

Sure-Flex™ PVC

Reinforced Coverstrip



Overview

Carlisle's Sure-Flex PVC Reinforced Coverstrip is an 8" (20.3 cm)-wide, nominal 80-mil (2.03 mm)-thick PVC flashing that contains a polyester reinforcing fabric. Available in white, gray, and tan, PVC Reinforced Coverstrip is used for stripping in rows of fasteners and plates and covering the butt joints of Sure-Flex PVC and FleeceBACK® PVC membranes. This product's smooth surface allows a total surface fusion weld over a wide temperature range, facilitating a consistent, watertight roof system.

Note: PVC Reinforced Coverstrip cannot be used to flash corners, pipes, t-joints, any angled metal flanges such as gravel stops, or other canted metal edgings.

Carlisle's Sure-Flex PVC Reinforced Coverstrip is part of the Certified Fabricated Accessory (CFA) program. CFAs are the only factory-fabricated PVC accessories that meet the stringent quality tolerances required for inclusion in a Carlisle warranted roofing system.

Features and Benefits

- » Excellent chemical resistance
- » Wide window of weldability
- » Low-temperature flexibility
- » Impact and puncture resistant
- » Easy installation
- » Outstanding solar, UV, ozone, and oxidation resistance
- » Available in White, Gray, and Tan

Installation

Stripping in fasteners and plates: Cut PVC Reinforced Coverstrip to the proper length and install atop the row of fasteners and plates, maintaining a 1 ½" (3.8 cm) width of Coverstrip on both sides of the row. Tack weld to hold in place; then, using a handheld hot air welder or an automatic hot air welding machine, properly weld all edges of the Coverstrip to ensure a watertight seal. Maintain a 1 ½" (3.8 cm)-wide weld on all edges.

Review Carlisle specifications and details for complete installation information.

Precautions

- » Sunglasses that filter out ultraviolet light are strongly recommended, as the membrane's white surface is highly reflective to sunlight. Roofing technicians should dress appropriately and wear sunscreen.
- » Smooth surfaces may be slippery due to frost and ice buildup. Exercise caution during cold conditions to prevent falls.
- » Care must be exercised when working close to a roof edge, particularly when the surrounding area is snow-covered, as the roof edge may not be clearly visible.
- » Use proper stacking procedures to ensure sufficient stability of the materials.
- » Exercise caution when walking on wet membrane. Membranes may be slippery when wet.
- » Store PVC Reinforced Coverstrip in its original container.

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Typical Properties and Characteristics				
Physical Property	ASTM D4434 Requirement	50-mil	60-mil	80-mil
Thickness over scrim , in. (mm) ASTM D4434 optical method average of 3 areas	0.016 min (0.40)	0.021 (0.533)	0.025 (0.635)	0.034 (0.864)
Weight , lbs/ft ² (kg/m ²)	No requirement	0.33 (1.61)	0.40 (1.95)	0.55 (2.68)
Breaking strength (MD x CD), lbf/in (kN/m) ASTM D751 grab method	275 min (48)	320 x 300 (56 x 53)	330 x 300 (58 x 55)	360 x 330 (63 x 58)
Elongation break of reinforcement (MD x CD), % ASTM D751 grab method	25 min	30 x 30	30 x 30	30 x 30
Seam strength , min. ASTM D751 grab method (% of breaking strength)	>75	PASS	PASS	PASS
Tearing strength (MD x CD), lbf (N) ASTM D751 proc. B, 8 in. x 8 in.	90 min (400)	100 x 120 (445 x 534)	100 x 130 (445 x 578)	100 x 132 (445 x 587)
Low temperature bend , ASTM D2135, no cracks 5x at -40°C	PASS	PASS (-40°C)	PASS (-40°C)	PASS (-40°C)
Linear dimensional change , % ASTM D1204, 6 hours at 176°F	±0.5 max	0.4	0.4	0.4
Ozone resistance , no cracks 7x ASTM D1149, 100pphm, 168 hrs	PASS	PASS	PASS	PASS
Water absorption resistance , mass % ASTM D570, 166 hours at 158°F water	±3.0 max	2.0	2.0	2.0
Field seam strength , lbf/in. (kN/m) ASTM D1876 tested in peel	No requirement	25 (4.4) min 60 (10.5) typ.	25 (4.4) min 60 (10.5) typ.	25 (4.4) min 60 (10.5) typ.
Water vapor permeance , Perms, ASTM E96 proc. B	No requirement	0.10 max 0.05 typ	0.10 max 0.05 typ	0.10 max 0.05 typ
Puncture resistance – Federal, lbf (kN) FTM 101C, method 2031	No requirement	280	320	380
Puncture resistance – Dynamic, J (ft-lbf) ASTM D5635	20 (14.7)	PASS	PASS	PASS
Puncture resistance – Static, lbf (N) ASTM D5602	33 (145)	PASS	PASS	PASS
Xenon-Arc resistance , no cracks/crazing 10x, ASTM G155 0.35 W/m ² at 340-nm, 63°C B.P.T. 12,600 kJ/m ² total radiant exposure 10,000 hours	PASS	PASS	PASS	PASS
Properties after heat aging , ASTM D3045, 56 days at 176°F Breaking strength, % retained Elongation reinf., % retained	90 min 90 min	90 min 90 min	90 min 90 min	90 min 90 min

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.

Radiative Properties for ENERGY STAR [®] *, Cool Roof Rating Council (CRRC), and LEED [®]				
Physical Property	Test Method	Gray PVC	Tan PVC	White PVC
ENERGY STAR – E-903 Initial Solar Reflectance	Solar Spectrum Reflectometer	0.59	0.73	0.87
ENERGY STAR – E-903 Solar Reflectance after 3 years	Solar Spectrum Reflectometer (Uncleaned)	pending	pending	0.61
CRRC – Initial Solar Reflectance	ASTM C1549	0.59	0.73	0.87
CRRC – Solar Reflectance after 3 years	ASTM C1549 (uncleaned)	pending	pending	0.61
CRRC – Initial Thermal Emittance	ASTM C1371	0.85	0.86	0.95
CRRC – Thermal Emittance after 3 years	ASTM C1371 (uncleaned)	pending	pending	0.86
Solar Reflective Index (SRI)	ASTM E1980	69	89	111
Solar Reflective Index (SRI) after 3 years	ASTM E1980	pending	pending	72

LEED Information	
Pre-consumer Recycled Content	10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI)	White: 111

Supplemental Approvals, Statements and Characteristics

- » Sure-Flex PVC meets or exceeds the requirements of ASTM D4434 Standard Specification for Poly (Vinyl Chloride) Sheet Roofing. Sure-Flex PVC is classified as Type III and/or Type IV as defined by ASTM D4434.
- » Sure-Flex reinforced PVC was tested for dynamic puncture resistance per ASTM D5635-04 using the most recently modified impact head. 50-mil thick membrane was watertight after an impact energy of 22.5 J (16.6 ft-lbf), which passes the ASTM D4434 requirement.
- » Sure-Flex reinforced PVC was tested for static puncture resistance per ASTM D5602-98 and exceeded 33 lbf (145 N), which passes the ASTM D4434 requirement.