

The origin

The beginning of a new concept in artificial grass. A new way of manufacturing synthetic grass that opens the door to HYPERREALISM. SUMIGRAN is once again the most avant-garde company when creating a new concept in artificial grass with the GENESIS model

This novelty is totally revolutionary. The production system has been completely changed, the manufacturing technique is very different compared to other models of artificial grass on the market, obtaining the most realistic product that has ever been manufactured

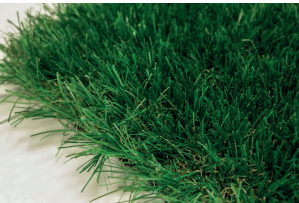
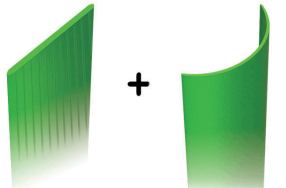









No one has ever before ventured to make a product of these characteristics and technical difficulty. Only SUMIGRAN could or would create this new model, which is a unique milestone in the history of the product

GENESIS artificial grass is not the model with the largest amount of fibre in its composition, nor the one that uses the most advanced yarn or has the most complex shape or even the highest density. What is most revolutionary and makes it unique, is the new production method that is used to manufacture it. As a result of this novel manufacturing system (which is much more complex and expensive compared to the classic linear and homogeneous tufting system) we can make artificial grass with 4 different types of yarn per stitch, of 8 different colours, which gives it a degree of unprecedented realism

But in addition to these already surprising characteristics, what is truly revolutionary in GENESIS artificial grass is the manufacture of fibres in "bouquet" per stitch: for each stitch we use 32 filaments, which at their endings open like a broad bouquet, giving it a more realistic look similar to that of the growth of natural grass

The fibre has a Dtex of 23.000, using an 8 + 8 + 8 + 8 configuration (the straight monofilaments are formed by 8 (of origin Dow Chemical) matte micromonofilament (MMF) with micro-estrips yarns + 8 concave yarns + 8 crimped strands are composed of 16 filaments combining 4 different colour tones). The difference in the types of yarns used makes them react differently after being stepped on, responding more naturally and obtaining a much more realistic multidirectional aspect with use. Both in the grass itself and its fibres, different textures and heights are created, which in turn generate tricks of light and shadows, which give the product a level of realism and naturalness that make it unique on the international market



GENESIS artificial grass is the dawning of a new level of quality and realism in the world of artificial grass. The birth of a new era

| | | |
|--|---|---|
| DENSITY 8250 stitches / m2 | PILE WEIGHT 2468 grammes / m2 | PILE HEIGHT 60 mm |
|  |  |  |
| APPEARANCE | SHAPE OF YARN | A CLOSER LOOK |
| LEVEL OF USE | TYPICAL USES | ICONS |
| Intense, it is going to be stepped on continuously | <ul style="list-style-type: none"> gardens of apartment block communities community pools, etc... |  |
| High, it will be stepped on frequently | <ul style="list-style-type: none"> private gardens swimming pools any other frequently walked-on area, etc... |  |
| Medium, you will step on it just occasionally | <ul style="list-style-type: none"> private gardens terraces / penthouse apartments swimming pools other less frequented areas, etc... |  |
| Low, merely decorative | <ul style="list-style-type: none"> decorative gardens roundabouts / separators shop windows fairs / events, etc... |  |
| DEGREE COMFORT | intense |  |
| DEGREE RESILIENCE | medium |  |
| DEGREE REAL-LIFE APPEARANCE | intense |  |
| DEGREE SOFTNESS | high |  |

| TECHNICAL CHARACTERISTICS OF THE YARN | |
|---------------------------------------|--|
| DTEX | 23000 |
| Filament configuration | 8 straight (yarn 1) + 8 straight (yarn 2) 8 curly (yarn 3) + 8 curly (yarn 4) |
| Straight yarn | |
| Structure | Micromonofilament (first yarn) monofilament (second yarn) |
| Yarn 1 shape | Micro-estrips |
| Yarn 2 shape | Concave in C |
| Composition | Polyethylene (both yarns) |
| Yarn 1 colour shade | Two-tone green (two colours) |
| Yarn 2 colour shade | Two-tone green (two colours) |
| Matte treatment | Yes |
| UV stabilised | Yes |
| Respectful with the environment | Yes, lead and cadmium free |
| Curly yarn | |
| Structure | Textured |
| Composition | Polypropylene |
| Yarn 3 colour shade | Beige and green |
| Yarn 4 colour shade | Beige and green |

| TECHNICAL CHARACTERISTICS OF THE BACKING | |
|--|------------------|
| Primary support composition | Polypropylene |
| Primary support layers | 1 |
| Reinforced with net | Yes |
| Primary support weight | 155 grammes / m2 |
| Support coating | Latex |
| Support coating weight | 900 grammes / m2 |

| GENERAL TECHNICAL CHARACTERISTICS | |
|-----------------------------------|--|
| Type of manufacturing system | Tufted cut pile + curly yarn |
| Gauge | 5/8" |
| Stitches per m2 | 8250 (+/- 10%) |
| Stitches rate per 10cm | 13 (+/- 1) |
| Pile height | 60 mm (+/- 5%) |
| Total height | 63 mm (+/- 5%) |
| Pile weight | 2468 gr / m2 (+/- 10%) |
| Total weight | 3523 gr / m2 (+/- 10%) |
| Dimensional stability | +/- 0,60 % |
| Water permeability | 50 litres /minute / m2 |
| Installation | Floating without silica sand infill (optional) |

| FORMATS AND MEASUREMENTS | |
|---|---|
| Rolls  width: 2 meters length: 20 meters | Rolls  width: 4 meters length: 20 meters |

