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Rev. 1/2018

## REFO SPORT 23 C S \*

Drilled and grooved - Horizontal and vertical drainage

### TECHNICAL SPECIFICATION

**REFO SPORT 23 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	23	mm	EN 1969:2013
Mass per unit area	2,46	Kg/m <sup>2</sup>	EN 430:1994
<b>Tensile Strength of Shockpad</b>	0.253	MPa	EN 12230:2003

\* **C** Is the definition of channels

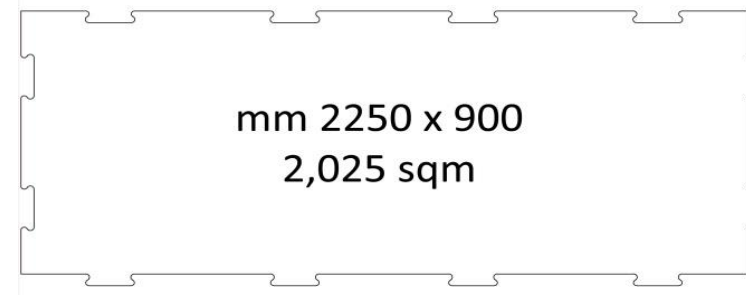
\* **S** Is the definition of Special measures (cm 225 x 900)



The holes are **Every 5 cm**

**REFO SPORT 23 C S** is supplied in plate

Measures each plate: **0,90 x 2,25 (puzzle form)**



The holes are present on each plate, every 5 cm

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

### Performance\*

Deformation	9.1	mm	AAA FIFA Handbook of Test Methods 05a
Shock absorption	62	%	AAA FIFA Handbook of Test Methods 04a
* Between channels			
Energy Restitution	35.2	%	AAA FIFA Handbook of Test Methods 13
Resistance to break	140N	± 1N	
Resistance to compression	Without permanent deformation		± 1N
Dimensional stability	0.11 & 0.10	%	

### Drainage

Infiltration Rate (vertical)	> 3000 mm	mm/h	EN 12616:2013
Horizontal drainage	Slope (%)	0.5    1.0    1.5	EN ISO 12958:2010
	Flow l/s*m	0.627    0.642    0.685	

**REFO SPORT 23 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 23 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 23 C S** are hardly effected by simulated aging.

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