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Rev. 1/2018

REFO SPORT 20 C S *

Drilled and grooved - Horizontal and vertical drainage

TECHNICAL SPECIFICATION

REFO SPORT 20 C S meets, in specific field constructions, the specifications of the international sports associations of rugby and football, Gaelic Games, soccer (FIFA requirements) etc.

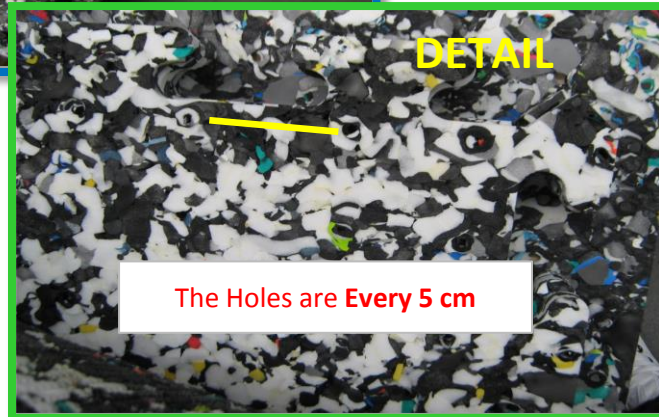
CHARACTERISTICS

Physical

Thickness at kPa load	20	mm	EN 1969:2013
Density	120	Kg/m ³	
Mass per unit area	3,20	Kg/m ²	EN 430:1994
Tensile Strength of Shockpad	0.151	Mpa	EN 12230:2003

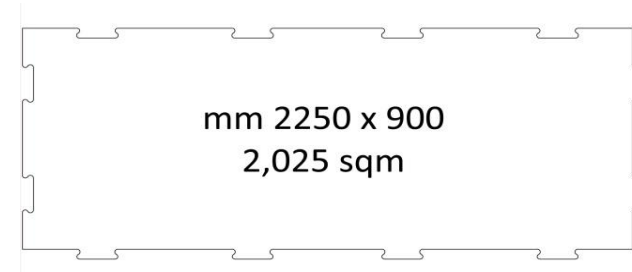
* **C** Is the definition of channels

* **S** Is the definition of Special Measures (mm 2250 x 900)



The Holes are **Every 5 cm**

REFO SPORT 20 C S is supplied in plates
Measures each plate: **0,90 x 2,25 (puzzle form)**
Sqm each plate: **2,025 sqm**



The holes are present on each plate, every 5 cm

Holes **Width: 20 mm**
Holes **Depth: 10 mm**

Performance*

Deformation	8.1	mm	AAA FIFA Handbook of Test Methods 05a
Shock absorption * Between channels	57	%	AAA FIFA Handbook of Test Methods 04a
Energy Restitution	41	%	AAA FIFA Handbook of Test Methods 13
Resistance to break	140N	± 1N	
Resistance to compression	Without permanent deformation	± 1N	
Dimensional stability	0.37 & 0.41	%	

Drainage

Infiltration Rate (vertical)	> 3000 mm	mm/h	EN 12616:2013
Horizontal drainage	Slope (%)	0.0 0.5 1.0	EN ISO 12958:2010
	Flow l/s*m	0.400 0.411 0.439	

DURABILITY

REFO SPORT 20 C S consists of thermal bonded (closed-celled) cross-linked Polyethene foam (from non-contaminated industrial waste) with a predicted durability (according ISO/TR 13434) for a minimum of 100 years but the normal warranty is tied to the use of the turf.

based on microbiological resistance (according EN 12225) - resistance to: weathering (according EN 12224) - oxidation (according EN 13438) - acids & bases (according EN 14030)

The performance characteristics of **REFO SPORT 20 C S** are hardly effected by simulated (mechanical) wear.

based on stability after 65,000 Lisport cycli (when combined with a non-infill artificial grass)

The (dimensional) characteristics of **REFO SPORT 20 C S** are hardly effected by simulated aging.

based on stability after hot water and hot air (according EN 13744 a nd EN 13817)

This specification is based on (independent) Laboratory measurements and the overall knowledge of APETEK SRL (at the time of revision).

Additional information (e.g. additional characteristics, specif laboratory reports or statistical analysis) is available upon request.

APETEK SRL reserves itself the right to change this specification and/or product (without notice)

GUARANTEE

All **APETEK Products** are guaranteed for **25 years in normal condition** (except specific products out of our official range)