



SURE-SEAL

.060" STANDARD & FR EPDM MEMBRANES

DESCRIPTION

Sure-Seal .060"-thick (1.52 mm) roofing membranes are factory fabricated, Ethylene Propylene Diene Terpolymer (EPDM) based elastomeric homogenous roof coverings which may be used for a variety of waterproofing and applications. Membranes are available in widths up to 50' (15 m) and lengths up to 200' (61 m). Fire Retardant (FR) membranes are specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for fire retardant roofing membranes.

INSTALLATION

Sure-Seal .060" (1.52 mm) membranes are utilized in Design A, Fully-Adhered (.060" only); Design B, Ballasted Roofing Systems and Design C, Loose Laid Protected Roofing System. Design A, Fully-Adhered Roofing System/Waterproofing System: The substrate and membrane are coated with Carlisle Bonding Adhesive. The membrane is then rolled into place and brushed down. Splicing cement and In-Seam Sealant are applied to the splice area and lap sealant is used on the splice edge. As an alternate, SecurTape may be used for splicing.

Consult Carlisle specifications for complete installation information.

TECHNICAL DATA

--- Typical ---

Physical Property	Test Method	SPEC.(Pass)	Standard	FR
Tolerance on Nominal Thickness, %	ASTM D 412	±10	±10	±10
Weight, 1bm/ft ² (kg/m ²)				
.045		...	0.26 (1.3)	0.26 (1.3)
.060			0.35 (1.7)	0.35 (1.7)
Tensile Strength, min, psi (Mpa) ASTM D 412	1305 (9)	1630 (11.2)	1630 (11.2)	
Elongation, Ultimate, min, %	ASTM D 412	350	520	520
Tear Strength, min, lbf/in (kN/m) ASTM D 624	175 (30.6) (Die C)	230 (40.3)	230 (40.3)	
Factory Seam Strength, min. Modified ASTM D 816 Rupture	Membrane Rupture	Membrane Rupture	Membrane	
Resistance to Heat Aging* Properties after 4 weeks @ 240°F (116°C)	ASTM D 573			
Tensile Strength, min, psi (MPa)ASTM D 412	1205 (8.3)	1600 (11.0)	1600 (11.0)	
Elongation, Ultimate, min, %ASTM D 412	225	310	310	
Tear Strength, min, lbf/in (kN/m)ASTM D 624	150 (26.3)	240 (42.0)	240 (42.0)	
Linear Dimensional Change, max, %	ASTM D 1204	±1.0	-0.4	-0.4
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg. C)*	ASTM D 746	-75 (-59)	-85 (-65)	-85 (-65)
Resistance to Water Absorption*ASTM D 471 After 7 days immersion @ 158°F (70°C) Change in mass, max, %		4.0	2.0	2.0
Water Vapor Permeance* max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.05	0.05
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temp.	ASTM G 4637 Conditions	No Cracks No Cracks	No Cracks No Cracks	No Cracks No Cracks

CAUTIONS AND LIMITATIONS

Use proper stacking procedures to ensure sufficient stability of the materials. Exercise caution when walking on wet membrane. Membranes are slippery when wet.

LIMITED WARRANTY

CARLISLE COATINGS & WATERPROOFING INCORPORATED (CARLISLE) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any CARLISLE materials prove to contain manufacturing defects that substantially effect their performance, CARLISLE will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by CARLISLE with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. CARLISLE specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of CARLISLE'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the CARLISLE material in question.

