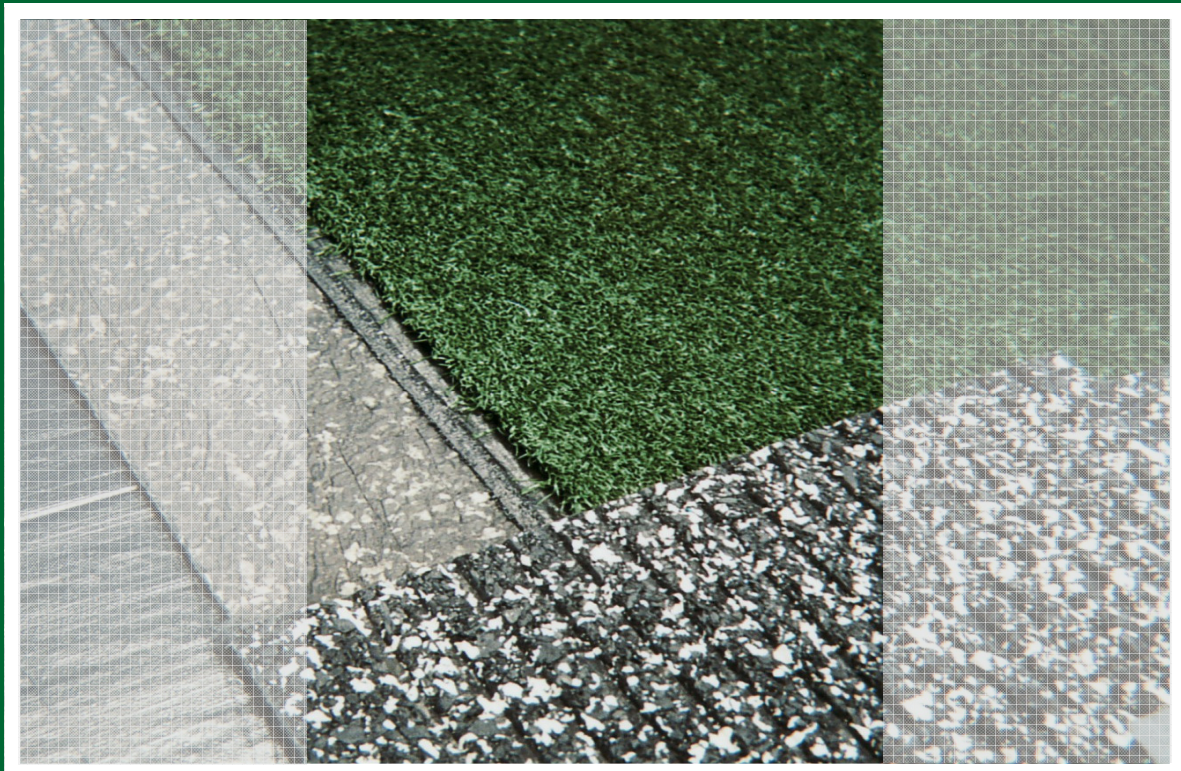


***SPORT DRAIN*MAXTM**

**Drainage & Impact Attenuation Layer
For Synthetic Turf Sport Surfaces and Playgrounds**



An Impact Protection TechnologyTM

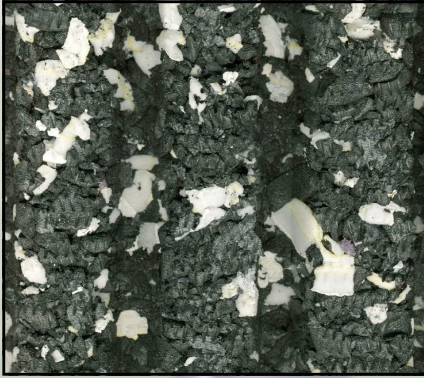


Innovations that protect today's athletes

Patent Pending

SPORT DRAIN_{MAX}

With over 30 years experience developing and implementing *synthetic aggregate systems*, Engineered Sport-field Solutions, LLC has resolved the challenges associated with synthetic turf drainage layers. Sport Drain_{Max} has been specifically developed for drainage directly under synthetic turf.



SPORT DRAIN_{MAX} IS A SUPERIOR DRAINAGE SYSTEM WITH UNIQUE PROPERTIES NOT ATTAINABLE WITH ANY OTHER MATERIAL, SYNTHETIC OR NATURAL.

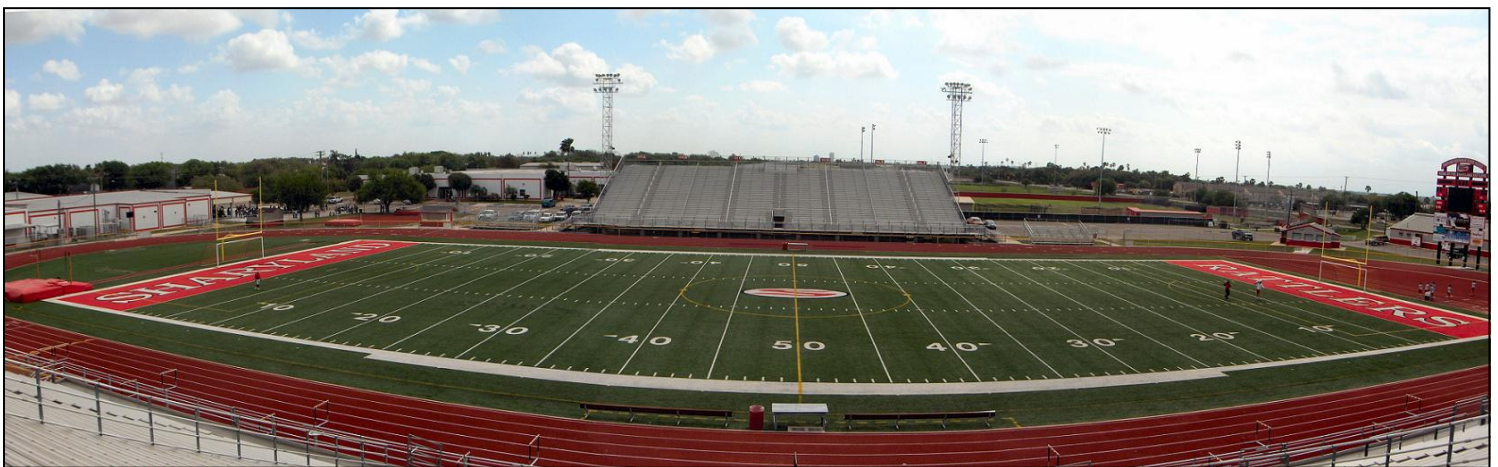
Sport Drain_{MAX}TM System Advantages

- Superior permeability and transmissivity
- Exceptional G_{MAX} shock attenuation
- Suitable base for any type of indoor or outdoor synthetic turf surface
- Cost-effective replacement of natural materials
- Lays flat and stays flat
- Fast, simple installation
- Safe and long-lasting



Made from 100%
Recycled materials

Sport Drain_{Max} (SDM) is produced from cross-link, closed cell polyethylene (PE) foam. The foam is sourced from uncontaminated post-industrial waste. Cross-link PE foam incorporates exceptional hydraulic, mechanical and structural properties not attainable with other materials. These inherent properties make it the ideal raw material for the requirements of **Sport Drain_{Max}**.



Developed in conjunction with experts in the field, Sport Drain_{Max} provides *Best Practice* solutions for synthetic turf drainage. It is produced for optimum sport field installation. With rolls at 4' wide and 210' long, SDM is designed to easily go from one side of the field to the other. The efficient installation of SDM will allow your project to move according to schedule, simply roll out and roll the synthetic turf directly on top.

Impact Protection Technology

Table-top Flat...Conforms to the Subgrade

Flexible, with minimal thermal coefficient of expansion and contraction, **Sport Drain_{Max}** will conform immediately to the subgrade, and can be placed directly on prepared soils, asphalt, concrete, stone or an existing E-Layer.

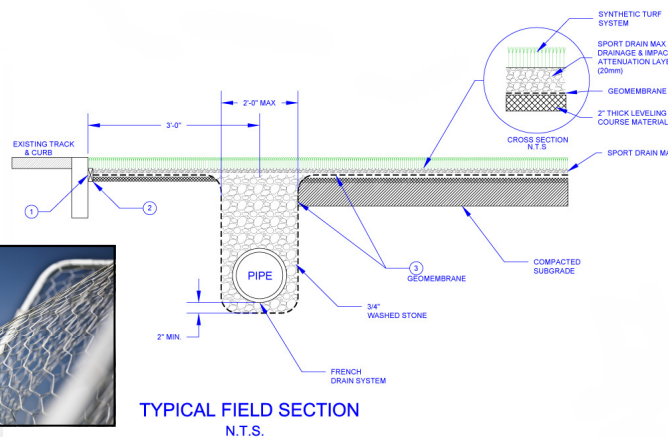


Superior permeability and transmissivity provides rapid water drainage

Sport Drain_{Max} is specifically designed to remove water from the field; a virtual flat pipe directly under your synthetic turf surface. **Time to Drain**, using SDM will be less than 20 minutes compared to hours, days or even months using natural aggregate materials. It is manufactured with built-in permeability and lateral flow properties, easily draining the most severe rainfall event, up to 6" per hour.

Cost saving replacement to natural materials

Using **Sport Drain_{Max}** can eliminate the need for stone drainage layers, substantially reducing the need for excavation, removal and the replacement of aggregate or soil.



Exceptional G-max scores

Sport Drain_{Max} will enhance any turf system, providing a shock attenuation layer (G_{MAX}) directly under the turf surface. Our testing data reports that using SDM on any turf system will result in an improved G_{MAX} score throughout the life of the field.

Safe and Long lasting

Sport Drain_{Max} will last the lifetime of the field and will not degrade or get hard. In fact, preliminary testing indicates it will outlast the synthetic turf itself and may be used for two cycles.

Environmentally friendly...ISO 14001

Sport Drain_{Max} is produced in a *Quality Controlled* environment, from 95% post-industrial crosslink PE foam. This process of manufacturing ensures our customers they will get consistency and quality with every roll.



www.engineeredSPORTfield.com

PRODUCT SHEET

SPORT DRAIN_{MAX}

The drainage material is comprised of recycled cross-linked polyethylene foam bonded with non-woven geotextile on one side of the mat. The product is grooved to promote the product's exceptional drainage capability. The drainage material is conforms to the values and test methods listed below:

PROPERTY	MEASURE	TEST	VALUE
MATERIAL CHARACTERISTICS			
Dimensions ¹			48" x 210' (+/- 5 mm)
Composition	95% Recycled, non-contaminated, post industrial, cross-link, closed cell polyethylene foam		
Weight	Direct		0.9 LBS SF
Thickness	Typical	ASTM 5199	20 mm (+/- 2 mm)
Density	Average	ASTM 3575 Suffix W	10 — 12 LBS/FT ³
Tensile Strength		ASTM D 4595	MD: 40 lbs/inch / TD 39 lbs/inch
HYDRAULIC BEHAVIOR			
Transmissivity ²		ASTM 4716, GRI GC-8	
	Average	500 PSF: 1% Slope	4x10E-02 m2/sec
	Average	500 PSF: 1% Slope	>200 Gal/min/ft
Permittivity	Average	ASTM D 4491	3.235 sec-1
Permeability	Minimum	ASTM D 2434	>34 gal/min/SF
Infiltration Rate	Minimum	BS 7044 Method 4	42 in/hr
FIELD PERFORMANCE			
Shock Attenuation ³	Average	ASTM F 355-A	97 G _{MAX} (Concrete) : HIC 252
			88 G _{MAX} (Aggregate) : HIC 204

- Standard Roll Size 48" x 210', Also available in sheets. Custom rolls sizes available.
- Transmissivity tested by manufacturer every 100,000 square feet of product per ASTM D4716. Testing conditions are: steel plate / geocomposite / geomembrane / steel plate. The seating period is 100 hours.
- Infield GMAX tests available upon request using a variety of infill materials.



Distributed by:
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Sport Drain_{MAX} is manufactured for Engineered Sportfield Solutions, LLC. The information contained herein has been accurately compiled by 3R FOAM, LLC, and to the best of our knowledge accurately represents 3R FOAM product. Final determination of the suitability of any information or material for the use contemplated and its manner is the sole responsibility of the users.