- b. Yarn
100% PA 6 Solution Dyed Aqualon
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 1DBBF654. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ai, A-rating - Eco point score 0.291.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 27.5%
MR4 Post-Industrial recycled content: 52.2%
MR4 Post-Consumer recycled content: 1.4%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

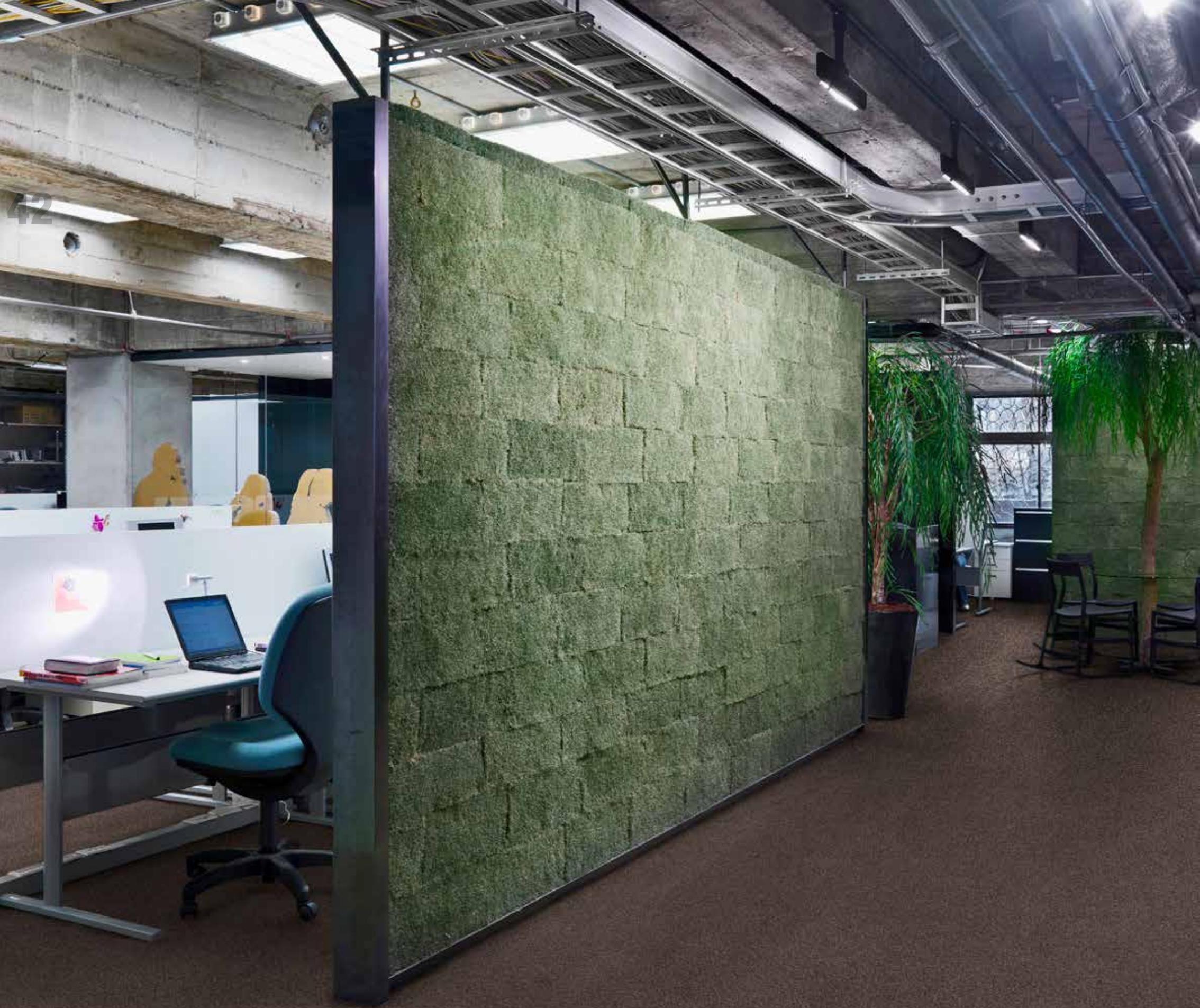
8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

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11

ECO100 C

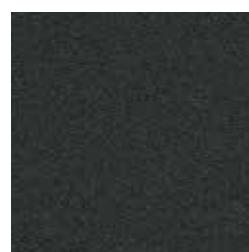
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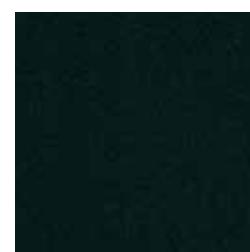
LRV 19 L 50 817



LRV 17 L 48 922



LRV 9 L 36 955



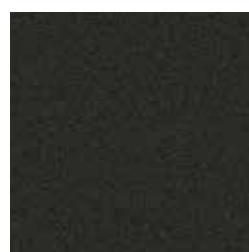
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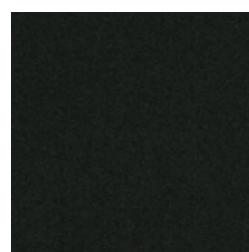
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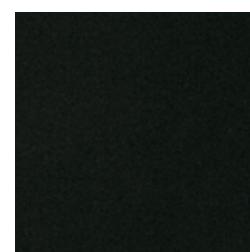
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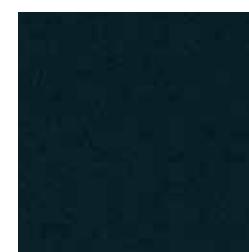
LRV 6 L 29 603



LRV 4 L 23 993



LRV < 3 L < 18 969



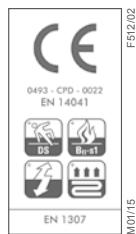
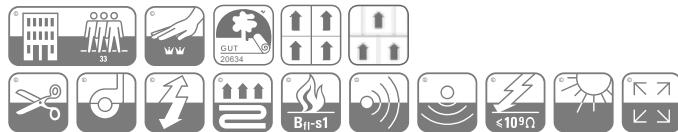
LRV 5 L 26 593

ECO100 C

44

Technical datasheet

CONSTRUCTION	Tufted 1/10" CUT Velours, plain	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 500 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 750 g/m ²	THERMAL RESISTANCE	ISO 8302 0.050 m ² K/W
PILE ABOVE BACKING	Ca. 500 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 43 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.03 0.07 0.11 0.23 0.37 0.37
PILE HEIGHT	Ca. 3.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.138 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ³ Ohm
TUFT DENSITY	Ca. 164 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	20634
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 66% Overall recycled content.
- Yarn
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulys® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulys® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulys® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulys®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 20634.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulys® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulys® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulys® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428h, A+ -rating – Eco point score 0.272
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 37.8%
MR4 Post-Industrial recycled content: 57.7%
MR4 Post-Consumer recycled content: 9.3%
- HQE (FR)
Haute Qualité Environnementale
In 2005 modulys® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- DGNB (DE)
German Sustainable Building Council
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification.
This product is verified by DGNB and features on the DGNB navigator, visit www.dgnb-navigator.de/company/products/modulys
- Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulys® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulys® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulys® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulys® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulys® carpet tiles are free from odours.
(see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

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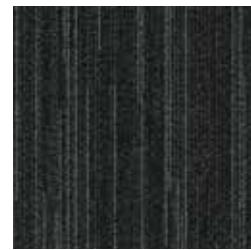
LINE-UP

47



LRV 7 L 31

562



LRV 6 L 29

995



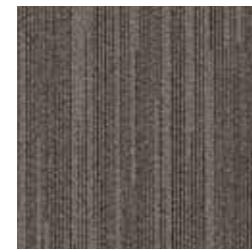
LRV 7 L 33

956



LRV 11 L 39

981



LRV 12 L 41

139



LRV 7 L 31

849

LINE-UP

48

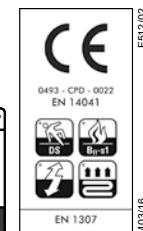
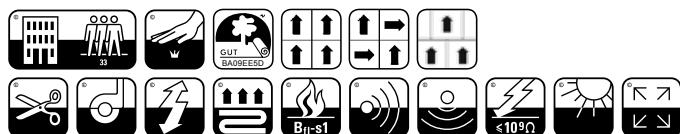
Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	PA 6 Solution Dyed + PA 6 Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 550 g/m ²	THERMAL RESISTANCE	ISO 8302 0.039 m ² K/W
PILE ABOVE BACKING	Ca. 309 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 33 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.03 0.02 0.05 0.16 0.26 0.35
PILE HEIGHT	Ca. 2.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.124 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 168 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%

GUT-NR BA09EE5D

BRE ENP 428

LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 52% Overall recycled content.
- b. Yarn
50% PA 6 Solution Dyed (5,8% recycled content) +
50% PA 6 Solution Dyed Space
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET,
originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the
secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium),
this allows us to reduce internal transportation and limits our CO₂
emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since
2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate
Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very
low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation
descriptions the waste for Carpet tiles is 3-4%. In comparison for
broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical
areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles
in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles
are converted into secondary fuel to reduce CO₂ emissions significantly. The
minerals are extracted from the carpet tiles and recycled into raw material
for the cement production industry, which results in 50% recycling of our
carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus,
GLP 1101 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number BA09EE5D.
These criteria include VOC thresholds, odour and chemical substances.
- d. REACH (EU)
modulyss® complies with the strict European REACH standards.

- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the
materials supplied do not contain any of the substances listed, nor is any of
these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljødata is a system of health and environmental assessment
of products in the construction and real estate businesses. The core of the
system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and
installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this
credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for
formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate
standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by
33 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428p, A-rating – Eco point score 0.299
To recognise and encourage the use of construction materials with a low environmental impact
(including embodied carbon) over the full life cycle of the building. For more information on the
Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and
landscape, therefore minimising the frequency of replacement and maximising materials
optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for
intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction
waste. This product can contribute to waste reduction on site. See item 3, installation,
for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting
materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring
systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled
materials). Products are not reviewed under LEED®, LEED® credit
requirements cover the performance of materials in aggregate, not the
performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 26.8%
MR4 Post-Industrial recycled content: 50.6%
MR4 Post-Consumer recycled content: 1.5%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in
accordance with NF P01 010. This product can contribute to seven of the
13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages
sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated
from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation.
The park has a capacity of 467500 kWh, delivering 11% of our total
electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production
with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our
electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of
natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed
for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into
new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9%
and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is
solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful
substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours.
(see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise
by 33 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect
as result.



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CAMBRIDGE

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LRV 8 L 33 482



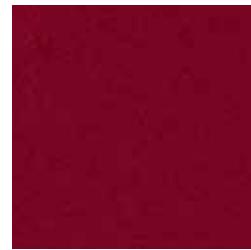
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LRV 15 L 45 322



LRV 8 L 33 307



LRV 5 L 27 316



LRV 3 L 20 346



LRV 7 L 33 314



LRV 7 L 31 463



LRV 22 L 54 386



LRV 17 L 49 224



LRV 22 L 54 213



LRV 17 L 48 662



LRV 14 L 44 601



LRV 8 L 34 613



LRV 4 L 24 616



LRV 19 L 51 181



LRV 20 L 51 817



LRV 12 L 41 915



LRV 11 L 39 506



LRV 9 L 36 579



LRV 7 L 32 684



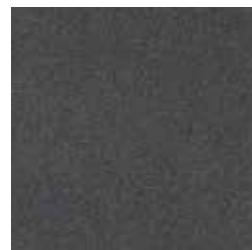
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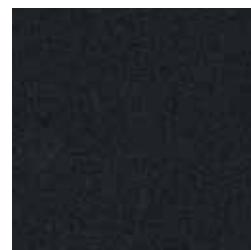
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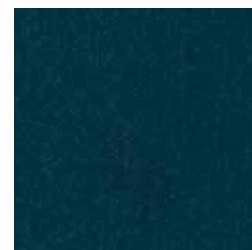
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LRV 10 L 38 994



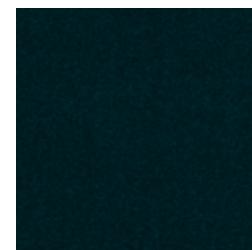
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LRV 6 L 29 504



LRV 10 L 38 569



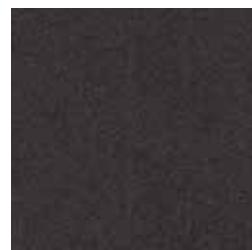
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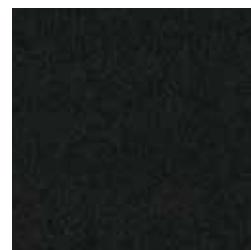
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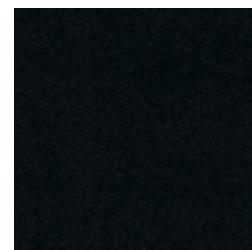
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LRV 5 L 25 907



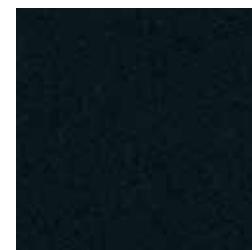
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LRV 2 L 14 991



LRV 7 L 31 595



LRV 3 L 18 592

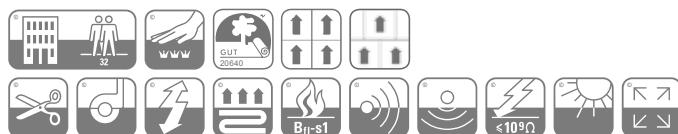
Go to page 79 for the XTRA CAMBRIDGE colour palette and go to page 95 for the WHITE&BLACK CAMBRIDGE colour palette.

CAMBRIDGE

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Frisé	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 650 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 1 050 g/m ²	THERMAL RESISTANCE	ISO 8302 0.071 m ² K/W
PILE ABOVE BACKING	Ca. 728 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 43 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 8.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.02 0.02 0.09 0.27 0.38 0.51
PILE HEIGHT	Ca. 5.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ³ Ohm
TUFT DENSITY	Ca. 181 102 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC3	NUMBER OF COLOURS	36, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	20640
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. Yarn
100% PA 6.6 Antron®
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeel, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 20640.
These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428d, A-rating – Eco point score 0.415
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC3 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 25.2%
MR4 Post-Industrial recycled content: 47.6%
MR4 Post-Consumer recycled content: 1.5%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

PERPETUAL 965, XTRA PERPETUAL 60F, 65F

15

PERPETUAL

55



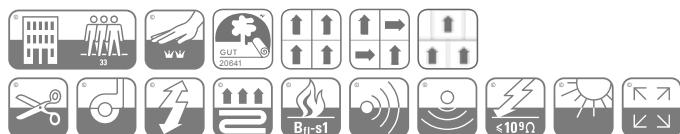
Go to page 79 for the XTRA PERPETUAL colour palette.

PERPETUAL

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% Polyamide	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m ²	THERMAL RESISTANCE	ISO 8302 0.057 m ² K/W
PILE ABOVE BACKING	Ca. 450 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 38 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.9 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.08 0.23 0.30 0.40
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.128 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 104 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	24, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	20641
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02 M01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% Polyamide 6 Alto
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 20641.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428u, A-rating – Eco point score 0.331
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 27.3%
MR4 Post-Industrial recycled content: 51.3%
MR4 Post-Consumer recycled content: 1.6%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- DGNB (DE)
German Sustainable Building Council
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit www.dgnb-navigator.de/company/products/modulyss

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
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8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
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All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



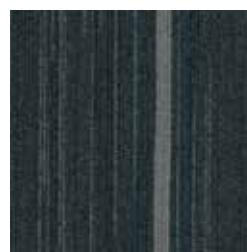
**modu
lyss®**

SHINE-UP 956

16

SHINE-UP

59



LRV 10 L 37

562



LRV 10 L 38

995



LRV 13 L 43

956



LRV 11 L 39

981



LRV 15 L 46

139



LRV 11 L 39

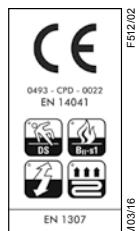
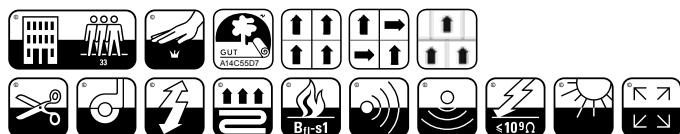
849

SHINE-UP

60

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	PA 6 Solution Dyed + PA 6 Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 660 g/m ²	THERMAL RESISTANCE	ISO 8302 0.040 m ² K/W
PILE ABOVE BACKING	Ca. 360 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.05 0.18 0.26 0.33
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.129 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 168 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	A14C55D7
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 51% Overall recycled content.
- Yarn
50% PA 6 Solution Dyed (6% recycled content)
+ 50% PA 6 Solution Dyed Space
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number A14C55D7. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality

To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.

- Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
- modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance

To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact

BREEAM Rating Offices
Certificate ENP 428x, A-rating – Eco point score 0.318
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness

To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management

To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 26.2%
MR4 Post-Industrial recycled content: 49.3%
MR4 Post-Consumer recycled content: 1.5%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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REVERSE100

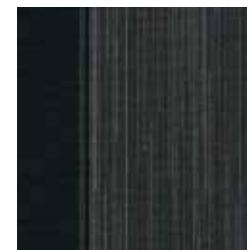
63



LRV 8 L 35 90U



LRV 6 L 30 80U



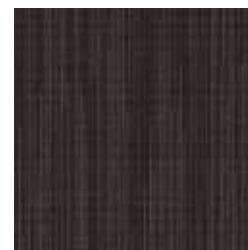
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LRV 5 L 27 95U



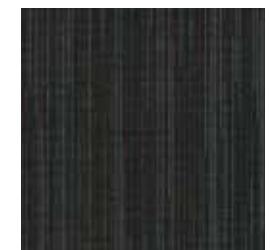
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LRV 8 L 34 81U



LRV 11 L 39 51U



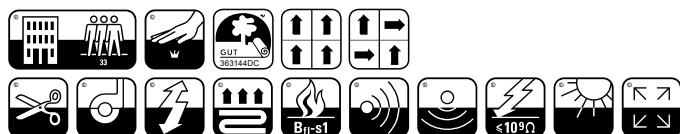
LRV 8 L 34 96U

REVERSE100

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Technical datasheet

CONSTRUCTION	Minituft® 5/64" loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% ECONYL® yarn Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 650 g/m ²	THERMAL RESISTANCE	ISO 8302 0.032 m ² K/W
PILE ABOVE BACKING	Ca. 183 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 23 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.05 0.17 0.24 0.30
PILE HEIGHT	Ca. 0.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.228 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 190 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	8
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	363144DC
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 62% Overall recycled content.
- Yarn
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon + Recycled Solution Dyed Space
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 363144DC.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428v, A⁺-rating – Eco point score 0.26
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 34.8%
MR4 Post-Industrial recycled content: 54.0%
MR4 Post-Consumer recycled content: 7.8%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

NORMAL 155, NEW NORMAL 136

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NORMAL | NEW NORMAL

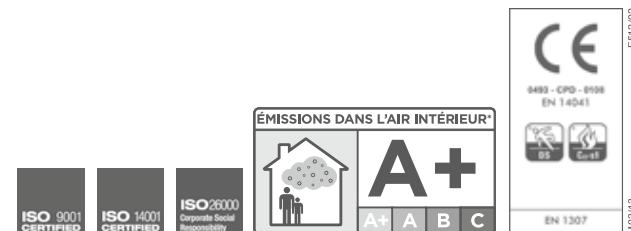


NORMAL | NEW NORMAL

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Technical datasheet

	NORMAL	NEW NORMAL		NORMAL	NEW NORMAL
CONSTRUCTION	Tufted 1/10" Loop	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 C _{fl} -s1	EN 13501-1 C _{fl} -s1
PILE MATERIAL	100% Polyolefine	8% PA space dyed + 92% Polyolefine	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 100 g/m ²	Ca. 4 100 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 580 g/m ²	Ca. 580 g/m ²	THERMAL RESISTANCE	ISO 8302 0.045 m ² K/W	ISO 8302 0.045 m ² K/W
PILE ABOVE BACKING	Ca. 340 g/m ²	Ca. 340 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 39 dB (1 000 Hz)	ISO 10140 ΔL 39 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.2 mm	Ca. 6.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.03 0.07 0.19 0.29 0.33	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.03 0.07 0.19 0.29 0.33
PILE HEIGHT	Ca. 3.4 mm	Ca. 3.4 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.100 g/cm ³	Ca. 0.100 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ¹² Ohm	ISO/DIS 10965 ≤10 ¹² Ohm
TUFT DENSITY	Ca. 156 000 /m ²	Ca. 156 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 31 - LC1	EN 1307 31 - LC1	NUMBER OF COLOURS	6	12
CASTOR CHAIR SUITABILITY	EN 985 B: occasional use	EN 985 B: occasional use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%	EN 986 Max. 0.2%
			GUT-NR	22555	22555



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 55% (NORMAL) – 53% (NEW NORMAL) Overall recycled content.
- b. Yarn
NORMAL: 100% Polyolefine
NEW NORMAL: 8% PA Space Dyed + 92% Polyolefine
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 22555.
These criteria include VOC thresholds, odour and chemical substances.
- b. REACH (EU)
modulyss® complies with the strict European REACH standards.
- c. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 27.1%
MR4 Post-Industrial recycled content: 51.1%
MR4 Post-Consumer recycled content: 1.5%

- b. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours.
(see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

FIRST 990, FIRST LINES 971

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FIRST LINES

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LRV 25 L 57 176



LRV 26 L 57 181



LRV 9 L 37 811



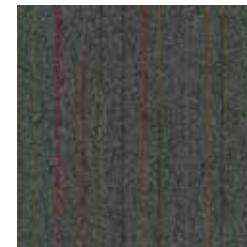
LRV 7 L 31 856



LRV 17 L 49 996



LRV 18 L 49 901



LRV 10 L 38 916



LRV 12 L 41 921



LRV 8 L 32 556



LRV 8 L 32 571



LRV 5 L 27 576



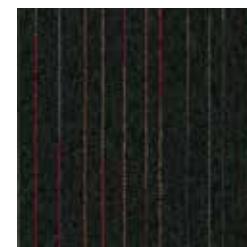
LRV 7 L 32 581



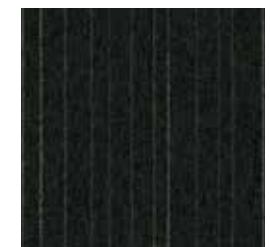
LRV 4 L 22 546



LRV 4 L 23 541



LRV 4 L 22 966



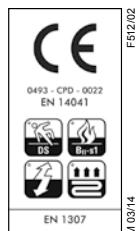
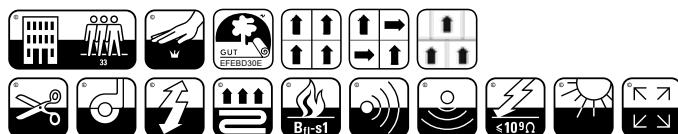
LRV 4 L 23 971

FIRST LINES

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	92% PA 6 Solution Dyed Aqualon + 8% PA 6 Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m ²	THERMAL RESISTANCE	ISO 8302 0.047 m ² K/W
PILE ABOVE BACKING	Ca. 330 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 156 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	16
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	EFEBD30E
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02
M 03/14

Sustainable datasheet

1. RECYCLED CONTENT

- 52% Overall recycled content.
- Yarn
92% PA 6 Solution Dyed Aqualon + 8% PA Space Dyed
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeleveld, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number EFEBD30E. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428k, A-rating – Eco point score 0.294
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 26.6%
MR4 Post-Industrial recycled content: 50.5%
MR4 Post-Consumer recycled content: 1.4%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



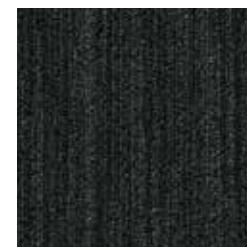
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IN-GROOVE

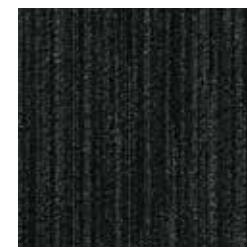
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LRV 5 L 25 834



LRV 5 L 26 942



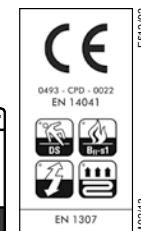
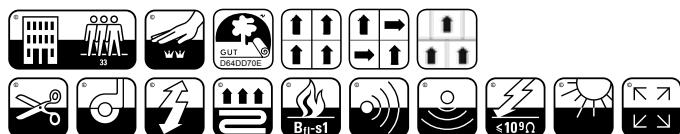
LRV 4 L 24 966

IN-GROOVE

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 700 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 740 g/m ²	THERMAL RESISTANCE	ISO 8302 0.050 m ² K/W
PILE ABOVE BACKING	Ca. 418 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.05 0.18 0.25 0.32
PILE HEIGHT	Ca. 3.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.116 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 158 500 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	3
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
GUI CERTIFICATE		GUT-NR	D64DD70E
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M02/13

Sustainable datasheet

1. RECYCLED CONTENT

- a. 52% Overall recycled content.
- b. Yarn
100% PA 6 Aqualon HD
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number D64DD70E. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 4280, A-rating – Eco point score 0.331
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 26.5%
MR4 Post-Industrial recycled content: 50.3%
MR4 Post-Consumer recycled content: 1.4%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.
- e. Fine dust – indoor air quality
In reference to Hard floorcoverings modulyss® carpet tiles decrease the concentration of fine dust indoor with a factor 2.7.



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XTRA

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LRV 6 L 30 CAMBRIDGE 30F



LRV 3 L 20 CAMBRIDGE 45F



LRV 6 L 28 CAMBRIDGE 55F



LRV 10 L 38 CAMBRIDGE 65F



LRV 19 L 51 CAMBRIDGE 21F



LRV 15 L 45 CAMBRIDGE 25F



LRV 4 L 23 CAMBRIDGE 41F



LRV 6 L 29 CAMBRIDGE 50F



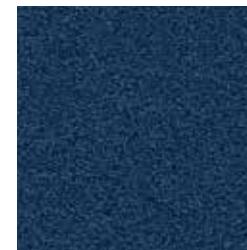
LRV 17 L 48 CAMBRIDGE 60F



LRV 6 L 29 PERPETUAL 30F



LRV 4 L 23 PERPETUAL 45F



LRV 6 L 31 PERPETUAL 55F



LRV 9 L 36 PERPETUAL 65F



LRV 16 L 46 PERPETUAL 21F



LRV 11 L 39 PERPETUAL 25F



LRV 5 L 28 PERPETUAL 41F



LRV 6 L 32 PERPETUAL 50F



LRV 13 L 43 PERPETUAL 60F



LRV 6 L 30 STEP 30F



LRV 6 L 28 STEP 45F



LRV 7 L 31 STEP 55F



LRV 9 L 37 STEP 65F



LRV 19 L 50 STEP 21F



LRV 12 L 41 STEP 25F



LRV 6 L 29 STEP 41F



LRV 8 L 33 STEP 50F



LRV 16 L 47 STEP 60F

Go to page 23 for the colour palette of STEP, to page 51 for CAMBRIDGE and to page 55 for PERPETUAL.

Please find the technical datasheets of XTRA on the following pages:

	Page
Step	24
Cambridge	52
Perpetual	56

Sustainable datasheet

Please find the sustainable datasheets of XTRA on the following pages:

	Page
Step	25
Cambridge	53
Perpetual	57

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FIRST ABSOLUTE 912

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FIRST ABSOLUTE



LRV 23 L 55 181



LRV 42 L 14 136



LRV 26 L 58 912



LRV 8 L 34 519



LRV 41 L 12 801



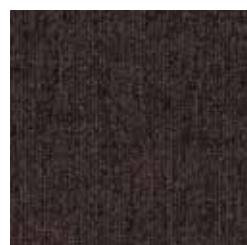
LRV 34 L 8 972



LRV 11 L 40 930



LRV 6 L 29 520



LRV 5 L 26 809



LRV 6 L 30 993



LRV 30 L 6 965



LRV 4 L 24 575

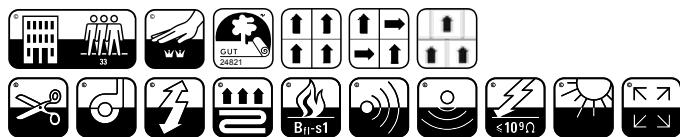
Go to page 95 for the WHITE&BLACK FIRST ABSOLUTE colour palette.

FIRST ABSOLUTE

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 500 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 730 g/m ²	THERMAL RESISTANCE	ISO 8302 0.075 m ² K/W
PILE ABOVE BACKING	Ca. 420 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 39 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.09 0.22 0.34 0.42
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.120 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 186 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	24821
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 06/16

Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. Yarn
100% PA 6 Solution Dyed Aqualon
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 24821.
These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428j, A-rating – Eco point score 0.324
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 26.5%
MR4 Post-Industrial recycled content: 49.7%
MR4 Post-Consumer recycled content: 1.7%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. DGNB (DE)
German Sustainable Building Council
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit www.dgnb-navigator.de/company/products/modulyss

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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METALLIC



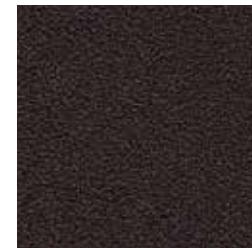
LRV 5 L 20 983



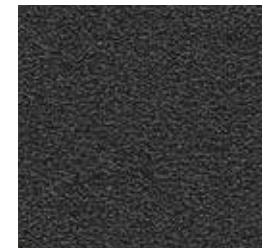
LRV 13 L 43 823



LRV 9 L 35 213



LRV 7 L 32 280



LRV 11 L 39 965



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LRV 16 L 48 200



LRV 16 L 47 322



LRV 19 L 50 907



LRV 15 L 46 669



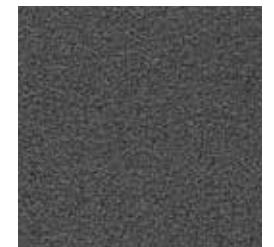
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LRV 6 L 30 822



LRV 7 L 33 316



LRV 4 L 13 961



LRV 8 L 34 684



LRV 10 L 38 604



LRV 7 L 32 352



LRV 7 L 31 314



LRV 9 L 37 994



LRV 7 L 32 550



LRV 11 L 39 579



LRV 6 L 30 513



LRV 5 L 27 541



LRV 5 L 28 990

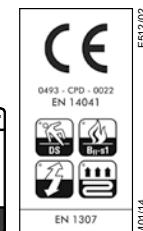
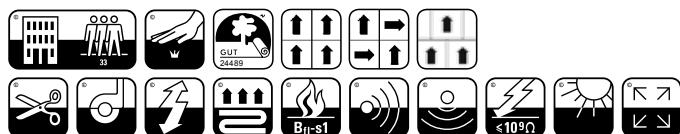
Go to page 95 for the WHITE&BLACK METALLIC colour palette.

METALLIC

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6.6 Antron® Brilliance™	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m ²	THERMAL RESISTANCE	ISO 8302 0.041 m ² K/W
PILE ABOVE BACKING	Ca. 400 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.08 0.21 0.27 0.35
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.143 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 109 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	25, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	24489
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M01/14

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% PA 6.6 Antron® Brilliance™
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 24489.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428q, A-rating – Eco point score 0.349
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 25.8%
MR4 Post-Industrial recycled content: 47.7%
MR4 Post-Consumer recycled content: 1.9%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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CONVERSE100

91



LRV 13 L 43

932



LRV 9 L 35

907



LRV 6 L 30

920



LRV 9 L 35

823



LRV 7 L 32

519



LRV 4 L 22

569



LRV 4 L 22

965



LRV 7 L 31

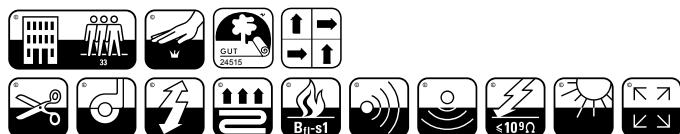
830

CONVERSE100

92

Technical datasheet

CONSTRUCTION	Minituft® 5/64" loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 200 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 480 g/m ²	THERMAL RESISTANCE	ISO 8302 0.076 m ² K/W
PILE ABOVE BACKING	Ca. 176 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 10 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.03 0.05 0.17 0.28 0.28
PILE HEIGHT	Ca. 0.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.220 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 205 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	8
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	24515
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 62% Overall recycled content.
- b. Yarn
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 24515. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 10 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428g, A+ -rating – Eco point score 0.247
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 33.9%
MR4 Post-Industrial recycled content: 55.4%
MR4 Post-Consumer recycled content: 6.2%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 10 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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WHITE&BLACK



LRV 52 L 77 CAMBRIDGE 039



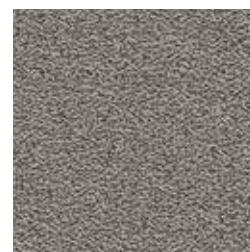
LRV 17 L 48 BLACK& 001



LRV 31 L 63 GRIND 130



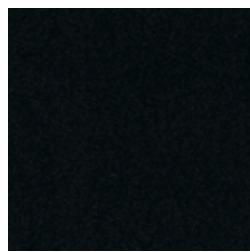
LRV 30 L 62 ON-LINE 039



LRV 28 L 60 METALLIC 039



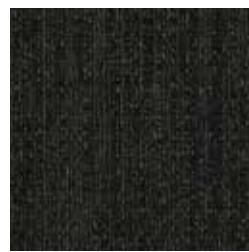
LRV 23 L 56 FIRST ABSOLUTE 039



LRV 2 L 14 CAMBRIDGE 991



LRV 0 L 0 BLACK& 990



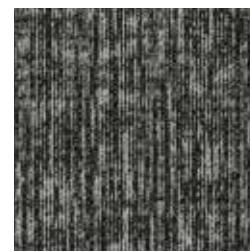
LRV 5 L 24 GRIND 966



LRV 10 L 37 ON-LINE 991



LRV 5 L 28 METALLIC 997



LRV 14 L 44 FIRST ABSOLUTE 990

WHITE&BLACK

96

Technical datasheet

Please find the technical datasheets of WHITE&BLACK on the following pages:

	Page
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Black&	36
Grind	168
On-line	16-20
Metallic	88
First Absolute	84

Sustainable datasheet

Please find the sustainable datasheets of WHITE&BLACK on the following pages:

	Page
Cambridge	53
Black&	37
Grind	169
On-line	17-21
Metallic	89
First Absolute	85



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ALTERNATIVE100



LRV 12 L 41

312



LRV 16 L 47

181



LRV 17 L 48

140



LRV 11 L 39

823



LRV 7 L 32

929



LRV 4 L 22

592



LRV 11 L 39

535



LRV 12 L 41

511



LRV 7 L 31

989



LRV 5 L 26

965



LRV 7 L 32

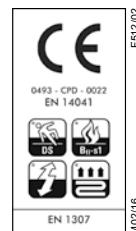
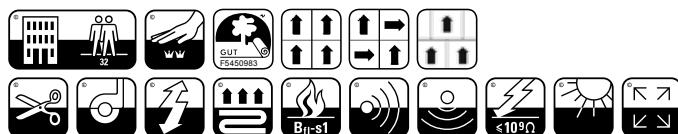
900

ALTERNATIVE100

100

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop Tip Sheared	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Space Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 800 g/m ²	THERMAL RESISTANCE	ISO 8302 0.064 m ² K/W
PILE ABOVE BACKING	Ca. 460 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 33 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.5 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.06 0.16 0.29 0.36
PILE HEIGHT	Ca. 3.4 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.135 g/m ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 206 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	11
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	F5450983
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 66% Overall recycled content.
- Yarn
100% ECONYL® Aquafil - 100% Recycled Space Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number F5450983. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428b, A+ -rating – Eco point score 0.264
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 38.2%
MR4 Post-Industrial recycled content: 56.1%
MR4 Post-Consumer recycled content: 10.1%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



30

FIRST STRIPES

103



LRV 14 L 45 909



LRV 10 L 37 929



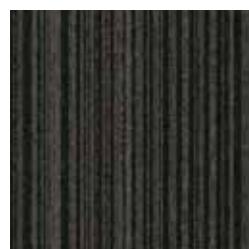
LRV 6 L 28 942



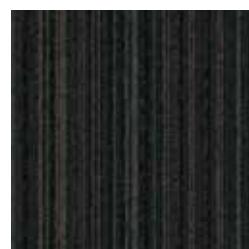
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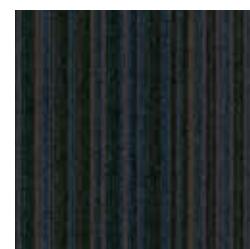
LRV 10 L 38 883



LRV 5 L 27 989



LRV 4 L 23 965



LRV 4 L 24 572



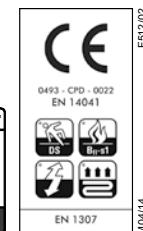
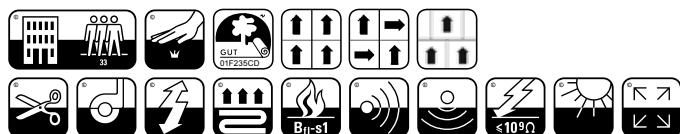
LRV 8 L 34 521

FIRST STRIPES

104

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m ²	THERMAL RESISTANCE	ISO 8302 0.047 m ² K/W
PILE ABOVE BACKING	Ca. 330 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/m ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 156 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	9
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	01F235CD
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed Aqualon
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 01F235CD.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 4281, A-rating – Eco point score 0.294
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 27.5%
MR4 Post-Industrial recycled content: 52.2%
MR4 Post-Consumer recycled content: 1.4%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

106

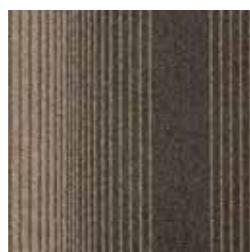
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lyss®**

FIRST WAVES 997

31

FIRST WAVES

107



LRV 15 L 45

123



LRV 9 L 36

843



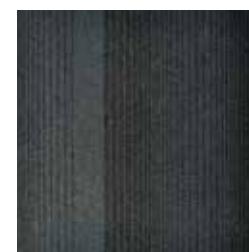
LRV 11 L 39

911



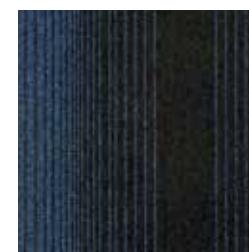
LRV 9 L 36

997



LRV 4 L 22

966



LRV 3 L 20

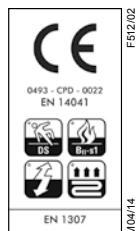
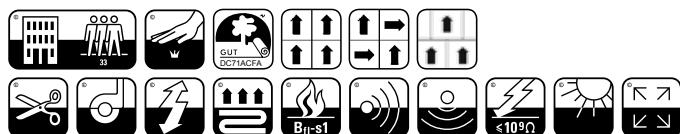
523

FIRST WAVES

108

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m ²	THERMAL RESISTANCE	ISO 8302 0.047 m ² K/W
PILE ABOVE BACKING	Ca. 330 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/m ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 156 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	DC71ACFA
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02
M06/14

Sustainable datasheet

1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed Aqualon
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number DC71ACFA. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428m, A-rating – Eco point score 0.294
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 27.5%
MR4 Post-Industrial recycled content: 52.2%
MR4 Post-Consumer recycled content: 1.4%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

110



**modu
lyss®**

FIRST BLOCKS 912

32

FIRST BLOCKS

111



LRV 5 L 26

575



LRV 6 L 29

993



LRV 16 L 47

930



LRV 35 L 66

912



LRV 21 L 53

181



LRV 5 L 28

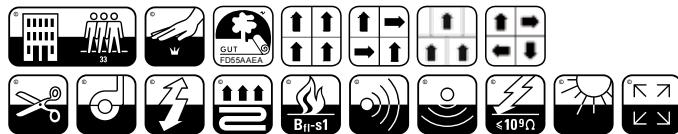
809

FIRST BLOCKS

112

Technical datasheet

CONSTRUCTION	Tufted 1/12" loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 600 g/m ²	THERMAL RESISTANCE	ISO 8302 0.064 m ² K/W
PILE ABOVE BACKING	Ca. 335 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.01 0.06 0.18 0.27 0.37
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.108 g/m ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 174 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
		GUT-NR	FD55AAEA
		LEED®	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. Yarn
100% PA 6 Solution Dyed Aqualon
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number FD55AAEA. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ah, A-rating - Eco point score 0.308.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 26.2%
MR4 Post-Industrial recycled content: 49.1%
MR4 Post-Consumer recycled content: 1.7%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

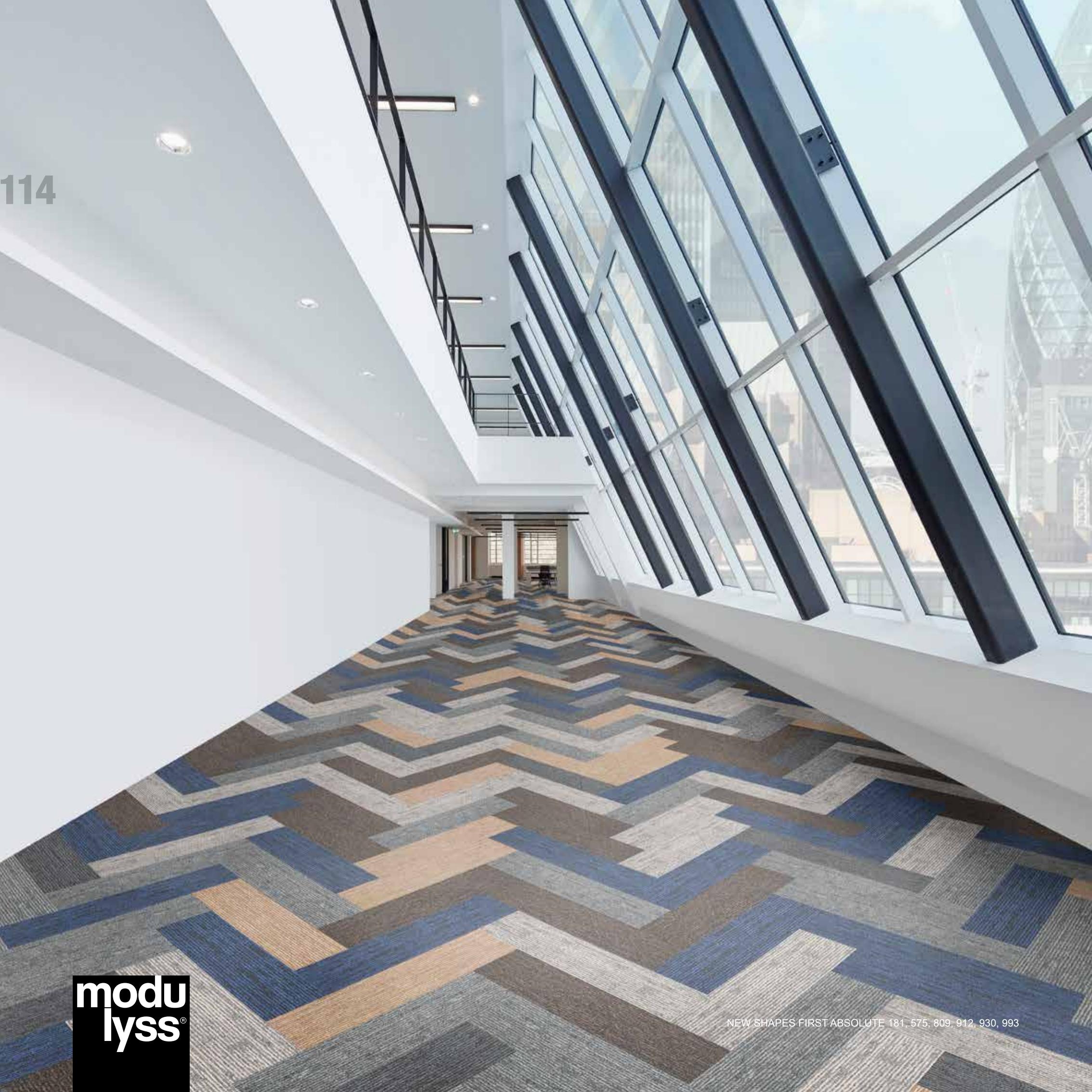
- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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NEW SHAPES

FIRST ABSOLUTE 25x100



XTRA CAMBRIDGE 25x100



ALTERNATIVE100 25x100



NEW SHAPES

116 Technical datasheet

Please find the technical datasheets of ALTERNATIVE100, FIRST ABSOLUTE and XTRA CAMBRIDGE on the following pages:

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Alternative100	100
First Absolute	84
Cambridge	52

Sustainable datasheet

Please find the sustainable datasheets of ALTERNATIVE100, FIRST ABSOLUTE and XTRA CAMBRIDGE on the following pages:

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Alternative100	101
First Absolute	85
Cambridge	53

PURE AIR100

GUI Gold Certificat



PM10 & PM2.5



Beauty & Function

- 7 COLOURS
- MIX & MATCH
- INFINITE DESIGN POSSIBILITIES



ECONYL® 100% REGENERATED, STURDY, THICK, CAPTURES AND RETAINS PM

modulyss

Average time spent: **85% indoors**

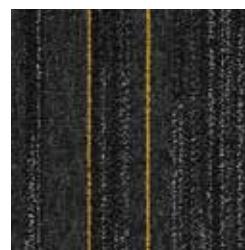


CARPET TILES FOR HEALTHY INDOORS

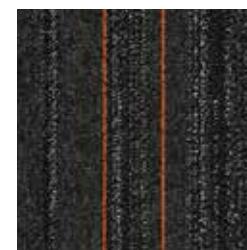
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PURE AIR100

119



LRV 4 L 24 224



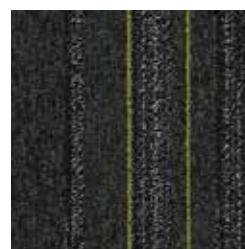
LRV 4 L 22 322



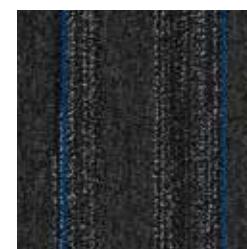
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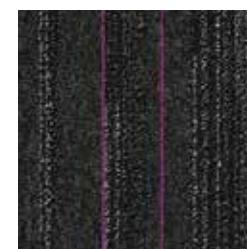
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LRV 4 L 22 609



LRV 4 L 23 504



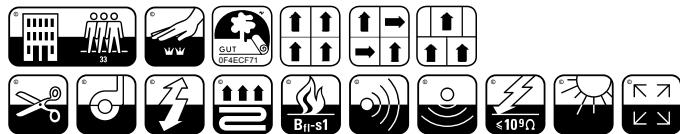
LRV 3 L 22 314

PURE AIR100

120

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 ECONYL® yarn + Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 700 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m ²	THERMAL RESISTANCE	ISO 8302 0.065 m ² K/W
PILE ABOVE BACKING	Ca. 402 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.05 0.15 0.25 0.30
PILE HEIGHT	Ca. 3.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.134 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 180 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	0F4ECF71 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .
GUI CERTIFICATE	Gold Standard 		



F512/02
M04/16

Sustainable datasheet

1. RECYCLED CONTENT

- a. 66% Overall recycled content.
- b. Yarn
100% PA 6 ECONYL® yarn - 100% Recycled Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 0F4ECF71. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.

- Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
- modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ak, A+ -rating - Eco point score 0.26.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 37.5%
MR4 Post-Industrial recycled content: 57.7%
MR4 Post-Consumer recycled content: 8.6%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)
Environmental Choice of New Zealand
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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DSGN CLOUD

123



LRV 19 L 51 101



LRV 20 L 52 181



LRV 12 L 40 136



LRV 25 L 57 912



LRV 7 L 32 342



LRV 13 L 43 823



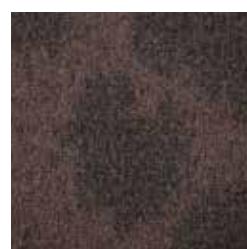
LRV 8 L 32 989



LRV 11 L 40 930



LRV 5 L 24 575



LRV 5 L 26 809



LRV 6 L 28 993



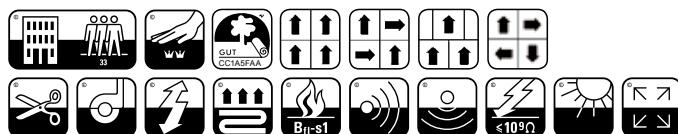
LRV 7 L 31 965

DSGN CLOUD

124

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 680 g/m ²	THERMAL RESISTANCE	ISO 8302 0.070 m ² K/W
PILE ABOVE BACKING	Ca. 420 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 42 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.03 0.06 0.18 0.31 0.39
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 193 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	CC1A5FAA Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed Nylon
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number CC1A5FAA. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ag, A-rating - Eco point score 0.325.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 25.9%
MR4 Post-Industrial recycled content: 48.5%
MR4 Post-Consumer recycled content: 0%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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DSGN TWEED

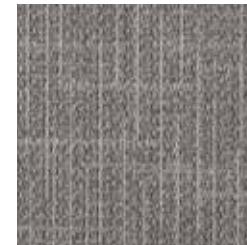
127



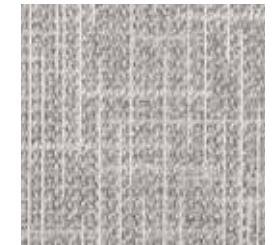
LRV 19 L 51 101



LRV 17 L 48 181



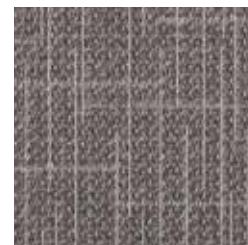
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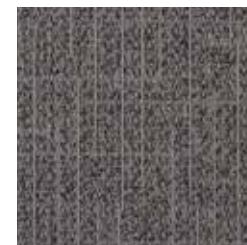
LRV 25 L 57 912



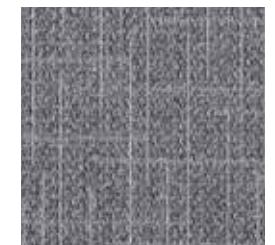
LRV 7 L 32 342



LRV 11 L 40 823



LRV 8 L 34 989



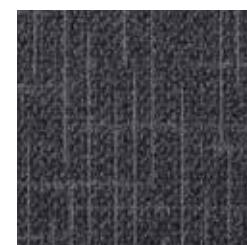
LRV 12 L 40 930



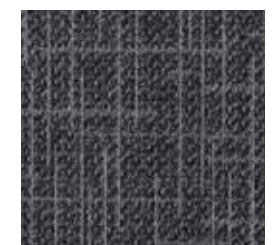
LRV 4 L 23 575



LRV 5 L 26 809



LRV 5 L 26 993



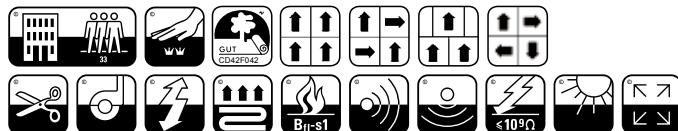
LRV 6 L 28 965

DSGN TWEED

128

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 680 g/m ²	THERMAL RESISTANCE	ISO 8302 0.070 m ² K/W
PILE ABOVE BACKING	Ca. 420 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 43 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.05 0.06 0.17 0.29 0.37
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 221 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	CD42F042 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed Nylon
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number CD42F042. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ag, A-rating - Eco point score 0.325.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 25.9%
MR4 Post-Industrial recycled content: 48.5%
MR4 Post-Consumer recycled content: 0%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
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8. PRODUCTION PROCESS

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modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
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Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
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Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
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All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

DSGN TRACK 912

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DSGN TRACK

131



LRV 20 L 52 101



LRV 19 L 51 181



LRV 14 L 44 136



LRV 28 L 60 912



LRV 8 L 32 342



LRV 12 L 40 823



LRV 9 L 35 989



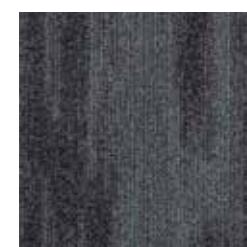
LRV 15 L 45 930



LRV 5 L 25 575



LRV 5 L 26 809



LRV 6 L 27 993



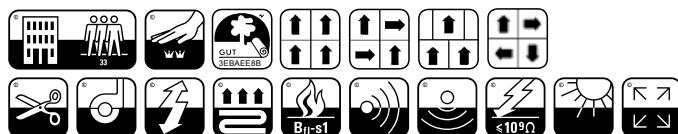
LRV 6 L 29 965

DSGN TRACK

132

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 680 g/m ²	THERMAL RESISTANCE	ISO 8302 0.064 m ² K/W
PILE ABOVE BACKING	Ca. 420 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 42 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.9 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.01 0.07 0.19 0.31 0.40
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 183 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3EBAEE8B Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 50% Overall recycled content.
- b. Yarn
100% PA 6 Solution Dyed Nylon
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3EBAEE8B. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ag, A-rating - Eco point score 0.325.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 25.9%
MR4 Post-Industrial recycled content: 48.5%
MR4 Post-Consumer recycled content: 0%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.



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OPPOSITE

135



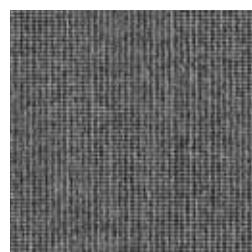
LRV 7 L 31

942



LRV 7 L 30

579



LRV 17 L 48

915



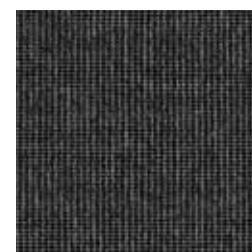
LRV 16 L 47

817



LRV 14 L 44

907



LRV 8 L 33

983



LRV 4 L 21

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LRV 4 L 22

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LRV 12 L 41

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LRV 9 L 36

847



LRV 5 L 26

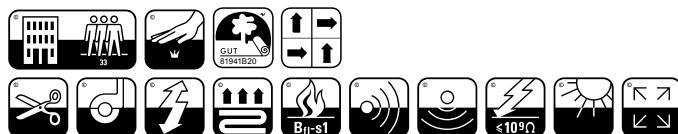
989

OPPOSITE

136

Technical datasheet

CONSTRUCTION	Minituft® 5/64" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 Solution Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 500 g/m ²	THERMAL RESISTANCE	ISO 8302 0.048 m ² K/W
PILE ABOVE BACKING	Ca. 170 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 11 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.9 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.02 0.05 0.12 0.24 0.27
PILE HEIGHT	Ca. 1.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.155 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 200 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	11
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	81941B20 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. Yarn
100% PA 6 Solution Dyed.
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 81941B20.
These criteria include VOC thresholds, odour and chemical substances

- d. REACH (EU)
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 11 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Opposite but please note that a similar product has obtained an Ecopoint score of 0.30 and is A-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 24.3%
MR4 Post-Industrial recycled content: 24.3%
MR4 Post-Consumer recycled content: 0%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

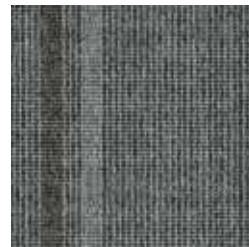
- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 11 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.



40

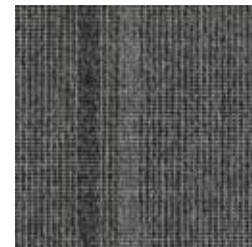
OPPOSITE LINES

139



LRV 17 L 48

915



LRV 14 L 44

907



LRV 16 L 47

817



LRV 7 L 31

942



LRV 8 L 33

983



LRV 9 L 36

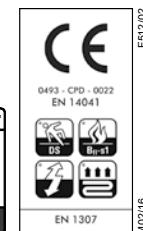
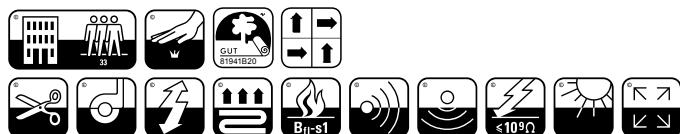
847

OPPOSITE LINES

140

Technical datasheet

CONSTRUCTION	Minituft® 5/64" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 500 g/m ²	THERMAL RESISTANCE	ISO 8302 0.048 m ² K/W
PILE ABOVE BACKING	Ca. 170 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 11 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.9 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.02 0.05 0.12 0.24 0.27
PILE HEIGHT	Ca. 1.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.155 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 ⁹ Ohm
TUFT DENSITY	Ca. 200 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	81941B20 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

1. RECYCLED CONTENT

- 49% Overall recycled content.
- Yarn
100% PA 6 Solution Dyed.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
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Building Research Establishment.
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To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 11 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

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WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 24.3%
MR4 Post-Industrial recycled content: 24.3%
MR4 Post-Consumer recycled content: 0%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
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- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitumen
For the bitumenbacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 11 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

PIXEL 957, PATTERN 957

41

PIXEL

143



LRV 16 L 47

957



LRV 17 L 48

610



LRV 6 L 29

830



LRV 5 L 27

965



LRV 7 L 32

592

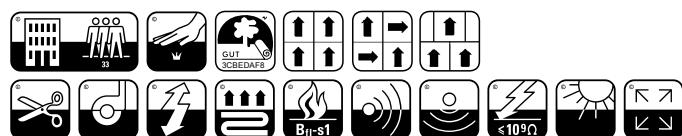


LRV 8 L 33

351

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop, printed	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 IMPREL	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 605 g/m ²	THERMAL RESISTANCE	ISO 8302 0.063 m ² K/W
PILE ABOVE BACKING	Ca. 372 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 32 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.06 0.15 0.28 0.31
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.120 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 218 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3CBEDAF8 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



Sustainable datasheet

1. RECYCLED CONTENT

- 49% Overall recycled content.
- Yarn
100% PA 6 IMPREL.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3CBEDAF8. These criteria include VOC thresholds, odour and chemical substances

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 32 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Opposite but please note that a similar product has obtained an Ecopoint score of 0.35 and is A-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 24.5%
MR4 Post-Industrial recycled content: 24.5%
MR4 Post-Consumer recycled content: 0%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 32 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

PATCHWORK 592, 965

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PATCHWORK

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LRV 18 L 50

957



LRV 19 L 50

610



LRV 8 L 34

830



LRV 8 L 33

965



LRV 6 L 29

592



LRV 7 L 32

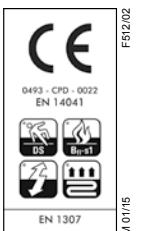
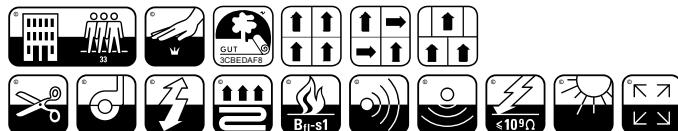
351

PATCHWORK

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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop, printed	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 IMPREL	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 605 g/m ²	THERMAL RESISTANCE	ISO 8302 0.063 m ² K/W
PILE ABOVE BACKING	Ca. 372 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 32 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.06 0.15 0.28 0.31
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.120 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 218 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3CBEDAF8 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02
M 01/15

Sustainable datasheet

1. RECYCLED CONTENT

- 49% Overall recycled content.
- Yarn
100% PA 6 IMPREL.
- Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3CBEDAF8.
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- REACH (EU)
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modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
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SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
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• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

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To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 32 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

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Leadership in Energy and Environmental Design
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Total MR4 recycled content: 24.5%
MR4 Post-Industrial recycled content: 24.5%
MR4 Post-Consumer recycled content: 0%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

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- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
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- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 32 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

150



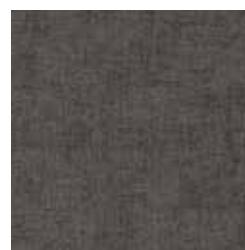
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PATTERN 351

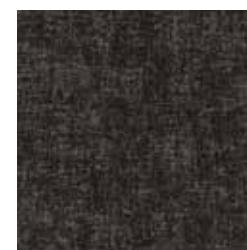
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PATTERN

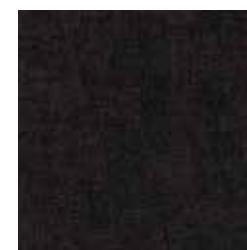
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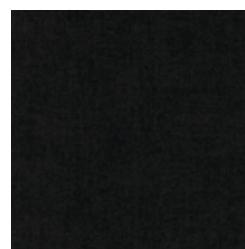
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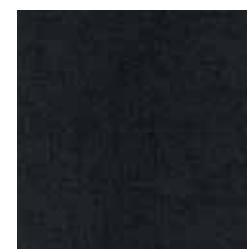
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LRV 3 L 18 965



LRV 4 L 23 592



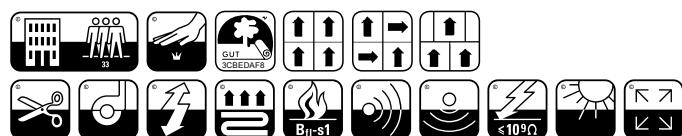
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PATTERN

152

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop, printed	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% PA 6 IMPREL	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 605 g/m ²	THERMAL RESISTANCE	ISO 8302 0.063 m ² K/W
PILE ABOVE BACKING	Ca. 372 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 32 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.06 0.15 0.28 0.31
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.120 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 218 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3CBEDAF8 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



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Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. Yarn
100% PA 6 IMPREL.
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

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- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- a. Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- a. Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3CBEDAF8. These criteria include VOC thresholds, odour and chemical substances
- d. REACH (EU)
modulyss® complies with the strict European REACH standards.

- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
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6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 32 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

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- b. LEED® (US and international)
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MR4 Post-Industrial recycled content: 24.5%
MR4 Post-Consumer recycled content: 0%

- c. HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- a. H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- a. Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 32 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.



44

MOSS

155



LRV 38 L 68

130



LRV 14 L 44

586



LRV 8 L 34

668



LRV 11 L 39

850



LRV 14 L 44

983



LRV 3 L 17

966



LRV 3 L 16

592



LRV 4 L 20

352



LRV 7 L 30

810



LRV 8 L 32

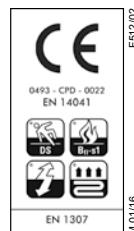
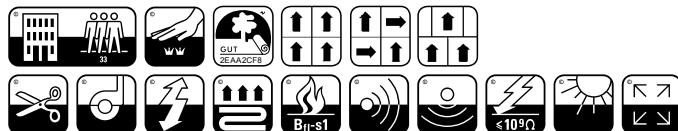
961

MOSS

156

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 880 g/m ²	THERMAL RESISTANCE	ISO 8302 0.084 m ² K/W
PILE ABOVE BACKING	Ca. 590 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.09 0.21 0.35 0.45
PILE HEIGHT	Ca. 4.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.137 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 225 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	2EAA2CF8 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02
M 01/16

Sustainable datasheet

1. RECYCLED CONTENT

- 64% Overall recycled content.
- Yarn
100% ECONYL® yarn; 100% Recycled Solution Dyed Nylon.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 2EAA2CF8. These criteria include VOC thresholds, odour and chemical substances

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Opposite but please note that a similar product has obtained an Ecopoint score of 0.272 and is A+ -rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 36.5%
MR4 Post-Industrial recycled content: 55%
MR4 Post-Consumer recycled content: 9%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
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Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
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We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

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For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
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- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

158



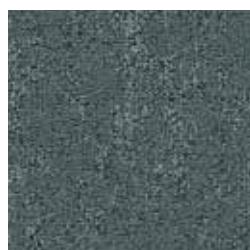
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LEAF

159



LRV 37 L 67 130



LRV 13 L 43 586



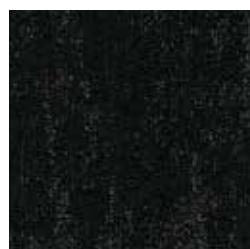
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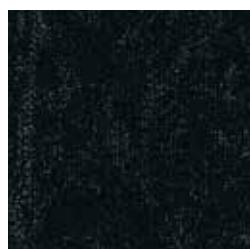
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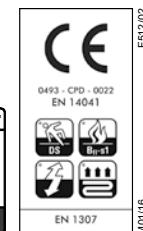
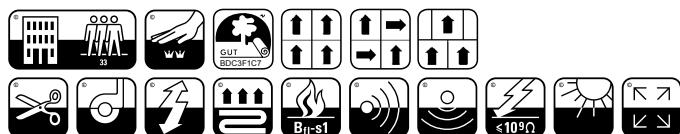
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LRV 9 L 36 961

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 880 g/m ²	THERMAL RESISTANCE	ISO 8302 0.085 m ² K/W
PILE ABOVE BACKING	Ca. 610 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 42 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.11 0.20 0.35 0.46
PILE HEIGHT	Ca. 4.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.142 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 225 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	BDC3F1C7 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



Sustainable datasheet

1. RECYCLED CONTENT

- 64% Overall recycled content.
- Yarn
100% ECONYL® yarn; 100% Recycled Solution Dyed Nylon.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

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- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
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3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number BDC3F1C7. These criteria include VOC thresholds, odour and chemical substances

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modulyss® complies with the strict European REACH standards.
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modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
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Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

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For more information on LEED®, visit www.usgbc.org/contact.

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Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
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Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

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For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
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modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
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46

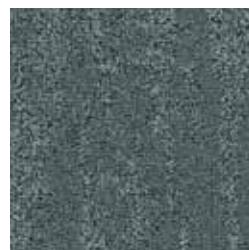
WILLOW

163



LRV 34 L 65

130



LRV 15 L 46

586



LRV 8 L 33

668



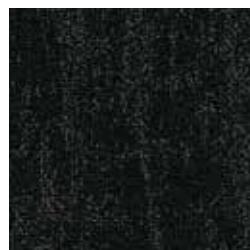
LRV 12 L 42

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LRV 16 L 47

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LRV 4 L 20

966



LRV 4 L 20

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LRV 5 L 24

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LRV 8 L 34

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LRV 9 L 36

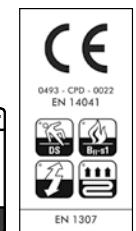
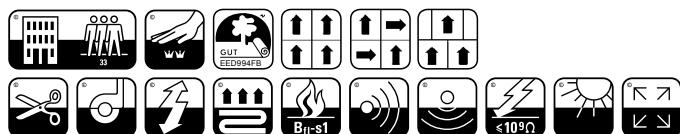
961

WILLOW

164

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 880 g/m ²	THERMAL RESISTANCE	ISO 8302 0.086 m ² K/W
PILE ABOVE BACKING	Ca. 630 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.06 0.08 0.19 0.37 0.47
PILE HEIGHT	Ca. 4.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 225 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	EED994FB Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02

Sustainable datasheet

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Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number EED994FB. These criteria include VOC thresholds, odour and chemical substances

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Opposite but please note that a similar product has obtained an Ecopoint score of 0.272 and is A+ -rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 36.5%
MR4 Post-Industrial recycled content: 55%
MR4 Post-Consumer recycled content: 9.1%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

GRIND 961



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GRIND

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LRV 31 L 63 130



LRV 15 L 46 983



LRV 12 L 42 850



LRV 5 L 24 966



LRV 15 L 46 586



LRV 9 L 36 668



LRV 10 L 37 961

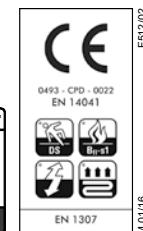
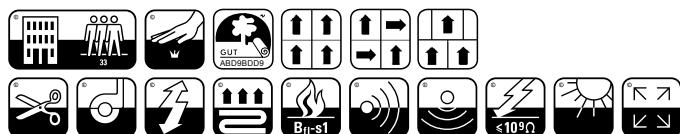
Go to page 95 for the WHITE&BLACK GRIND colour palette.

GRIND

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Technical datasheet

CONSTRUCTION	Minituft® 5/64" Loop	FIRE RESISTANCE	EN 13501-1 B ₁ -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 500 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 600 g/m ²	THERMAL RESISTANCE	ISO 8302 0.046 m ² K/W
PILE ABOVE BACKING	Ca. 197 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 12 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.05 0.04 0.10 0.24 0.29
PILE HEIGHT	Ca. 1.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.197 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 200 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	ABD9BDD9 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



F512/02 M 01/16

Sustainable datasheet

1. RECYCLED CONTENT

- 64% Overall recycled content.
- Yarn
100% ECONYL® yarn; 100% Recycled Solution Dyed Nylon.
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number ABD9BDD9. These criteria include VOC thresholds, odour and chemical substances

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 12 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.10 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Opposite but please note that a similar product has obtained an Ecopoint score of 0.272 and is A+ -rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.
For more information on LEED®, visit www.usgbc.org/contact.

Total MR4 recycled content: 35.5%
MR4 Post-Industrial recycled content: 57.6%
MR4 Post-Consumer recycled content: 6.8%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 12 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

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**modu
lyss®**

FASHION& 332, 936, 950, 961, 979, 990

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FASHION&

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LRV 8 L 34

317



LRV 33 L 64

105



LRV 20 L 52

915



LRV 27 L 59

979



LRV 16 L 48

181



LRV 22 L 55

241



LRV 8 L 34

819



LRV 14 L 44

398



LRV 15 L 46

136



LRV 20 L 52

950



LRV 14 L 44

595



LRV 16 L 47

206



LRV 44 L 73

240



LRV 17 L 48

375



LRV 6 L 28

431



LRV 11 L 39

936



LRV 11 L 39

942



LRV 6 L 27

585



LRV 22 L 55

673



LRV 13 L 43

669



LRV 10 L 37

332



LRV 5 L 25

482



LRV 8 L 33

817



LRV 7 L 30

961



LRV 5 L 26

580



LRV 12 L 42

649



LRV 9 L 36

699



LRV 8 L 33

381



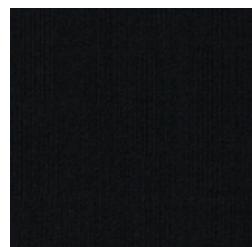
LRV 4 L 23

830



LRV 4 L 23

966



LRV 3 L 17

990



LRV 3 L 16

512



LRV 4 L 23

671



LRV 5 L 27

678



LRV 4 L 22

395

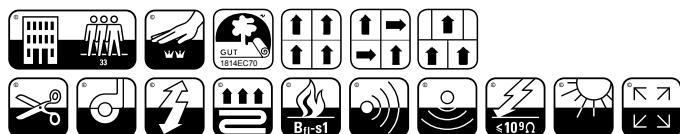


LRV 3 L 18

832

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 800 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 870 g/m ²	THERMAL RESISTANCE	ISO 8302 0.070 m ² K/W
PILE ABOVE BACKING	Ca. 595 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL 44 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.05 0.06 0.17 0.32 0.44
PILE HEIGHT	Ca. 4.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.145 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 240 000 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	36, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	1814EC70 Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit www.usgbc.org/contact .



Sustainable datasheet

1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn
100% PA 6 Aqualon
- Secondary Backing – back2back
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeel, Belgium), this allows us to reduce internal transportation and limits our CO₂ emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

3. INSTALLATION

- Adhesive
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

4. END OF LIFE

- Re-use
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 45% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1101 (see LEED®, point 6.b)
- GUT (DE)
Gemeinschaft Umwelfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 1814EC70.
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)
Building Research Establishment.
This product can contribute towards credits in:
 - Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
 - Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
 - modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.
 - Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 44 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.17 (ISO 354).
 - MAT 1 – Life Cycle Impact
ACertificate ENP 428 ag, A-rating – Eco point score between 0.343 and 0.383. To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
 - MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
 - WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.
- LEED® (US and international)
Leadership in Energy and Environmental Design
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
Total MR4 recycled content: 25.1%
MR4 Post-Industrial recycled content: 46.4%
MR4 Post-Consumer recycled content: 1.9%

- HQE (FR)
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500 kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

8. PRODUCTION PROCESS

- H₂O
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

9. HEALTH & COMFORT

- Solvent-free Bitume
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics
This product is strongly sound absorbent. It reduces the contact noise by 44 decibels (ΔL: 1,000 Hz - ISO 10140), with a perfect acoustic effect as result.

Overview technical data per product – LOOP PILE

#	PAGE	PRODUCT	CONSTRUCTION	PILE MATERIAL	PILE WEIGHT	TOTAL WEIGHT	PILE ABOVE BACKING	TOTAL HEIGHT	PILE HEIGHT	PILE DENSITY	TUFT DENSITY	
00	Page 2	ALPHA	Tufted 1/10" Loop	100% PA 6 Solution Dyed	Ca. 500 g/m ²	Ca. 4 300 g/m ²	Ca. 302 g/m ²	Ca. 5.8 mm	Ca. 2.6 mm	Ca. 0.116 g/cm ³	171 600 /m ²	
29	Page 98	ALTERNATIVE100	Tufted 1/10" Loop Tip Sheared	100% ECONYL® Yarn + 100% Regenerated Space Dyed Nylon	Ca. 800 g/m ²	4 400 g/m ²	Ca. 460 g/m ²	Ca. 6.5 mm	Ca. 3.4 mm	Ca. 0.135 g/cm ³	206 000 /m ²	
09	Page 34	BLACK&	Tufted 1/10" Loop	50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN	Ca. 850 g/m ²	4 400 g/m ²	Ca. 422 g/m ²	Ca. 6.8 mm	Ca. 3.5 mm	Ca. 0.121 g/cm ³	154 440 /m ²	
27	Page 90	CONVERSE100	Minituft® 5/64" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 480 g/m ²	4 200 g/m ²	Ca. 176 g/m ²	Ca. 5.7 mm	Ca. 0.8 mm	Ca. 0.220 g/cm ³	205 000 /m ²	
36	Page 122	DSGN CLOUD	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m ²	4 600 g/m ²	Ca. 420 g/m ²	Ca. 6.7 mm	Ca. 3.3 mm	Ca. 0.127 g/cm ³	193 000 /m ²	
37	Page 126	DSGN TWEED	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m ²	4 600 g/m ²	Ca. 420 g/m ²	Ca. 6.7 mm	Ca. 3.3 mm	Ca. 0.127 g/cm ³	221 000 /m ²	
38	Page 130	DSGN TRACK	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m ²	4 600 g/m ²	Ca. 420 g/m ²	Ca. 6.9 mm	Ca. 3.3 mm	Ca. 0.127 g/cm ³	183 000 /m ²	
48	Page 170	FASHION&	Tufted 1/12" Loop	100% PA 6 Aqualon	Ca. 870 g/m ²	4 800 g/m ²	Ca. 595 g/m ²	Ca. 7.7 mm	Ca. 4.1 mm	Ca. 0.145 g/cm ³	240 000 /m ²	
01	Page 6	FIRST	Tufted 1/10" Loop	100% PA 6 Solution Dyed Nylon	Ca. 540 g/m ²	4 300 g/m ²	Ca. 330 g/m ²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm ³	156 000 /m ²	
23	Page 82	FIRST ABSOLUTE	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 730 g/m ²	4 500 g/m ²	Ca. 420 g/m ²	Ca. 7.2 mm	Ca. 3.5 mm	Ca. 0.120 g/cm ³	186 000 /m ²	
32	Page 110	FIRST BLOCKS	Tufted 1/12" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 600 g/m ²	4 400 g/m ²	Ca. 335 g/m ²	Ca. 6.8 mm	Ca. 3.1 mm	Ca. 0.108 g/cm ³	174 000 /m ²	
19	Page 70	FIRST LINES	Tufted 1/10" Loop	92% PA 6 Solution Dyed Aqualon + 8% PA 6 Space Dyed	Ca. 540 g/m ²	4 300 g/m ²	Ca. 330 g/m ²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm ³	156 000 /m ²	
10	Page 38	FIRST RADIANT	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m ²	4 300 g/m ²	Ca. 330 g/m ²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm ³	156 000 /m ²	
30	Page 102	FIRST STRIPES	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m ²	4 300 g/m ²	Ca. 330 g/m ²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm ³	156 000 /m ²	
31	Page 106	FIRST WAVES	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m ²	4 300 g/m ²	Ca. 330 g/m ²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm ³	156 000 /m ²	
47	Page 166	GRIND	Minituft® 5/64" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 600 g/m ²	4 500 g/m ²	Ca. 197 g/m ²	Ca. 5.8 mm	Ca. 1.0 mm	Ca. 0.197 g/cm ³	200 000 /m ²	
20	Page 74	IN-GROOVE	Tufted 1/10" Loop	100% PA 6 Aqualon	Ca. 740 g/m ²	4 700 g/m ²	Ca. 418 g/m ²	Ca. 7.2 mm	Ca. 3.6 mm	Ca. 0.116 g/cm ³	158 500 /m ²	
45	Page 158	LEAF	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 880 g/m ²	4 600 g/m ²	Ca. 610 g/m ²	Ca. 7.8 mm	Ca. 4.3 mm	Ca. 0.142 g/cm ³	225 000 /m ²	
12	Page 46	LINE-UP	Tufted 1/10" Loop	PA 6 Solution Dyed + PA 6 Solution Dyed Space	Ca. 550 g/m ²	4 400 g/m ²	Ca. 309 g/m ²	Ca. 5.7 mm	Ca. 2.5 mm	Ca. 0.124 g/cm ³	168 000 /m ²	
24	Page 86	METALLIC	Tufted 1/10" Loop	100% PA 6.6 Antron® Brilliance™	Ca. 700 g/m ²	4 400 g/m ²	Ca. 400 g/m ²	Ca. 6.4 mm	Ca. 2.8 mm	Ca. 0.143 g/cm ³	109 000 /m ²	
02	Page 10	MILLENNIUM100	Tufted 1/10" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 580 g/m ²	4 585 g/m ²	Ca. 380 g/m ²	Ca. 6.8 mm	Ca. 3.0 mm	Ca. 0.127 g/cm ³	147 750 /m ²	
44	Page 154	MOSS	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 880 g/m ²	4 600 g/m ²	Ca. 590 g/m ²	Ca. 7.8 mm	Ca. 4.3 mm	Ca. 0.137 g/cm ³	225 000 /m ²	
18	Page 66	NORMAL	Tufted 1/10" Loop	100% Polyolefine	Ca. 580 g/m ²	4 100 g/m ²	Ca. 340 g/m ²	Ca. 6.2 mm	Ca. 3.4 mm	Ca. 0.100 g/cm ³	156 000 /m ²	
18	Page 66	NEW NORMAL	Tufted 1/10" Loop	8% PA Space Dyed + 92% Polyolefine	Ca. 580 g/m ²	4 100 g/m ²	Ca. 340 g/m ²	Ca. 6.2 mm	Ca. 3.4 mm	Ca. 0.100 g/cm ³	156 000 /m ²	
04	Page 14	ON-LINE 1	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 700 g/m ²	4 530 g/m ²	Ca. 380 g/m ²	Ca. 6.0 mm	Ca. 2.6 mm	Ca. 0.146 g/cm ³	146 500 /m ²	

	CLASS EN 1307	FIRE CLASS	THERMAL RESISTANCE	ΔL 1000 Hz	ΔL_w (dB)	α_w (H)						
	33-LC1	B _{fi} -s1	0.067 m² K/W	30	22	0.2	■	■	■	■	■	
	32-LC2	B _{fi} -s1	0.064 m² K/W	33	23	0.2	■	■	■	■	■	
	33-LC2	B _{fi} -s1	0.055 m² K/W	37	24	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.076 m² K/W	10	15	0.2	■	■			■	
	33-LC2	B _{fi} -s1	0.070 m² K/W	42	26	0.2	■	■	■	■	■	■
	33-LC2	B _{fi} -s1	0.070 m² K/W	43	24	0.2	■	■	■	■	■	■
	33-LC2	B _{fi} -s1	0.064 m² K/W	42	26	0.2	■	■	■	■	■	■
	33-LC2	B _{fi} -s1	0.070 m² K/W	44	26 (??)	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.047 m² K/W	37	25	0.20	■	■	■	■	■	
	33-LC2	B _{fi} -s1	0.075 m² K/W	39	29	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.064 m² K/W	36	24	0.2	■	■	■	■	■	■
	33-LC1	B _{fi} -s1	0.047 m² K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.047 m² K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.047 m² K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.047 m² K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.046 m² K/W	12	16	0.2	■	■	■	■	■	
	33-LC2	B _{fi} -s1	0.050 m² K/W	36	22	0.2	■	■	■	■	■	
	33-LC2	B _{fi} -s1	0.085 m² K/W	42	26	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.039 m² K/W	33	22	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.041 m² K/W	36	24	0.2	■	■	■	■	■	
	33-LC1	B _{fi} -s1	0.055 m² K/W	38	26	0.20	■	■	■	■	■	
	33-LC2	B _{fi} -s1	0.084 m² K/W	36	26	0.2	■	■	■	■	■	
	31-LC1	Cfl-s1	0.045 m² K/W	39	26	0.2	■		■	■	■	
	31-LC1	Cfl-s1	0.045 m² K/W	39	26	0.2	■		■	■	■	
	33-LC1	B _{fi} -s1	0.036 m² K/W	35	23	0.2	■	■	■	■	■	

#	PAGE	PRODUCT	CONSTRUCTION	PILE MATERIAL	PILE WEIGHT	TOTAL WEIGHT	PILE ABOVE BACKING	TOTAL HEIGHT	PILE HEIGHT	PILE DENSITY	TUFT DENSITY	
05	Page 18	ON-LINE 2	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 700 g/m ²	4 530 g/m ²	Ca. 380 g/m ²	Ca. 6.0 mm	Ca. 2.6 mm	Ca. 0.146 g/cm ³	146 500 /m ²	
39	Page 134	OPPOSITE	Minituft® 5/64" Loop	100% PA 6 Solution Dyed	Ca. 500 g/m ²	4 600 g/m ²	Ca. 170 g/m ²	Ca. 5.9 mm	Ca. 1.1 mm	Ca. 0.155 g/cm ³	200 000 /m ²	
40	Page 138	OPPOSITE LINES	Minituft® 5/64" Loop	100% PA 6 Solution Dyed	Ca. 500 g/m ²	4 600 g/m ²	Ca. 170 g/m ²	Ca. 5.9 mm	Ca. 1.1 mm	Ca. 0.155 g/cm ³	200 000 /m ²	
42	Page 146	PATCHWORK	Tufted 1/10" Loop, printed	100% PA 6 IMPREL	Ca. 605 g/m ²	4 400 g/m ²	Ca. 372 g/m ²	Ca. 6.6 mm	Ca. 3.1 mm	Ca. 0.120 g/cm ³	218 000 /m ²	
43	Page 150	PATTERN	Tufted 1/10" Loop, printed	100% PA 6 IMPREL	Ca. 605 g/m ²	4 400 g/m ²	Ca. 372 g/m ²	Ca. 6.6 mm	Ca. 3.1 mm	Ca. 0.120 g/cm ³	218 000 /m ²	
41	Page 142	PIXEL	Tufted 1/10" Loop, printed	100% PA 6 IMPREL	Ca. 605 g/m ²	4 400 g/m ²	Ca. 372 g/m ²	Ca. 6.6 mm	Ca. 3.1 mm	Ca. 0.120 g/cm ³	218 000 /m ²	
15	Page 54	PERPETUAL	Tufted 1/10" Loop	100% Polyamide	Ca. 700 g/m ²	4 600 g/m ²	Ca. 450 g/m ²	Ca. 6.9 mm	Ca. 3.5 mm	Ca. 0.128 g/cm ³	104 000 /m ²	
35	Page 118	PURE AIR100	Tufted 1/10" Loop	100% PA 6 ECONYL® Yarn + Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon	Ca. 700 g/m ²	4 700 g/m ²	Ca. 402 g/m ²	Ca. 6.6 mm	Ca. 3.0 mm	Ca. 0.134 g/cm ³	180 000 /m ²	
17	Page 62	REVERSE100	Minituft® 5/64" Loop	100% PA 6 ECONYL® Yarn + Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon	Ca. 650 g/m ²	4 400 g/m ²	Ca. 183 g/m ²	Ca. 6.0 mm	Ca. 0.8 mm	Ca. 0.228 g/cm ³	190 000 /m ²	
16	Page 58	SHINE-UP	Tufted 1/10" Loop	PA 6 Solution Dyed + PA 6 Solution Dyed Space	Ca. 660 g/m ²	4 600 g/m ²	Ca. 360 g/m ²	Ca. 6.2 mm	Ca. 2.8 mm	Ca. 0.129 g/cm ³	168 000 /m ²	
06	Page 22	STEP	Tufted 1/10" Loop	100% PA 6 Aqualon	Ca. 530 g/m ²	4 300 g/m ²	Ca. 335 g/m ²	Ca. 6.0 mm	Ca. 2.8 mm	Ca. 0.120 g/cm ³	160 000 /m ²	
46	Page 162	WILLOW	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 880 g/m ²	4 600 g/m ²	Ca. 630 g/m ²	Ca. 7.8 mm	Ca. 4.3 mm	Ca. 0.146 g/cm ³	225 000 /m ²	

Overview technical data per product – CUT PILE

07	Page 26	AFFINITY	Tufted 1/10" cutpile Frisé	100% PA 6.6 Antron®	Ca. 850 g/m ²	4 655 g/m ²	Ca. 628 g/m ²	Ca. 8.0 mm	Ca. 4.7 mm	Ca. 0.134 g/cm ³	188 000 /m ²	
14	Page 50	CAMBRIDGE	Tufted 1/10" Frisé	100% PA 6.6 Antron®	Ca. 1050 g/m ²	4 650 g/m ²	Ca. 728 g/m ²	Ca. 8.0 mm	Ca. 5.0 mm	Ca. 0.146 g/cm ³	181 102 /m ²	
11	Page 42	ECO100 C	Tufted 1/10" CUT Velours, plain	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 750 g/m ²	4 500 g/m ²	Ca. 500 g/m ²	Ca. 7.0 mm	Ca. 3.6 mm	Ca. 0.138 g/cm ³	164 000 /m ²	
08	Page 30	UNIQUE	Tufted 1/10" Velours, COC	100% PA 6.6	Ca. 750 g/m ²	4 600 g/m ²	Ca. 465 g/m ²	Ca. 7.5 mm	Ca. 4.0 mm	Ca. 0.116 g/cm ³	255 000 /m ²	

	CLASS EN 1307	FIRE CLASS	THERMAL RESISTANCE	ΔL 1000 Hz	ΔL_w (dB)	α_w (H)						
	33-LC1	B _f -s1	0.036 m ² K/W	35	23	0.2	■	■	■	■	■	
	33-LC1	B _f -s1	0.048 m ² K/W	11	16	0.2	■	■			■	
	33-LC1	B _f -s1	0.048 m ² K/W	11	16	0.2	■	■			■	
	33-LC1	B _f -s1	0.063 m ² K/W	32	23	0.2	■	■	■	■	■	
	33-LC1	B _f -s1	0.063 m ² K/W	32	23	0.2	■	■	■	■	■	
	33-LC1	B _f -s1	0.063 m ² K/W	32	23	0.2	■	■	■	■	■	
	33-LC2	B _f -s1	0.057 m ² K/W	38	27	0.2	■	■	■	■	■	
	33-LC2	B _f -s1	0.065 m ² K/W	37	24	0.2	■	■	■	■	■	
	33-LC1	B _f -s1	0.032 m ² K/W	23	19	0.2	■	■	■		■	
	33-LC1	B _f -s1	0.040 m ² K/W	36	24	0.2	■	■	■	■	■	
	33-LC1	B _f -s1	0.053 m ² K/W	33	24	0.20	■	■	■	■	■	
	33-LC2	B _f -s1	0.086 m ² K/W	36	27	0.2	■	■	■	■	■	

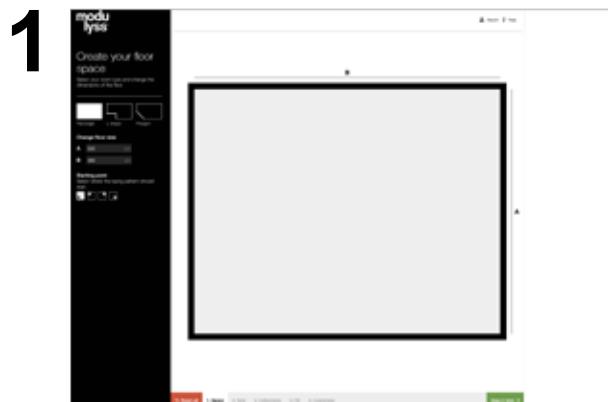
	32-LC2	B _f -s1	0.051 m ² K/W	34	23	0.2	■	■	■	■		
	32-LC3	B _f -s1	0.071 m ² K/W	43	25	0.2	■	■	■	■		
	33-LC2	B _f -s1	0.050 m ² K/W	43	26	0.2	■	■	■	■		
	32-LC2	B _f -s1	0.060 m ² K/W	37	25	0.2	■	■	■	■		

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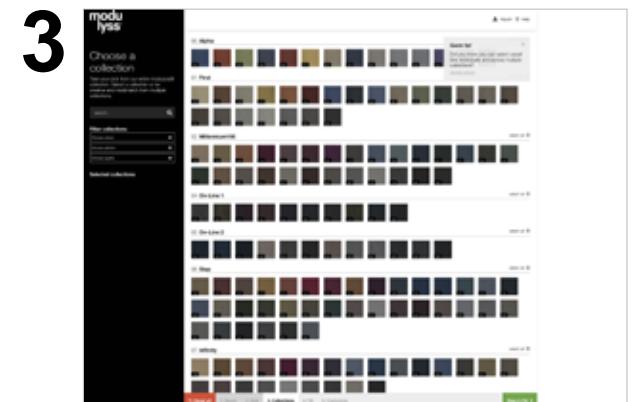
Space

Create your own floor space. Select your room type and change the dimensions.



Grid

Choose from a wide range of grids. The grid defines how the carpet tiles are installed.



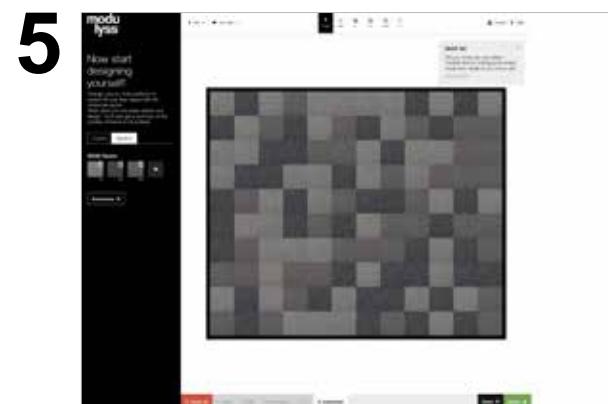
Collections

Choose from our entire collection. You can mix&match tiles from one or multiple collections.



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Customise

Change colours, add details, make patterns or random fill your space with the randomise option.

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modulyss®
Zevensterrestraat 21
9240 Zele
BELGIUM

info@modulyss.com
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