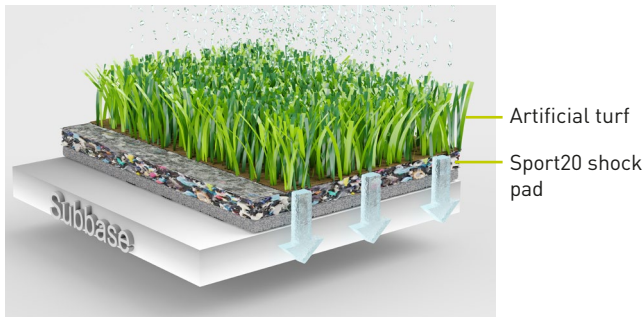


GENERAL INFORMATION



Artificial turf system with Sport20 shock pad



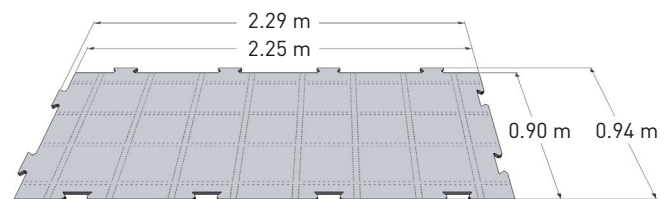
Puzzle shaped sheets with expansion slots

Product description

Sport20 is a high performance shock and drainage pad, and the perfect basis for high-quality artificial grass systems for sports fields, multi-game and play areas.

Sport20 is made of thermal bonded (closed-cell) cross-linked polyethylene foam (XPE) and virgin (closed-cell) cross-linked polyethylene foam (XPE). This foam originates from both production residues and virgin foam and contains no contaminants.

Sport20 performs in all weather conditions and is renowned for its excellent water permeability.



Dimensions Sport20 sheet

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. Sport20 can be safely used for any artificial grass system. The products do not leach chemicals that pose a risk for the environment and/or human health.

Sport20 complies with:

- 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).
- 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).
- Toxicology requirements from ESTC (ESTO) Shock pad Working Group's 'Performance Guide for Shock pad'.

TECHNICAL DATA

Physical characteristics	Tolerance	Value	Unit	Standard
Thickness at 2 kPa (0.3 psi) load	+/- 1	20	mm	EN-ISO 9863-1
Mass per unit area	+/- 0.23	2.3	kg/m ²	EN-ISO 9864

Required characteristics International Sports Associations		Value	Unit	Standard
Tensile strength	> 0.15	0.26	MPa	EN 12230
Tensile strength after (air) ageing acc. EN 13817	> 0.15	0.25	MPa	EN 12230
Water infiltration rate [IA]	> 180	72,000	mm/h	EN 12616

Performance characteristics		Value	Unit	Standard
Force reduction		60	%	AAA*
Energy restitution		48	%	AAA*
Vertical deformation		8.1	mm	AAA*
Shock absorption		61	%	EN 14808
Vertical deformation		6.6	mm	EN 14909
Critical fall height (Head Injury Criterion ~ 1000)		0.68	m	EN 1177
Thermal resistance (R-value)		0.40	m ² .K/W	EN 12667

* Advanced Artificial Athlete

INSTALLATION DISCLAIMER

- Installation of Sport20 must be done under the code of good workmanship. Safefloor ApS 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 subbase 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 Sport20 can be installed on any kind of subbase, as long as the construction itself is strong enough to hold installation and maintenance equipment, it is advised that the subbase has a minimum undrained shear strength of at least 50 kN/m² (BS 1377, part 7) or a minimum California Bearing Ratio of 5% (BS 1377, part 4) or equivalent.
- The regularity of the surface of the subbase should be within 10 mm under a 3 m straight edge.
- When a Sport20 "D" variant (for lateral drainage) is applied, the slope of the surface of the subbase should be at least 0.5%, although 1.0% is better. When the surface of the subbase can rinse out, it is recommended to use a liner (foil or geotextile).
- One of the inherent properties of Sport20 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 Sport20 Installation Manual must be followed in its entirety.
- Sport20 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 20 °C. 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 Sport20 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 Sport20.
- The synthetic turf shall not be glued (or in any other way be attached) to the Sport20, since the Sport20 needs to be able to expand/contract without any hampering.
- It is strongly recommended to stabilize the synthetic turf with at least 15 kg/m² (~3.1 lbs/ft²) 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 Sport20 or after installation (when installing and filling the synthetic turf) it is allowed to drive over the Sport20 with installation equipment/machines. The load (per tyre) of the installation equipment shall be less than 40 psi (~276 kN/m²) 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 (~138 kN/m²) per tyre.

GENERAL DISCLAIMER

- This product data sheet provides general product properties and is not related to specific sportfield and playground installation regulations. Relevant shock pad installation instructions can be found in the installation recommendation guide. Please note there are separate installation manual for Sport20 and 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 datasheets. Safefloor 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 +45 86 15 19 25