



Latest generation artificial turf, manufactured with linear tufting process. It has a gauge of 3/16" with 22 tufts/dm, resulting in 46.200 tufts/m². The Premier Supercourt X3 available in different colors, yarns have a height of 10 mm and 8.200 dtex.

Premier Supercourt X3 turf combines 2 textured XOMEGA monofilaments, 2 XNOVA textured monofilaments and 2 textured XDELTA monofilaments, all made of polyethylene with high abrasion and UV resistance.

The combination of thickness and morphology in the filaments provides a greater elastic memory capacity. Textured filaments act as springs, minimizing surface wear and maximizing appearance extending the life of the system.

XOMEGA, XNOVA and XDELTA yarns completely encapsulate the sand, minimizing the wear of the surface and ball and maximizing its appearance.

The Premier Supercourt X3 filaments are tufted to the backing with linear tufting process. The backing is made with double layer of polypropylene with a weight of 223 g/m². A peculiar characteristic of this support is the exceptional dimensional stability. After the tufting process, approximately 600 g/m² of polyurethane

are incorporated into the product via the finishing line. This operation fixes the yarns to the backing, obtaining a tear resistance of between 25-50 N. The total weight of the finished product is approximately 2.080 g/m² with a maximum roll width of 4 meters.

During installation a lower layer is realized with stabilization infill made of rounded, washed and dried quartz sand granules. The sand has a 97% silicon content with a particle size between 0,2 - 0,6 mm, and is applied at a ratio of 10 kg/m².

The MONDOTURF NSF PREMIER SUPERCOURT X3 artificial turf carpet must be installed on a flat and if possible "rough" surface such as asphalt or unfinished cement. The following installation types must be avoided:

- Carpet on surface
- Carpet on NWF (non-woven fabric) substrates
- Carpet on hard, smooth surfaces such as marble, ceramics, highly compacted cements smoothed with a very fine trowel

Trimming by at least 3.0 cm is required along the entire perimeter. As far as possible, avoid long-term positioning of equipment or furnishings on the turf system that can prevent the natural movement of the carpet. The joints for the sheets involve the use of geotextile strips applied with two-component epoxy-polyurethane adhesives. The line marking for play is usually made with the same material.

The carpet of this system is laboratory certified in accordance with **GREENGUARD / GREENGUARD GOLD**.

This MondoTurf artificial turf system is manufactured in accordance with the UNE EN ISO 9001 quality management systems in regards to the design, development, production, marketing, installation and maintenance of the artificial turf surface. It was developed according to the R&D management system in accordance with the UNE 166002 standard relating to the research, development and innovation of textile technologies for artificial turf surfaces and synthetic fibre materials. Furthermore, it is manufactured in accordance with the UNE EN ISO 14001 quality and environmental management systems regarding the design, development, production, marketing, installation and maintenance of the artificial turf surface.

Yarn Properties		Carpet Properties	
Yarn name:	Premier Supercourt X3	Pile height (ISO 2549):	10 mm (± 5%)
Linear density of yarn (average):	8.200 dtex (± 10%)	Stitch rate (ISO 1763):	22 tufts/dm
Yarn Composition:	100% POLYETHYLENE	Tuft density (ISO 1763):	46.200 tufts/m ² (± 10%)
Yarn color:	Three blue tones , Three grey tones	Tuft density:	554.400/m ²
Filaments Type:	XNOVA / XDELTA / XOMEGA	Tufting pattern:	Linear tufting
Linear density of filaments:	1.150 / 1.475 / 1.475 dtex (± 10%)	Gauge:	3/16"
Thickness of filaments (FIFA method 25):	170 / 200 / 200 µm (± 10%)	Primary backing construction:	double layer of polypropylene
Structure of filaments:	curly monofilament / curly monofilament / curly monofilament	Secondary backing composition:	Polyurethane (PU)
Number of filaments:	2 / 2 / 2	Water Permeability (EN 12616):	500 mm/h (outdoor)
		Maximum roll size:	20,45 x 4 m

Carpet weight		Infill properties	
Pile weight (ISO 8543):	1.257 g/m ² (± 10%)	Stabilizing Infill:	Quartz sand, rounded, washed and dried
Primary backing weight:	223 g/m ² (± 10%)	Particle size (range):	0,2 - 0,6 mm
Secondary backing weight:	600 g/m ² (± 10%)	Quantity:	10 kg/m ²
Total weight (ISO 8543):	2.080 g/m ² (± 10%)		