

Sure-Flex™ PVC Membrane

PRRF20250705



Overview

Carlisle's Sure-Flex PVC is an advanced-formula, heat-weldable PVC membrane that is designed for long-term weatherability and performance. The physical properties of the membrane are enhanced by a tenacious, anti-wicking, weft-inserted polyester fabric that is encapsulated by thick PVC-based top and bottom plies. The membrane's smooth surfaces facilitate a permanent weld for a consistent, watertight, monolithic roof assembly.

Features and Benefits

- » Exceptional fire and chemical resistance
- » Fully formulated monolithic top-ply for long-term weatherability
- » Enhanced physical characteristics meeting ASTM D4434 Type IV requirements
- » Antimicrobials throughout the polymer for increased resistance to mold, mildew, and algae growth
- » Highly flexible with a wide window of weldability for ease of installation
- » Available colors:



Sustainable Attributes

Carlisle SynTec Systems' focus has always been innovation - Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Carlisle is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- » PVC polymer derived from less than 50% fossil fuels
- » Up to 10% pre-consumer recycled content
- » Fully recyclable when used in mechanically-attached systems
- » 3rd-party verified Environmental Product Declaration available
- » California Title 24 compliant*
- » See Radiative Properties and LEED Information tables below for additional attributes

*White only.

Installation

Installation requires minimal labor and few components, making it quick and easy to install. Sheet seams are heat-welded together using hot-air welding equipment to create a monolithic, water-tight roof system.

Sure-Flex PVC is suitable for the following roof systems:

Fully-Adhered – membrane is adhered to a suitable substrate utilizing an appropriate bonding adhesive

Mechanically Fastened – membrane is attached to a suitable substrate utilizing plates and fasteners which are overlapped with membrane

Induction-Welded – membrane is attached to a suitable substrate via an induction welding tool being placed over the membrane where a fastened PVC induction welding plate is located to weld the two components together

Review Carlisle specifications and details for complete installation information.

Sure-Flex PVC Membrane

Precautions

- » Sunglasses that filter out ultraviolet light are strongly recommended when working on reflective membranes. Roofing technicians should dress appropriately and wear sunscreen.
- » Exercise caution when walking on wet membranes; membranes may be slippery when wet or due to frost and ice buildup.
- » Care must be exercised while working close to a roof edge 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.
- » Store membrane in its original, undisturbed plastic wrap in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins.
- » Membrane that has been exposed to the weather or contaminated with dirt must be prepared with Sure-Flex PVC/KEE HP Membrane Cleaner prior to hot-air welding.

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.

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)	0.022 (0.559)	0.027 (0.686)	0.037 (0.940)
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 (N) ASTM D751 grab method	275 min (1223)	320 x 300 (1423 x 1334)	330 x 300 (1468 x 1334)	360 x 330 (1601 x 1468)
Elongation break of reinforcement (MD x CD), % ASTM D751 grab method	25 min	30 x 30	30 x 30	30 x 30
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 D2136, 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
Air Permeance ASTM E2178	No requirement	PASS	PASS	PASS

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.

Sure-Flex PVC

Membrane

Radiative Properties for Cool Roof Rating Council (CRRC) and LEED

Physical Property	Test Method	White PVC	Tan PVC	Gray PVC	Light Gray PVC	Slate Gray PVC
CRRC - Initial Solar Reflectance	ASTM C1549	0.87	0.72	0.59	0.74	N/A
CRRC - Solar Reflectance after 3 years	ASTM C1549 (uncleaned)	0.70	0.56	0.49	0.59	N/A
CRRC - Initial Thermal Emittance	ASTM C1371	0.89	0.87	0.89	0.88	N/A
CRRC - Thermal Emittance after 3 years	ASTM C1371 (uncleaned)	0.88	0.87	0.89	0.89	N/A
Solar Reflective Index (SRI)	ASTM E1980	110	89	70	91	N/A
Solar Reflective Index (SRI) SRI after 3 years	ASTM E1980	86	65	57	70	N/A

LEED® Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI), Initial	White: 110, Tan: 89, Gray: 70, Light Gray: 91, Slate Gray: N/A



Carlisle EPS Flute Fill



Overview

Carlisle SynTec Systems' flute fill is a custom-made, engineered insulation consisting of a superior closed-cell, lightweight expanded polystyrene (EPS). Carlisle flute fill is manufactured to meet or exceed the requirements of ASTM C578 Standard Specification for rigid, cellular polystyrene thermal insulation. Carlisle flute fill can be manufactured in a range of sizes, densities, thicknesses and profiles to meet any job-specific needs.

Features and Benefits

- » Lightweight and easy to handle and install
- » Contains up to 25% recycled material
- » 100% recyclable foam core

Product Characteristics

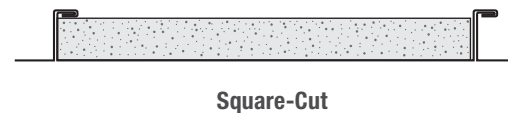
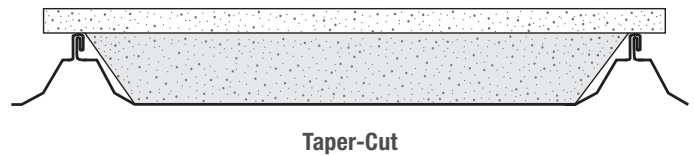
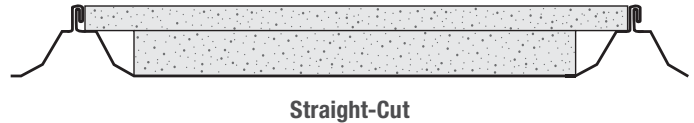
- » Standard density: 1.0# EPS
- » Compressive Strength: Minimum 10 psi
- » R-Value: 3.85R per inch

Codes and Compliances

- » Manufactured in accordance with ASTM C578
- » UL Standard 790 & 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)

Applications

Carlisle flute fill is specifically manufactured for use as a component in a recover roof system over existing standing seam metal roof systems. Available in taper-cut or square-cut, EPS Flute fill is installed within the flutes of a standing seam metal roof.



Installation Considerations

1. Install only as much insulation as can be covered by a roof membrane system, and/or made watertight by the end of each day.
2. EPS flute fill should not be exposed directly to solvent- or petroleum-based adhesives and sealants.
3. Utilize code approval tables below for designing with EPS flute fill.

Typical Properties and Characteristics

Property	Type I	Test Method
Nominal Density (pcf)	1	ASTM C303
C-Value (Conductance) - per inch BTU/(hr•ft ² •°F)	0.26	ASTM C518
R-Value (Thermal Resistance) - per inch (hr•ft ² •°F)/BTU	3.85	ASTM C518
Compressive Strength (psi, 10% deformation)	10–14	ASTM D1621
Flexural Strength (min. psi)	25	ASTM C203
Dimensional Stability (maximum %)	2.0	ASTM D2126
Water Vapor Permeance (max. perm., 1 inch)	5.0	ASTM E96
Water Absorption (max. % vol.)	4.0	ASTM C272
Capillarity	None	–
Flame Spread	< 20	ASTM E84
Smoke Developed	150–300	ASTM E84

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.

Carlisle EPS Flute Fill

Code Approval Tables

Mechanically-Fastened Membranes

TPO Metal Retrofit with EPS Flute-Fill				
	System 1	System 2	System 3	System 4
Deck	Metal Roof	Metal Roof	Metal Roof	Metal Roof
Flute-Fill	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)
Cover Board	min. 1" SecurShield™/InsulBase	½" SecurShield HD	min. ¼" gypsum	min. ¼" gypsum
TPO	45 mil, 60 mil, 80 mil	45 mil, 60 mil, 80 mil	45 mil, 60 mil	80 mil
Slope	½" max. (HS-1" max.)	½" max. (HS-1" max.)	3" max.	2.5" max.

1. HS = High Slope TPO

Adhered Membranes

TPO Metal Retrofit with EPS Flute-Fill				
	System 1	System 2	System 3	System 4
Deck	Metal Roof	Metal Roof	Metal Roof	Metal Roof
Flute-Fill	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)
Cover Board	min. 1" SecurShield/InsulBase	½" SecurShield HD	min. ¼" gypsum	min. ¼" gypsum
TPO	45 mil, 60 mil, 80 mil	45 mil, 60 mil, 80 mil	45 mil, 60 mil	80 mil
Slope	¼" max. (HS - ½" max.)	¼" max. (HS - ½" max.)	3" max. (HS - unlimited)	max. 2.5" (HS - unlimited)

1. HS = High Slope TPO

PVC Metal Retrofit with EPS Flute-Fill			
	System 1	System 2	System 3
Deck	Metal Roof	Metal Roof	Metal Roof
Flute-Fill	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)
Cover Board	Min. 1" SecurShield/InsulBase	½" SecurShield HD	min. ¼" gypsum
PVC	50 mil, 60 mil, 80 mil	50 mil, 60 mil, 80 mil	50 mil, 60 mil, 80 mil
Slope	1" max.	1" max.	Unlimited

PVC Metal Retrofit with EPS Flute-Fill			
	System 1	System 2	System 3
Deck	Metal Roof	Metal Roof	Metal Roof
Flute-Fill	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)
Cover Board	Min. 1" SecurShield/InsulBase	½" SecurShield HD	min. ¼" gypsum
PVC	50 mil, 60 mil, 80 mil	50 mil, 60 mil, 80 mil	50 mil, 60 mil, 80 mil
Slope	1" max.	1" max.	Unlimited

EPDM Metal Retrofit with EPS Flute-Fill			
	System 1	System 2	System 3
Deck	Metal Roof	Metal Roof	Metal Roof
Flute-Fill	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)
Cover Board	Min. 1" SecurShield/InsulBase	½" SecurShield HD	min. ¼" gypsum
Reinforced	45 mil, 60 mil, 75 mil	45 mil, 60 mil, 75 mil	45 mil, 60 mil, 75 mil
Slope	½" max.	½" max.	3" max.

EPDM Metal Retrofit with EPS Flute-Fill			
	System 1	System 2	System 3
Deck	Metal Roof	Metal Roof	Metal Roof
Flute-Fill	Type I EPS (1 lb)	Type I EPS (1 lb)	Type I EPS (1 lb)
Cover Board	Min. 1" SecurShield/InsulBase	½" SecurShield HD	min. ¼" gypsum
Non-reinforced	45 mil, 60 mil, 90 mil	45 mil, 60 mil, 90 mil	45 mil, 60 mil, 90 mil
Slope	½" max.	½" max.	Unlimited

Manufacturer

Georgia-Pacific Gypsum Georgia-Pacific Canada
133 Peachtree Street 2180 Meadowvale Boulevard, Suite 200
Atlanta, GA 30303 Mississauga, ON L5N 5S3
Technical Service Hotline: 1-800-225-6119

Description

DensDeck® Prime Roof Board has been enhanced to provide a broader compatibility and higher performance with roofing adhesives. Face mat enhancements allow adhesives to be applied more uniformly and consistently. In adhered, single ply membrane testing, enhanced DensDeck Prime demonstrated an average of 24% better bond than the original products, when using solvent based adhesives. (Average based on 60 sq.ft./gal coverage rates.)* Choose DensDeck Prime Roof Boards for adhered and self-adhered "peel & stick" roofing systems, as well as hot mopped, cold mastic and torch-applied modified bitumen roofs. Enhanced DensDeck Prime Roof Boards create a stronger and more economical installation by reducing the amounts of mastic or adhesive used and potentially eliminates the field primer. Consult with membrane manufacturer for actual priming requirements.

DensDeck Prime Roof Boards are the first and only fiberglass mat gypsum roof boards with a 90-day weather exposure limited warranty when applied vertically on a parapet wall.** (Limited to 1/2" and 5/8" products only.)

Primary Uses

Roof system manufacturers and designers have found DensDeck Prime Roof Board to be compatible with many types of roofing systems, including: modified asphalt, single-ply, metal systems, recover board, as well as an overlayment for polyisocyanurate and polystyrene insulation. DensDeck Prime Roof Board can also be used as a form board for poured gypsum concrete deck in roof applications as well as a substrate for spray foam roofing systems. 1/2" (12.7 mm) and 5/8" (15.9 mm) DensDeck Prime Roof Board may also be used in vertical applications as a backer board or liner for the roof side of parapet walls.

DensDeck Prime Roof Board may allow the bonding of cold mastic modified bitumen and torching directly to the surface. *Consult with the system manufacturer for recommendations on this application.*

DensDeck Prime Roof Board is the preferred substrate for vapor retarders.

Standards and Code Approvals

DensDeck Prime Roof Boards are manufactured to meet ASTM C1177 and have the following approvals:

- Florida Product Approved
- Miami-Dade County Product Control Approved

Recommendations and Limitations

DensDeck Prime Roof Boards are manufactured to act with a properly designed roof system following good roofing practices. The actual use of DensDeck Prime Roof Board as a roofing component in any system or assembly is the responsibility of the roofing system's design authority. Consult with the appropriate system manufacturer and/or design authority for system and assembly specifications and instructions on applying other products to DensDeck Prime Roof Board. Georgia-Pacific does not warrant and is not responsible for any systems or assemblies utilizing DensDeck Prime Roof Board or any component in such systems or assemblies other than DensDeck Prime Roof Board.

The need for a separator sheet between the DensDeck Prime Roof Board and the roofing membrane must be determined by the roof membrane manufacturer or roofing system designer.

* Testing was done in accordance with FM approvals 4470, Appendix C: Small Scale Tests, Membrane Delamination Tests for Roofing Membranes and Substrates Using Tensile Loading.

** For complete warranty details, visit www.DensDeck.com. (Limited to 1/2" and 5/8" products only.)

Confirm any priming requirements with the membrane manufacturer. When applying solvent-based adhesives or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components.

DensDeck Prime Roof Boards should not be subjected to abnormal or excessive loads or foot traffic, such as, but not limited to, use on plaza decks or under steel-wheeled equipment that may fracture or damage the panels. Provide suitable roofing system protection when required.

When using DensDeck Prime Roof Boards for hot-mopped applications, Georgia-Pacific recommends maximum asphalt application temperatures of 425°F (218°C) to 450°F (232°C). Application temperatures above these recommended temperatures may adversely affect roof system performance. Consult and follow the roofing system manufacturer's specifications for full mopping applications and temperature requirements.

When using DensDeck Prime Roof Board as a substrate for torch applications, ensure that the product is dry and that the proper torching technique is used. Limit the heat to the DensDeck Prime Roof Board. Maintain a majority of the torch flame directly on the roll.

Conditions beyond the control of Georgia-Pacific, such as weather conditions, dew, leaks, application temperatures and techniques may cause adverse effects with roofing systems.

Handling and Use—CAUTION

This product contains fiberglass facings which may cause skin irritation. Dust and fibers produced during the handling and installation of the product may cause skin, eye and respiratory tract irritation. Avoid breathing dust and minimize contact with skin and eyes. Wear long sleeve shirts, long pants and eye protection. Always maintain adequate ventilation. Use a dust mask or NIOSH/MSHA approved respirator as appropriate in dusty or poorly ventilated areas.

Moisture Management

DensDeck Prime Roof Boards, like other components used in roofing systems, must be protected from exposure to moisture before, during and after installation.

Remove the plastic packaging from all DensDeck Prime Roof Board immediately upon receipt of delivery. Failure to remove the plastic packaging may result in entrapment of condensation or moisture. DensDeck Prime Roof Board stored outside must be stored level and off the ground and protected by a breathable waterproof covering. Provide means for air circulation around and under stored bundles of DensDeck Prime Roof Board. DensDeck Prime Roof Board must be covered the same day as installed.

Avoid application of DensDeck Prime Roof Boards during rain, heavy fog and any other conditions that may deposit moisture on the surface, and avoid the overuse of non-vented, direct-fired heaters during winter months. When roofing systems are installed on new poured concrete or light weight concrete decks or when re-roofing over an existing concrete deck, a vapor barrier should be installed above the concrete to retard the migration of water from the concrete into the roof assembly. Always consult the roofing system manufacturer or design authority for specific instructions for applying other products to DensDeck Prime Roof Boards.

Moisture vapor movement by convection must be eliminated, and the flow of water by gravity through imperfections in the roof system must be controlled. After a leak has occurred, no condensation on the upper surface of the system should be tolerated, and the water introduced by the leak must be dissipated to the building interior in a minimum amount of time.

Although DensDeck Prime Roof Boards are engineered with fiberglass facings and high density gypsum cores, the presence of free moisture can have a detrimental effect on the performance of the product and the installation of roofing membranes. For example, hot asphalt applications can blister; torched modified bitumen may not properly bond; and adhesives for single ply membranes may not dry properly.

Submittal Approvals

Job Name _____

continued →

Contractor _____

Date _____

Stamps / Signatures

Moisture accumulation may also significantly decrease wind uplift and vertical pull resistance in the system or assembly. DensDeck® Prime Roof Boards containing excessive free moisture content may need to be evaluated for structural stability to assure wind uplift performance.

Fire Resistance Classifications

DensDeck Prime Roof Boards are excellent fire barriers over combustible and noncombustible roof decks, including steel decks.

UL 790 Classification. DensDeck Prime Roof Boards have been classified by Underwriters Laboratories LLC (UL) for use as a fire barrier over combustible and noncombustible decks in accordance with the ANSI/UL 790 test standard. The UL classification includes a comprehensive Class A, B or C rating. For additional information concerning the UL 790 classification, consult the UL Certification Directory.

UL 1256 Classification. DensDeck Prime Roof Boards have also been classified by UL in roof deck constructions for internal (under deck) fire exposure in accordance with the ANSI/UL 1256 Steiner Tunnel test. For additional information concerning the UL 1256 classification, consult the UL Certification Directory.

FM Class 1 Approvals. DensDeck Prime Roof Boards are included in numerous roofing assemblies with a Factory Mutual (FM) Class 1 fire rating. 1/4" (6.4 mm) DensDeck Prime Roof Boards have passed testing under the FM Calorimeter Standard 4450

and have been approved by FM as such for insulated steel deck roofs when installed according to the conditions identified by FM. For more information concerning FM Approvals and FM Class 1 assemblies with DensDeck Prime Roof Boards, consult FM or RoofNav®.

Type X. 5/8" (15.9 mm) DensDeck® Prime Fireguard® Roof Boards are manufactured to meet the "Type X" requirements of ASTM C1177 for increased fire resistance beyond regular gypsum board.

UL Fire Resistance Ratings. 5/8" (15.9 mm) DensDeck Prime Fireguard Roof Boards are designated as **Type DD** by UL and included in assembly designs investigated by UL for hourly fire resistance ratings. 5/8" (15.9 mm) DensDeck Prime Fireguard Roof Boards may also replace any unclassified 5/8" (15.9 mm) gypsum board in an assembly in the UL Fire Resistance Directory under the prefix "P".

Flame Spread and Smoke Developed. When tested in accordance with ASTM E84, DensDeck Prime Roof Boards had Flame Spread 0, Smoke Developed 0.

Wind Uplift

DensDeck Prime Roof Boards are included in numerous assemblies evaluated by FM or other independent laboratories for wind uplift performance. For information concerning such assemblies, please visit www.roofnav.com.

Physical Properties

Properties	1/4" (6.4 mm)	1/2" (12.7mm)	5/8" (15.9 mm)
Thickness, nominal	1/4" (6.4 mm) ± 1/16" (1.6 mm)	1/2" (12.7 mm) ± 1/32" (.8 mm)	5/8" (15.9 mm) ± 1/32" (.8 mm)
Width, standard	4' (1219 mm) ± 1/8" (3 mm)	4' (1219 mm) ± 1/8" (3 mm)	4' (1219 mm) ± 1/8" (3 mm)
Length, standard	4' (1219 mm) and 8' (2438 mm) ± 1/4" (6.4 mm)	4' (1219 mm) and 8' (2438 mm) ± 1/4" (6.4 mm)	4' (1219 mm) and 8' (2438 mm) ± 1/4" (6.4 mm)
Weight, nominal, lbs./sq. ft. (Kg/m²)	1.2 (5.9)	2.0 (9.8)	2.5 (12.2)
Surfacing	Fiberglass mat with non-asphaltic coating	Fiberglass mat with non-asphaltic coating	Fiberglass mat with non-asphaltic coating
Flexural Strength¹, parallel, lbf. min. (N)	≥ 40 (178)	≥ 80 (356)	≥ 100 (444)
Flute Spanability²	2-5/8" (66.7 mm)	5" (127 mm)	8" (203 mm)
Permeance³, perms (ng/Pa·S·m²)	>30 (>1710)	>23 (>1300)	>17 (>970)
R Value⁴, ft²·°F·hr/BTU (m²·K/W)	.28	.56	.67
Linear Variation with Change in Temp., in/in °F (mm/mm/°C)	8.5 x 10⁻⁶ (15.3 x 10⁻⁶)	8.5 x 10⁻⁶ (15.3 x 10⁻⁶)	8.5 x 10⁻⁶ (15.3 x 10⁻⁶)
Linear Variation with Change in Moisture	6.25 x 10⁻⁶	6.25 x 10⁻⁶	6.25 x 10⁻⁶
Water Absorption⁵, % max	5	5	5
Compressive Strength⁶, psi nominal	900	900	900
Surface Water Absorption, grams, nominal	1.0	1.0	1.0
Flame Spread, Smoke Developed (ASTM E84)	0/0	0/0	0/0
Bending Radius	4' (1219 mm)	6' (1829 mm)	8' (2438 mm)

1. Tested in accordance with ASTM C473 method B.

2. Tested in accordance with ASTM E661.

3. Tested in accordance with ASTM E96 (dry cup method).

4. Tested in accordance with ASTM C518 (heat flow meter).

5. Specified values per ASTM C1177.

6. Tested in accordance with ASTM C473.



U.S.A. Georgia-Pacific Gypsum LLC
 Georgia-Pacific Gypsum II LLC
 Canada Georgia-Pacific Canada LP

SALES INFORMATION AND ORDER PLACEMENT

U.S.A. West: 1-800-824-7503
 Midwest: 1-800-876-4746
 South Central: 1-800-231-6060
 Southeast: 1-800-327-2344
 Northeast: 1-800-947-4497

CANADA Canada Toll Free: 1-800-387-6823
 Quebec Toll Free: 1-800-361-0486

TECHNICAL INFORMATION

U.S.A. and Canada: 1-800-225-6119, www.gpgypsum.com

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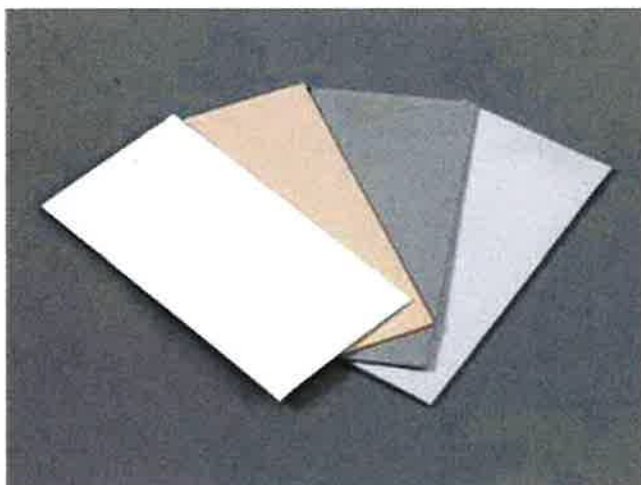
WARRANTIES, REMEDIES AND TERMS OF SALE For current warranty information for this product, please go to www.gpgypsum.com and select the product for warranty information. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at www.gpgypsum.com.

UPDATES AND CURRENT INFORMATION The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

CAUTION For product fire, safety and use information, go to www.buildgpp.com/safetyinfo or call 1-800-225-6119.

FIRE SAFETY CAUTION Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/system.

Sure-Flex™ PVC Coated Metal



Overview

Carlisle's Sure-Flex PVC Coated Metal is a galvanized steel sheet with a laminate of non-reinforced Sure-Flex PVC flashing. The sheet is cut into the appropriate width and used to fabricate metal drip edges or other roof perimeter edge profiles. Sure-Flex PVC or KEE HP membrane may be welded directly to the coated metal, eliminating the need to strip in the metal with a separate piece of membrane. The metal is available in 4-foot by 10-foot (1.2 m by 3.1 m) sheets and comes packaged 10 sheets per pallet.

Carlisle's Sure-Flex PVC Coated Metal is part of the Certified Fabricated Accessory (CFA) program. Certified Fabricated Accessories are the only factory-fabricated PVC accessories that meet the stringent quality tolerances required to be included in a Carlisle warranted roofing system. PVC coated aluminum and stainless steel are available in 4' x 10' sheets on a special order basis in white, tan, gray, and light gray. Contact customer service for minimum orders and lead times.

Features and Benefits

- » Allows direct welding of Sure-Flex PVC membrane to the coated metal, eliminating the need to strip in edging with additional membrane
- » Easy to cut and form to create a variety of edge sizes and profiles
- » Practical and cost-effective way of flashing roof edges
- » Available in white, tan, gray, and light gray colors
- » Matches membrane color to create a uniform look

Installation

1. Install Sure-Flex PVC Coated Metal with a 1/8" to 1/4" (3–6 mm) gap between adjoining sections.
2. Install 2" (5 cm)-wide foil tape over joints.
3. Heat-weld a 6" (15.5 cm)-wide piece of Sure-Flex PVC Flashing over each joint.
4. Position Sure-Flex PVC membrane and heat-weld to the Sure-Flex PVC Coated Metal with a minimum 1 1/2" (4 cm) weld.

Review Carlisle specifications and details for complete installation information.

Precautions

- » Store Sure-Flex PVC Coated Metal in a cool, shaded area, and cover with light-colored, breathable, waterproof tarpaulins. Sure-Flex PVC Coated Metal that has been exposed to the weather must be prepared with Carlisle's PVC Membrane Cleaner prior to hot-air welding.
- » Do not install Sure-Flex PVC Coated Metal in such a way that the membrane side is in direct contact with asphalt, coal tar pitch, polystyrene, or other petroleum-based products.

Typical Properties and Characteristics

Sheet Size	4 foot by 10 foot (1.2 m by 3.0 m)
Weight	1.1 lb/ft ² (5.4 kg/m ²)
Color	White, tan, gray, light gray
Flashing Thickness	0.035 inches (0.9 mm) nominal
Steel Thickness	0.024 inches (0.6 mm) nominal (24 gauge)
Steel Type	Hot Dipped Galvanized Steel—G90
Packaging	10 sheets per pallet

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.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Scranton, PA
Solar Reflectance Index	White: 111 Tan: 50 Gray: 43 Light gray: 90