

THERMO-BONDED BACKING

ULTIMATE TECHNOLOGY IN TURF BACKING



 **MONDO** SPORT.TURF.



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ENGINEERED AND DEVELOPED BY MONDO, THIS FULLY THERMOPLASTIC ARTIFICIAL TURF BACKING DERIVED FROM A NEWLY INNOVATIVE AND PATENTED MANUFACTURING PROCESS IS EASIER TO INSTALL AND RECYCLE THAN TRADITIONAL BACKINGS.



THERMO-BONDING PROCESS

the thermoplastic contained within the layers is melted to adhere both backings together and permanently fuse the tufts in place.

TUFTING LAYER

1 layer of polyester fabric

1 layer of polyester woven mesh polyethylene

During the tufting process polyethylene yarn loops shall be inserted into the tufting layer.

STABILITY LAYER

polyethylene

1 layer of heavy polyester woven mesh

1 layer of polyester fabric

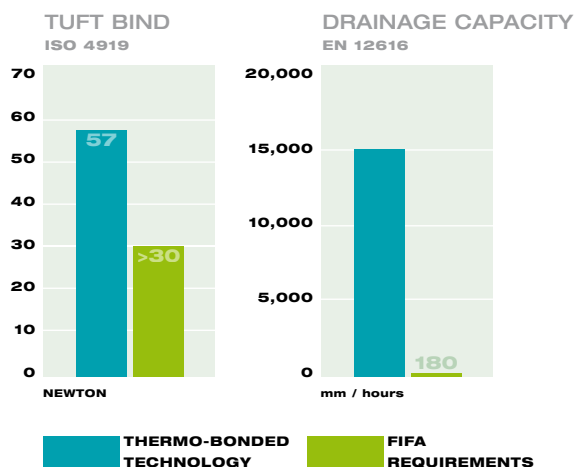
THE ADVANTAGES OF THERMO-BONDING

Tuft bind

- High tuft withdrawal force
- Consistent performance and playability
- Reduces premature wear or degrading aesthetics

Drainage

- Backing is >90% porous
- Efficient water flow and consistent drainage throughout the entire backing
- No drainage holes required in the backing



CHARACTERISTICS	THERMO-BONDED	TRADITIONAL
TUFT BIND	57 N	31 N
DRAINAGE	15.000 mm/h	1.300 mm/h
EASE OF RECYCLABILITY	YES	NO
POST CONSUMER CONTENT	YES	NO
LAYERS	4	2-3
PRIMARY COMPOSITION	POLYESTER	POLYPROPYLENE

Environmental

- 100% recyclable
- Does not utilize any polyurethane components.
- Contains >85% post consumer recycled content, reducing CO₂ emission.

Construction

- Quad-layer polyester woven and non-woven construction provides a reinforced matrix.
- Not affected by moisture or changing environmental conditions.
- Patent pending
- Turf systems featuring thermo-bonded backing can withstand FIFA 1 STAR/2 STAR requirements for fields certification.