

Sure-Seal® EPDM

HP Protective Mat



Overview

Carlisle's Sure-Seal HP Protective Mat is a nominal 6 oz. per square yard (159 gm per square meter), UV-resistant, polypropylene, needle-punched fabric. HP Protective Mat is installed atop EPDM roofing membrane as a slip sheet for crushed stone or pavers, or below the EPDM membrane as a minimum underlayment mat in mechanically fastened or ballasted systems.

Features and Benefits

- » Provides added protection against membrane punctures
- » Can be used in applications above or below roofing membrane
- » UV-resistant

Sure-Seal HP Protective Mat

Roll Size	15' x 300' (4.6m x 92m)
Area per Roll	4,500 sq ft (405 sq meters)
Weight per Roll	175 lbs. (69 Kg)
Thickness	.065 in. (1.65 mm)
Roll Diameter	18 in. (460 mm)

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Installation

Mechanically Fastened Systems:

When specified under EPDM membrane, install HP Protective Mat over the substrate, overlapping all edges by a minimum of 3" (75 mm).

HP Protective Mat must be fastened to the roof deck; however, in mechanically fastened systems, the seam fastening plates used to secure the membrane will provide adequate fastening for the mat.

When HP Protective Mat is not secured by the seam fastening plates used to secure the membrane, an acceptable fastener and plate must be installed every 50 linear feet (15 m). Spot-bonding the HP Protective Mat with bonding adhesive is an acceptable alternative to mechanical fastening.

Ballasted Systems:

When specified under EPDM membrane, position HP Protective Mat loosely over the substrate, overlapping all edges by a minimum of 6" (150 mm).

The EPDM membrane must be positioned to completely cover the previously installed HP Protective Mat.

When utilized above EPDM membrane (underneath pavers or crushed stone), position HP Protective Mat loosely over the membrane after completing all membrane and flashing splices. Adjacent edges must be overlapped a minimum of 6" (150 mm); end rolls must overlap 12" (300 mm). Prior to placement of ballast, extend the HP Protective Mat a minimum of 2" (50 mm) above the anticipated ballast level at the perimeter and penetrations (except roof drains and scuppers).

The HP Mat must extend to drain bases and scupper openings but must not cover or restrict flow to the drains. Additional matting must be installed around penetrations to prevent direct contact between crushed stone and flashing.

Note: Following placement of the HP Mat, install ballast, temporary ballast, or spot-adhere with bonding adhesive to prevent any movement of unballasted HP Mat.

Precautions

- » This product is not hazardous as defined in CFR 1910.1200.
- » Dust may be irritating to respiratory tract and eyes.
- » Material is flammable. Do not expose to open flame.

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Typical Properties and Characteristics

Physical Property	ASTM Test Method	Average Roll Values
Tensile Strength (Grab)	D 4632	120 lbs. (51 Kg)
Burst Strength (Mullen)	D 3786	100 psi (689 kPa)
Elongation (Ultimate)	D 4632	> 50%
Puncture Strength	D 4833	40 lbs. (18 Kg)
Trapezoidal Tear	D 4533	50 lbs. (23 Kg)
UV Resistance (500 Hr St. Ref)	D 4355	> 70%
Permeability Coefficient	D 4491	0.2 cm/sec
pH Resistance		2 – 13

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LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Athens, GA