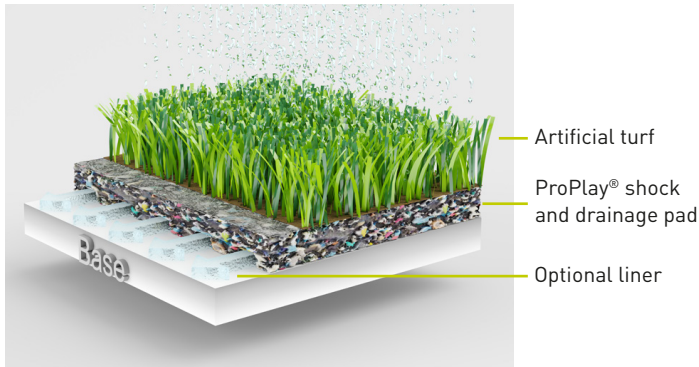


### GENERAL INFORMATION



Artificial turf system with ProPlay®-Sport shock and drainage pad



Puzzle shaped ProPlay® sheets with expansion slots and drainage channels

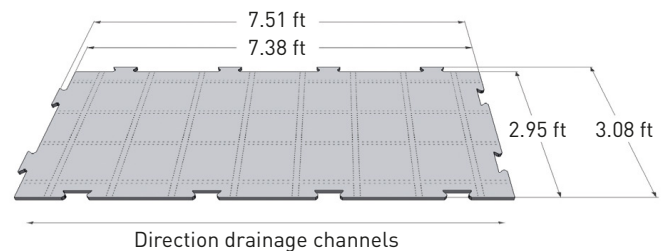


### Product description

**ProPlay®-Sport** is a high performance shock and drainage pad, and the perfect basis of design for high-quality synthetic turf systems being utilized for sports fields, multi-use, and play areas.

ProPlay®-Sport is made of thermal bonded (closed-cell) cross-linked polyethylene foam (XLPE). This foam originates from production remnants and overruns and contains no contaminants.

**ProPlay®-Sport20D** is designed as a sport technical layer for synthetic turf sports fields. The product performs in all weather conditions and is renowned for its excellent water permeability. ProPlay®-Sport20D is delivered with in-plane drainage channels, offering superior lateral drainage when the artificial grass system is to be installed on an impermeable base.



Dimensions ProPlay®-Sport20D sheet and direction drainage channels

### ENVIRONMENT, HEALTH AND SAFETY CREDENTIALS

Cross-linked polyolefins are chemically stable by nature. Any compounds contained in the material will not be released during the lifetime of the product. ProPlay® can be safely used for any synthetic turf system. The products do not leach chemicals that pose a risk for the environment and/or human health.

ProPlay®-Sport complies with:

- The state of California's Code of Regulations (CCR):
  - Title 22 'Social Security' - Division 4.5 'Environmental Health Standards for the Management of Hazardous Waste'.
  - Title 27 'Environmental Protection' - Division 4 'Office of Environmental Health Hazard Assessment' - Chapter 1 'Safe Drinking Water and Toxic Enforcement Act of 1986' (Proposition 65).
- The European Community:
  - Regulation No 1272/2008 of the European Parliament and of the Council on Classification, Labelling and Packaging of substances and mixtures (CLP).
  - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Toxicology requirements from STC Performance and Durability Guidelines for Shock Pads.

### TECHNICAL DATA

Physical characteristics	Tolerance	ProPlay <sup>®</sup> Value	Unit	Standard
Thickness at 0.3 psi load	+/- 0.04	0.79	in	EN-ISO 9863-1
Mass per unit area	+/- 0.07	0.66	lb/ft <sup>2</sup>	EN-ISO 9864

\* As modified by Schmitz Foam Products

Strength characteristics	ProPlay <sup>®</sup> Value	Unit	Standard
Tensile strength	38	psi	ASTM D 3575 (EN 12230)
Compressive at 25% deflection	15	psi	ASTM D 3575
• Thickness after 72 hour recovery	0.78	in	-
Compressive at 50% deflection	52	psi	ASTM D 3575
• Thickness after 72 hour recovery	0.77	in	-

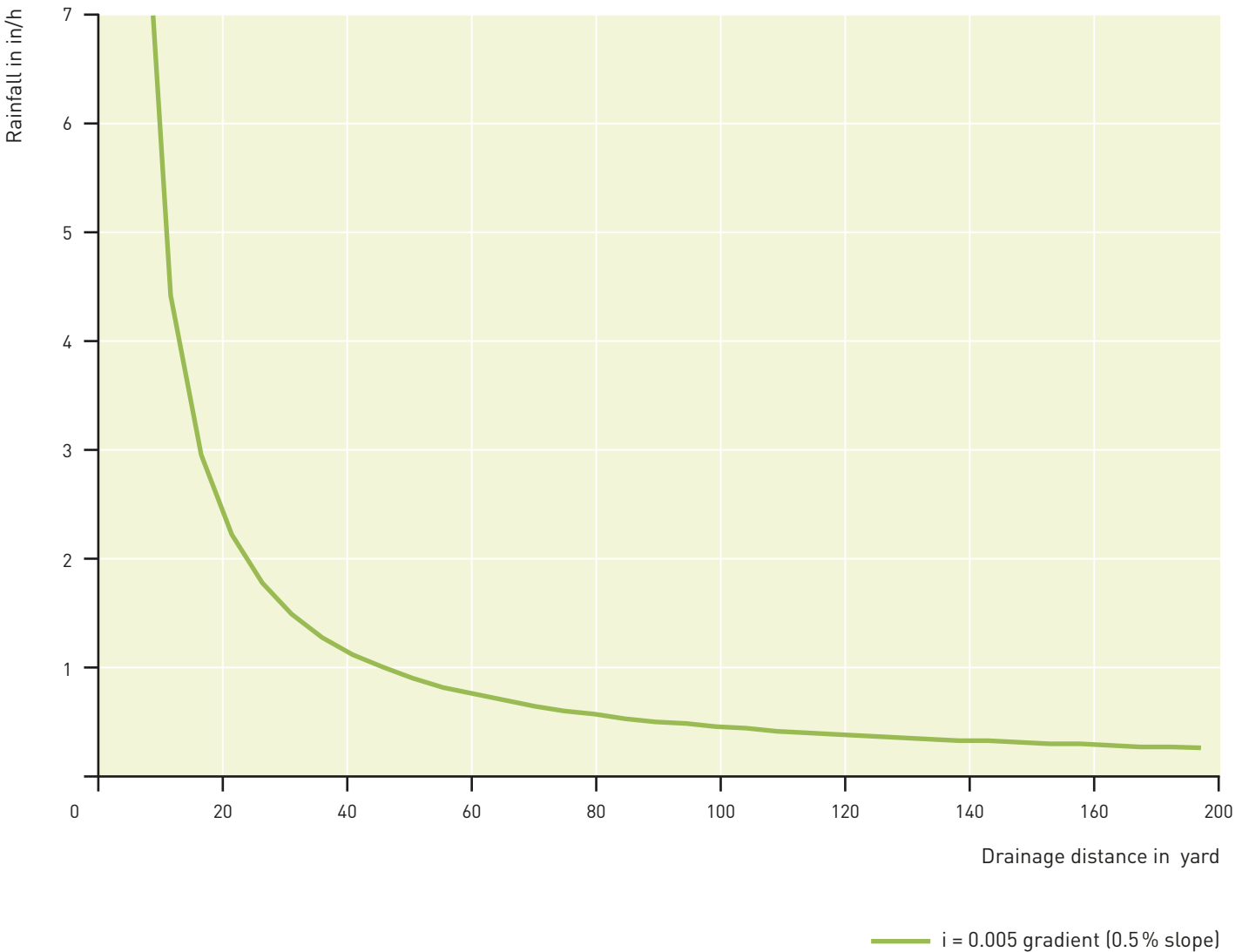
Field performance characteristics	ProPlay <sup>®</sup> Value	Unit	Standard
Impact attenuation (Gmax) in the field*	80-110	-	ASTM F 1936 / F 355-A

\* Results will vary depending on the system and base.

Performance characteristics	ProPlay <sup>®</sup> Value	Unit	Standard
Water flow rate under 2 in (51 mm) hydraulic head	15	gpm/ft <sup>2</sup>	ASTM D 4491 (EN ISO 11058)
• (resulting) Water permeability by permittivity	5.9	gpm/ft <sup>2</sup>	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)	0.53	gpm/ft	ASTM D 4716 (EN ISO 12958)
• (resulting) Hydraulic transmissivity [θ]	106	gpm/ft	ASTM D 4716 (EN ISO 12958)
Thermal conductivity [λ 10]	0.03	BTU/h.ft.°F	ASTM C 177 (EN 12667)
• (resulting) Thermal resistance [R-value]	2.3	h.ft <sup>2</sup> .°F/BTU	ASTM C 177 (EN 12667)

### LATERAL DRAINAGE

Below graph indicates how much rainfall (in inch per hour) a field can handle in relation to its width (in yard), based upon typical field slopes without rainwater rising above the ProPlay<sup>®</sup>-Sport.



Classification	Rainfall (in/h)
Light rain	< 0.079
Moderate rain	0.079 - 0.394
Heavy rain	0.394 - 1.969
Violent rain	> 1.969

### INSTALLATION DISCLAIMER

- Installation of ProPlay<sup>®</sup>-Sport must be done under the code of good workmanship. Schmitz Foam Products LLC does not accept any liability for the design, or construction of any facilities, or actions of any parties employed, as a result of, or in connection with, any information provided in this document.
- It is recommended that the base is designed and approved by an architect or civil engineer, based on the geotechnical and meteorological conditions of the site and any (local) restrictions to the drainage discharge.
- Although ProPlay<sup>®</sup>-Sport can be installed on any kind of base, as long as the construction itself is strong enough to hold installation and maintenance equipment, it is advised that the base has a minimum undrained shear strength of at least 1044 lbf/ft<sup>2</sup> (BS 1377, part 7) or a minimum California Bearing Ratio of 5% (BS 1377, part 4) or equivalent.
- The planarity of the base should be within 3/8 in under a 10 ft straight edge.
- When a ProPlay<sup>®</sup>-Sport "D" variant (for lateral drainage) is applied, the slope of the surface of the base should be at least 0.5%, although 1.0% is better. When the surface of the base can rinse out, it is recommended to use a liner (foil or geotextile).
- One of the inherent properties of ProPlay<sup>®</sup>-Sport is the expansion/shrinkage under influence of temperature. To limit the impact of expansion/shrinkage during installation and to prevent shrinkage after completion of the installation, the ProPlay<sup>®</sup>-Sport Installation Manual must be followed in its entirety.
- ProPlay<sup>®</sup>-Sport is produced in a controlled environment, enabling to measure the sheet sizes in stable conditions. Therefore we can maintain a tolerance in sheet length of - 0.5% / +1.0% at a temperature of 68 °F. Please be aware that measuring the sheet size in different conditions can lead to different outcomes regarding the expansion/shrinkage properties.
- The textile of the ProPlay<sup>®</sup>-Sport should not be exposed to UV-radiation (i.e. daylight) for more than 1 month.
- It is advised to install the synthetic turf within 1 week after installation of the ProPlay<sup>®</sup>-Sport.
- The synthetic turf shall not be glued (or in any other way be attached) to the ProPlay<sup>®</sup>-Sport, since the ProPlay<sup>®</sup>-Sport needs to be able to expand/contract without any hampering.
- It is strongly recommended to stabilize the synthetic turf with at least 3.1 lbs/ft<sup>2</sup> of sand, or (preferably) to use a turf with a fiberglass reinforced backing.
- In any case, it is advised to fix the turf to the perimeter of the field (according to the guidelines of the turf supplier).
- During installation of the ProPlay<sup>®</sup>-Sport or after installation (when installing and filling the synthetic turf) it is allowed to drive over the ProPlay<sup>®</sup>-Sport with installation equipment/machines. The load (per tire) of the installation equipment shall be less than 40 psi for short time frames [e.g. driving over the surface]. Vehicles that are temporarily parked on the surface should have a load of less than 20 psi per tire.

### GENERAL DISCLAIMER

- This ProPlay<sup>®</sup> product data sheet provides general product properties and is not related to specific sportfield and playground installation regulations. Relevant ProPlay<sup>®</sup> shock pad installation instructions can be found in the ProPlay<sup>®</sup> installation recommendation guide. Please note there are separate installation manual for ProPlay<sup>®</sup>-Sport and ProPlay<sup>®</sup> for Playgrounds products.
- The given information is based on (independent) measurements and (where possible) based on average values measured over a long and representative period. Additional information can be made available upon request.
- Great attention to the accuracy of this document was taken during its compilation. This publication supersedes and replaces all previous data sheets. Schmitz Foam Products LLC cannot, however, guarantee the total accuracy of the information included. If you have any doubts or further questions please do not hesitate to contact us by phone 517-781-6620.

Schmitz Foam Products LLC is the global supplier of ProPlay<sup>®</sup>, the perfect shock and drainage pad for high-quality artificial grass systems in sports and fall playgrounds.



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