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Rev. 1/2018

REFO SPORT 18 S
 Perforated - Only vertical drainage

TECHNICAL SPECIFICATION

REFO SPORT 18 S meets , the specifications of the international sports associations of rugby ,
 FIFA and excellent solution in multi sport areas (MUGA).

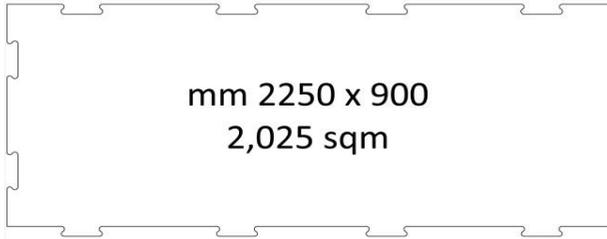
CHARACTERISTICS

Physical

Thickness at kPa load	18.00	mm (tolerance +/- 10%)
Mass per unit area	1,94	Kg/m ²
Tensile Strength of Shockpad	Unaged	0.305 Mpa
	After water ageing	0.306 MPa

REFO SPORT 18 S is supplied in plate

Measures each plate: **0,90 x 2,25 (puzzle form)**
 Sqm each plate: **2,025 sqm**



SHOCKPAD ANALYSE

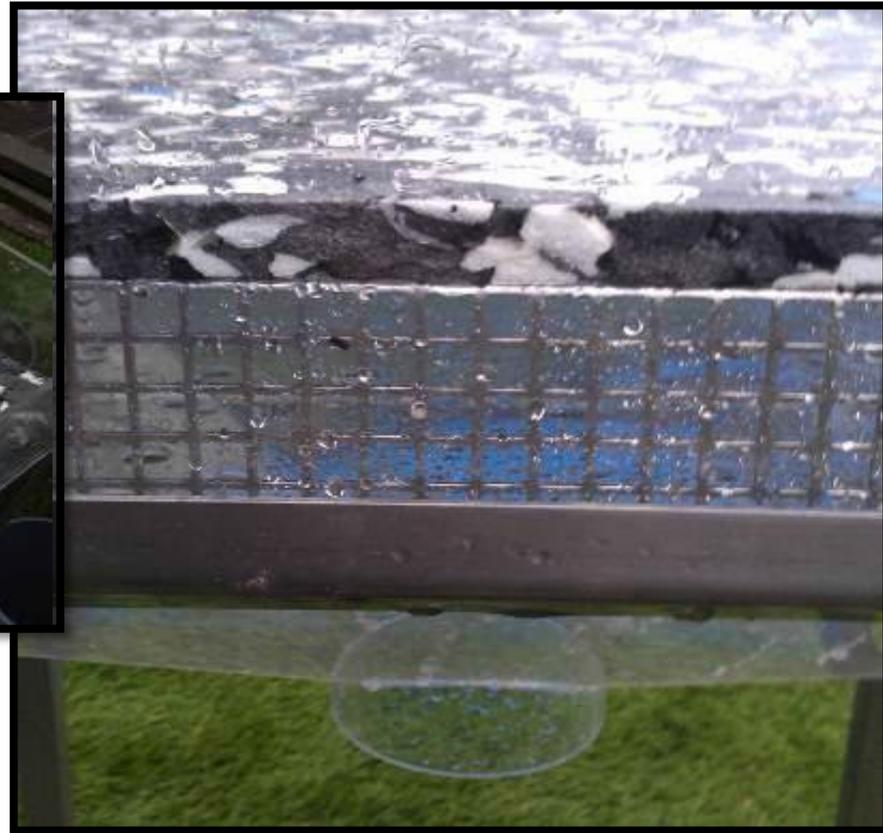
The Shockpads (smooth shockpad and ridge shockpad)

RESULTS

		shockpad with drainage			shockpad with ridge surface		
shock absorption in %	1	60,0	57,0	59,0	60,0	59,0	60,0
	2	53,0	51,0	53,0	53,0	54,0	53,0
	3	50,0	48,0	50,0	51,0	51,0	50,0
	avg	51,5	49,5	51,5	52,0	52,5	51,5
	avg tot.	50,8			52,0		
deformation in mm	1	6,8	6,0	6,5	7,1	6,9	7,0
	2	6,3	5,6	6,1	6,5	6,6	6,6
	3	6,1	5,5	6,0	6,4	6,3	6,4
	avg	6,2	5,6	6,1	6,5	6,5	6,5
	avg tot.	5,9			6,5		
energy restitution in %	1	31,0	31,0	31,0	32,0	33,0	31,0
	2	40,0	40,0	40,0	41,0	41,0	41,0
	3	44,0	43,0	43,0	44,0	45,0	44,0
	avg	42,0	41,5	41,5	42,5	43,0	42,5
	avg tot.	41,7			42,7		

THE LARGER TEST SETUP

This setup test was not possible due to the large amount (flow) of water that is necessary to fulfil this test.



DRAINAGE TEST

This test will be done with a infiltrometer, depending on the results another drainage test with a large test setup.

test	norm		result		approved
vertical drainage	≥ 360 mm/h		15211 mm/h		ok



DETAILS



DURABILITY

REFO SPORT 18 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 18 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 18 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 (at the time of revision).
Additional information (e.g. additional characteristics, specif laboratory reports or statistical analysis) is available upon request.
APETEK 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)