

ProPlay-Sport23D

Technical data sheet



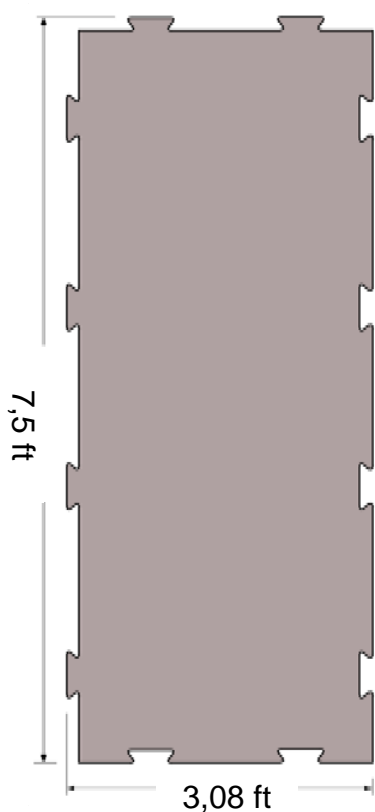
ProPlay-Sport23D professionally designed as a sport technical performance layer for artificial turf sports fields.

Vertical and Horizontal drainage!

As well as the necessary sport technical performance characteristics, the ProPlay-Sport23D has additional (in-plane) drainage channels which ensure adequate gradient drainage of water to complement the vertical drainage capability and in case the artificial turf system is to be built on a sealed or subsequently underperforming existing sub base.



For a prompt installation, the ProPlay-Sport23D is supplied as interlocking panels which are equipped with expansion slots. The installation guide can be downloaded at our website (www.schmitzfoam.com) or available upon request from our sales department.



ProPlay-Sport23D_USA

Physical characteristics

ProPlay-Sport23D consists of thermal bonded (closed-celled) cross-linked Polyethylene foam (PEX). This foam originates from production residues and contains no contaminants. ProPlay-Sport23D is fully tested based on microbiological resistance (according EN 12225) resistance to: weathering (according EN 12224), oxidation (according EN-ISO 13438), acids & bases (according EN 14030). The predicted durability of PEX is a 100 years minimum (according ISO/TR 13434).

ProPlay-Sport23D is tested by simulated mechanical wear using the Lisport wear test. Even after 65.000 cycles (Lisport simulated average 30* year usage) there are hardly any differences in sport technical characteristics (SA,VD, HIC).

The ProPlay-Sport23D is tested on simulated ageing weatherability according EN 13744 and EN 13817. This ageing test has virtually no influence on the dimensional properties of ProPlay-Sport23D.

* based on 1 cycle = 1 hour of usage and 2080 hours of usage per year (average usage of 52 weeks a year and 40 hrs a week)

Technical data

Physical

Thickness at 0,3 psi (2kPa) load	0,91	in	
Mass per unit area	0,82	lb/ft ²	

Strength

Tensile	38	psi	ASTM D 3575 / EN 12230
Compressive at 25% deflection	16	psi	ASTM D 3575
Thickness after 72 hr recovery	0,90	in	
Compressive at 50% deflection	79	psi	ASTM D 3575
Thickness after 72 hr recovery	0,89	in	

Performance

Impact attenuation [gmax]*	80-110		ASTM F 355-A
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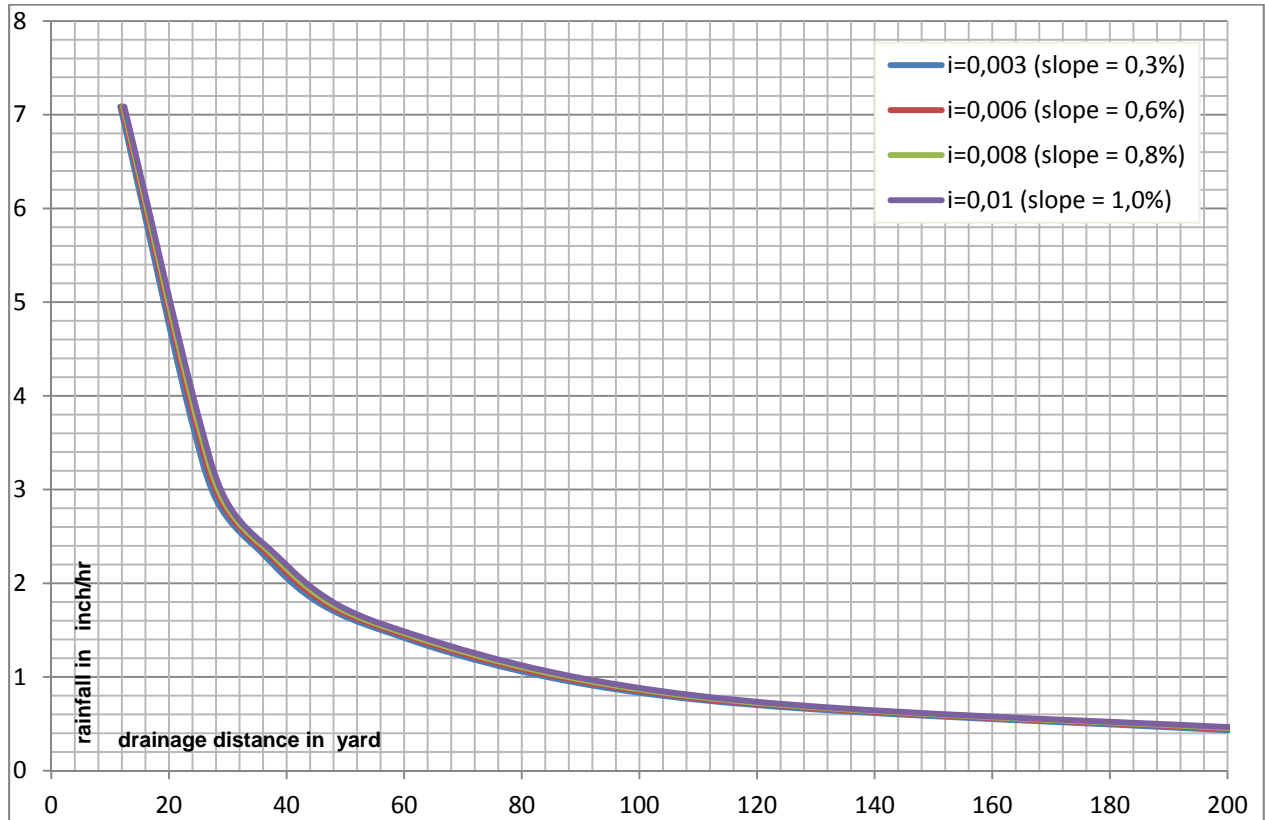
Drainage and isolation

Water flow rate under 2 in (51 mm) hydraulic head	15	gpm/ft ²	ASTM D 4491 / EN ISO 11058
(resulting) Water permeability by permittivity	6,8	gpm/ft ²	ASTM D 4491 / EN ISO 11058
In-plane water flow rate at 0.3 psi (2 kPa) load and 0.005 hydraulic gradient (0.5% slope)	0,77	gpm/ft	ASTM D 4716 / EN ISO 12958
(resulting) Hydraulic transmissivity [θ]	155	gpm/ft	ASTM D 4716 / EN ISO 12958
Thermal conductivity [λ10]	0,03	BTU/hr.ft.°F	ASTM C 177 / EN 12667
(resulting) Thermal resistance [R-value]	2612	hr.ft ² .°F/BTU	ASTM C 177 / EN 12667

* Results will vary depending on actual field configuration and final cross-section design

Drainage graph

Drainage distance [m] versus rainfall [mm/h] at different gradients. Measured according to the LND method.



The provided information is, to the best of our knowledge, true and accurate (at the time of revision). This information is based on (independent) measurements and (where possible) based on average values, measured over a long and representative period. Additional information (e.g. additional characteristics, specific (independent) reports or statistical analysis) is available upon request. Schmitz Foam Products is allowed to change this information and/or the product (without notice) and assumes no legal responsibility for use of and/or reliance on this information.