

MATERIAL PROPERTY DATA SHEET



Stormwater Innovation

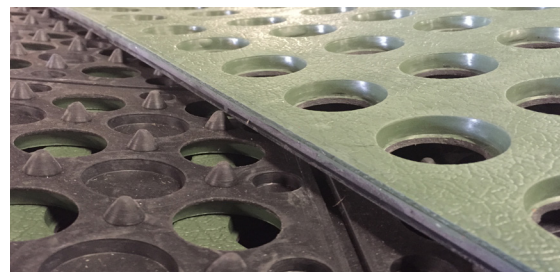
ShoreMax®

Permanent • Flexible • Transition Mat

DESCRIPTION

The MKB Company ShoreMax Transition Mat shall be a resilient rubber mat with surface texture and multi-nib backing. It shall have a large hole drainage system with aperture openings approximately 1.25 in (3.2 cm) in diameter.

ShoreMax mat is a transition mat used as bio-technical replacement for hard armor. ShoreMax mat is mechanically anchored and is a flexible matting that can be installed in transitional areas susceptible to soil scour. ShoreMax mat can provide erosion control in highly erosive areas, including shorelines, and can be used in conjunction with rolled erosion control products.



Material Content		
Matting	100% UV-stabilized natural rubber	2.00 lb/ft ² (10 kg/m ²)
Color	Dark Green	

Standard Roll Sizes		
Width ³	3 ft	(1.0 m)
Length	5 ft	(1.5 m)
Weight ± 10%	30 lb	(13.6 kg)
Area	1.67 SY	(1.39 m ²)
Part Number	SM3575-2	

Index Property	Test Method	Typical	
Thickness	ASTM D6525	0.75 in.	(19 mm)
Mass/Unit Area	ASTM D6566	2.00 lbs/sy	(10 kg/sm)
Tensile Strength – MD	ASTM D6818	606 lbs/ft	(9.0 kN/m)
Tensile Strength – TD	ASTM D6818	625 lbs/ft	(9.25 kN/m)
Elongation - MD	ASTM D6818	100%	
Elongation – TD	ASTM D6818	125%	
UV Stability	ASTM D4355	90% @1000 hr	
Light Penetration	ASTM D6567	20%	
Biomass Improvement	ASTM D7322	240%	
Specific Gravity/Density	ASTM D792	1.63 oz/in ³	(1.5 g/cm ³)
Flexural Rigidity	ASTM D6575	1.97 in-lb	

Design Parameters		
TRM Underlayment	Unvegetated	Vegetated ³
SC250 Permissible Shear	7.5 psf	10.0 psf
Velocity	18 fps	18 fps
C350 Permissible Shear	8.0 psf	12.0 psf
Velocity	19 fps	20 fps
P550 Permissible Shear	8.5 psf	14.0 psf
Velocity	19.5 fps	25 fps
NTPEP ASTM D6460 Large Scale Channel*		

Unvegetated Shear Stress	8.6 psf (412 Pa)
Vegetated Shear Stress	> 12.5 psf (599 Pa)
Unvegetated Velocity	19.5 fps (5.95 m/s)
Vegetated Velocity	> 26.0 fps (7.93 m/s)

* Testing conducted with ShoreMax installed over North American Green P550 Turf Reinforcement Mat

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