

PRODUCT CATALOG

**BUILT STRONG THROUGH™
INNOVATION**



RoofjackRD™



- Manufactured from EPDM or silicone rubber, ROOFJACK RD™ is compounded for maximum resistance to ozone, UV light, & temperature extremes.
- Flexible aluminum base will allow the flashing to conform to any metal roof configuration. Pipe location can be centered in the flat of the panel or the rib. Urethane sealant & self-drilling screws complete the installation
- RoofjackRD are well marked so they can easily be cut with shears to fit exactly the pipe size used.
- RoofjackRD are available in Black or Gray EPDM as well as Red or Gray high temperature Silicone.

	EPDM 500	SILICONE
Advanced Ozone Resistance Tested to...	70 hr @500 pphm	70 hr @ 500 pphm
High Temperature Resistance Tested to Intermittent Continuous	+135°C (+275°F) +100°C (+212°F)	+260°C (+500°F) +225°C (+450°F)
Low Temperature Resistance tested to...	-55°C (-65°F)	-74°C (-100°F)
Tensile Set Maximum... Compression Set Maximum...	10MPa (1450psi) 25%	5MPa (700psi) 50%

High Temperature Silicone is Now Available in Gray

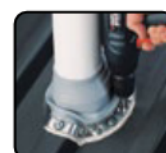
	PIPE SIZE	BASE DIAMETER	COLOR MATERIAL	CARTON QUANTITY	WEIGHT PER CARTON
#1	1/4" -2-1/2"	4.75" (120.7mm)	Black/Gray EPDM & Red/Gray Silicone	15	2.5
#2	1-3/4"-3"	6.21" (157.7mm)	Black/Gray EPDM & Red/Gray Silicone	15	4.5
#3	1/4"-5"	7.74" (196.6mm)	Black/Gray EPDM & Red/Gray Silicone	15	7.5
#4	3"-6-1/4"	9.26" (235.2mm)	Black/Gray EPDM & Red/Gray Silicone	10	8.0
#5	4-1/4"-7-3/4"	10.75" (273.0mm)	Black/Gray EPDM & Red/Gray Silicone	10	9.5
#6	5" - 9"	12.50" (317.5mm)	Black/Gray EPDM & Red/Gray Silicone	10	12.0
#7	6" - 11"	14.60" (370.8mm)	Black/Gray EPDM & Red/Gray Silicone	10	15.5
#8	7" - 13"	16.5" (419.1mm)	Black/Gray EPDM & Red/Gray Silicone	5	12.8
#9	9" - 19"	25.25" (641.1mm)	Black/Gray EPDM & Red/Gray Silicone	5	19.3

EASY INSTALLATION



1. Choose pipe opening and trim

2. Slide over pipe



3. Form to roof profile

4. Apply sealant

5. Fasten to complete

RoofjackSQ™



- Manufactured from EPDM or silicone rubber, RoofjackSQ™ is compounded for maximum resistance to ozone, UV light, & temperature extremes.
- Flexible aluminum base will allow the flashing to conform to any metal roof configuration. Pipe location can be centered in the flat of the panel or the rib. Urethane sealant & self-drilling screws complete the installation
- RoofjackSQ are well marked so they can easily be cut with shears to fit exactly the pipe size used.
- RoofjackSQ are available in Black or Gray EPDM & Red Silicone.
- RoofjackSQ can be turned so corner is pointing up the roof. It will act as a water diverter.

	EPDM 500	SILICONE
Advanced Ozone Resistance Tested to...	70 hr @500 pphm	70 hr @ 500 pphm
High Temperature Resistance Tested to Intermittent Continuous	+135°C (+275°F) +100°C (+212°F)	+260°C (+500°F) +225°C (+450°F)
Low Temperature Resistance tested to...	-55°C (-65°F)	-74°C (-100°F)
Tensile Set Maximum... Compression Set Maximum...	10MPa (1450psi) 25%	5MPa (700psi) 50%

EASY INSTALLATION



1. Choose pipe opening and trim

2. Slide over pipe



3. Form to roof profile

4. Apply sealant

5. Fasten to complete

	PIPE SIZE	BASE DIMENSION	COLOR MATERIAL	CARTON QUANTITY	WEIGHT PER CARTON
MINI	1/8"-3/4"	2 - 1/4" (57mm)	Black/Gray EPDM & Red Silicone	15	2.5
#1	1/4"-2-3/4"	4-1/2" (114mm)	Black/Gray EPDM & Red Silicone	15	2.5
#2	7/8"-4"	6" (152mm)	Black/Gray EPDM & Red Silicone	15	4.5
#3	1/4"-5-3/4"	8" (203mm)	Black/Gray EPDM & Red Silicone	15	7.5
#4	2-3/4"-7"	10" (254mm)	Black/Gray EPDM & Red Silicone	10	8.0
#5	4"-8-1/4"	11" (279mm)	Black/Gray EPDM & Red Silicone	10	9.5
#6	4-3/4"-10"	12" (304mm)	Black/Gray EPDM & Red Silicone	10	12.0
#7	5-1/2"-11-1/2"	14" (355mm)	Black/Gray EPDM & Red Silicone	10	15.5
#8	6-3/4"-13-1/2"	17" (431mm)	Black/Gray EPDM & Red Silicone	5	12.8
#9	9-1/2"-20-1/2"	25" (635mm)	Black/Gray EPDM & Red Silicone	5	19.3
MAXI	12"-28-1/2"	34" (863mm)	Black/Gray EPDM & Red Silicone	5	25.6

ARCHITECTURAL ROOFJACK AVAILABLE IN 8 COLORS



TERRA COTTA

LIGHT BLUE

BRIGHT RED

LIGHT GREEN

DARK GREEN

WHITE

BROWN

DARK BLUE

RETROFIT RoofjackRD™



- Manufactured from EPDM or silicone rubber, Roofjack™ is compounded for maximum resistance to ozone, UV light, & temperature extremes.
- Flexible aluminum base will allow the flashing to conform to any metal roof configuration. Pipe location can be centered in the flat of the panel or the rib. Urethane sealant & self-drilling screws complete the installation
- RETROFIT Roofjack are well marked so they can easily be cut with shears to fit exactly the pipe size used.
- Stainless steel teeth grip the material & secure it tightly.

	EPDM 500	SILICONE
Advanced Ozone Resistance Tested to...	70 hr @500 pphm	70 hr @ 500 pphm
High Temperature Resistance Tested to Intermittent Continuous	+135°C (+275°F) +100°C (+212°F)	+260°C (+500°F) +225°C (+500°F)
Low Temperature Resistance tested to...	-55°C (-65°F)	-74°C (-100°F)
Tensile Set Maximum... Compression Set Maximum...	10MPa (1450psi) 25%	5MPa (700psi) 50%

	PIPE SIZE	BASE DIAMETER	COLOR MATERIAL	CARTON QUANTITY	WEIGHT PER CARTON
#1	3/4" - 2-3/4" (19 - 70 mm)	6-3/10" (160mm)	Black EPDM/Grey EPDM/Red Silicone	5	2.5
#2	2" - 7-1/4" (50.8 - 184 mm)	10-3/4" (273.1mm)	Black EPDM/Grey EPDM/Red Silicone	5	8.0
#3	3-1/4" - 10" (95 - 254 mm)	14-1/2" (641.4mm)	Black EPDM/Grey EPDM/Red Silicone	5	15.5



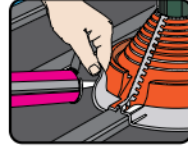
1. Using tin snips, cut the cone to fit pipe.



2. Wrap Retrofit around pipe, join the interlocking teeth



3. Squeeze joiner tightly with pliers to crimp



4. Apply sealant shape Retrofit to roof



5. Fasten Retrofit to roof



6. Apply additional sealant to mechanical locking joiner seam

RETROFIT RoofjackSQ™



- Manufactured from EPDM or silicone rubber, Roofjack™ is compounded for maximum resistance to ozone, UV light, & temperature extremes.
- Flexible aluminum base will allow the flashing to conform to any metal roof configuration. Pipe location can be centered in the flat of the panel or the rib. Urethane sealant & self-drilling screws complete the installation.
- RETROFIT Roofjack are well marked so they can easily be cut with shears to fit exactly the pipe size used.
- RETROFIT Roofjack are used in applications for which a standard flashing will not work. It wraps around the pipe instead of pulling down over the pipe. Hardware is included to ensure a watertight connection.
- Fastener snaps & cable tie are included.

	EPDM 500	SILICONE
Advanced Ozone Resistance Tested to...	70 hr @500 pphm	70 hr @ 500 pphm
High Temperature Resistance Tested to Intermittent Continuous	+135°C (+275°F) +100°C (+212°F)	+260°C (+500°F) +225°C (+500°F)
Low Temperature Resistance tested to...	-55°C (-65°F)	-74°C (-100°F)
Tensile Set Maximum... Compression Set Maximum...	10MPa (1450psi) 25%	5MPa (700psi) 50%



	PIPE SIZE	BASE DIMENSION	COLOR MATERIAL	CARTON QUANTITY	WEIGHT PER CARTON
#1	1/2" - 4" (12.7 - 101.6mm)	8" - 3/16" (80.96mm)	Black EPDM/Grey EPDM/Red Silicone	5	2.5
#2	4" - 9-1/4" (101.6 - 135mm)	14-1/4" (361.95mm)	Black EPDM/Grey EPDM/Red Silicone	5	8.0
#3	9-1/4" - 16-1/4" (235 - 412.8mm)	21-1/2" (546.1mm)	Black EPDM/Grey EPDM/Red Silicone	5	15.5



1. Trim to Fit



2. Wrap and Snap



3. Press and Mold



4. Add Urethane Sealant.



5. Fasten



6. Install Cable Tie

Red Silicone Retrofit Roofjack



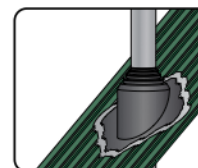
EXTREME™ Roofjack™



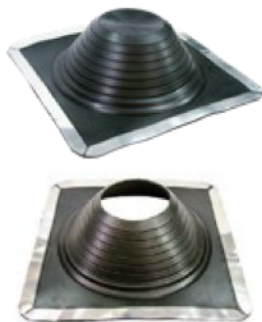
- Weather Resistance Designed to withstand the damaging effects of ultra violet light and ozone.
- Modification Made Simple Easy to see pipe diameters make for painless on-site customization.
- The built in 40° degree pitch allows to handle any extreme roof pitch (35° - 65°), sleeve flexibility accommodates vibration and pipe movement caused by expansion/contraction. Easy on-site customization accommodates all normal installations.
- Adaptable Base. The base is designed to mold to most panel configurations and roof pitches regardless of pipe location.

	EPDM 500	SILICONE
Advanced Ozone Resistance Tested to...	70 hr @500 pphm	70 hr @ 500 pphm
High Temperature Resistance Tested to Intermittent Continuous	+135°C (+275°F) +100°C (+212°F)	+260°C (+500°F) +225°C (+500°F)
Low Temperature Resistance tested to...	-55°C (-65°F)	-74°C (-100°F)
Tensile Set Maximum... Compression Set Maximum...	10MPa (1450psi) 25%	5MPa (700psi) 50%

	PIPE SIZE	BASE DIMENSION	COLOR MATERIAL	CARTON QUANTITY	WEIGHT PER CARTON
	1/4" - 5-3/4" (6 - 146mm)	11" (279mm)	Black EPDM//Red Silicone	5	2.5



FIX-A-FLASH™ RoofjackSQ™



- Designed for an over-sized hole, but smaller diameter pipe, over which a standard ROOFJACK™ will not fit.
- Manufactured from EPDM or silicone rubber, the FIX-A-FLASH material compound is designed for maximum resistance to ozone, UV light, & temperature extremes.
- Each FIX-A-FLASH is well marked with pipe sizes, so it can be easily cut to properly conform to the pipe size used.
- FIX-A-FLASH have a flexible aluminum band that will conform to any metal roof configuration.

	EPDM 500	SILICONE
Advanced Ozone Resistance Tested to...	70 hr @500 pphm	70 hr @ 500 pphm
High Temperature Resistance Tested to Intermittent Continuous	+135°C (+275°F) +100°C (+212°F)	+260°C (+500°F) +225°C (+500°F)
Low Temperature Resistance tested to...	-55°C (-65°F)	-74°C (-100°F)
Tensile Set Maximum... Compression Set Maximum...	10MPa (1450psi) 25%	5MPa (700psi) 50%

PIPE SIZE	BASE DIAMETER	COLOR MATERIAL	CARTON QUANTITY	WEIGHT PER CARTON
Closed Top 0" - 15" (0-381mm)	19-1/2" (495mm) Base	Black/Gray EPDM & Red Silicone	5	15
Open Top 6-3/4" - 15" (171-381mm)	19-1/2" (495mm) Base	Black/Gray EPDM & Red Silicone	5	15



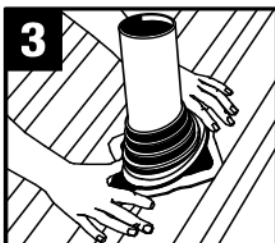
Easy Designed to Fix an Oversized Hole



1 Choose Pipe Opening and Trim



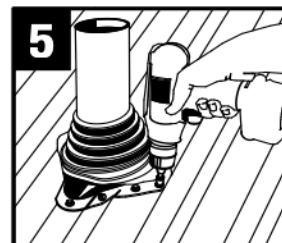
2 Slide Over Pipe



3 Form to Roof Profile



4 Apply Sealant



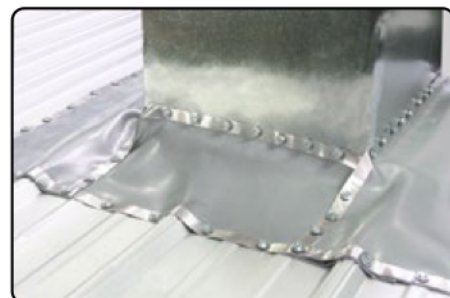
5 Fasten to Complete

EXPANSION JOINT™ Roofjack™

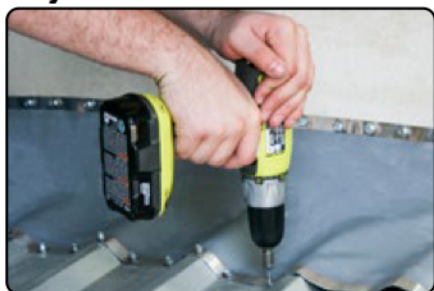


- LINEAR EXPANSION JOINT is manufactured from EPDM rubber to resist UV light, ozone, & temperature extremes.
- There are flexible aluminum bands integrated into each width of the material that conform to any metal roof panel configuration.
- Applications include transition walls, parapet walls, stepped roofs, square vents.

WIDTH	LENGTH	COLOR MATERIAL	WEIGHT PER CARTON
9" (228mm)	3ft (914mm)	Gray EPDM	1.8 LBS.
9" (228mm)	12ft (3.65meters)	Gray EPDM	5.18 LBS.
9" (228mm)	33ft (10meters)	Gray EPDM	13.37 LBS.
12" (305mm)	3ft (914mm)	Gray EPDM	2.28 LBS.
12" (305mm)	12ft (3.65meters)	Gray EPDM	6.10 LBS.
12" (305mm)	33ft (10meters)	Gray EPDM	15.02 LBS.



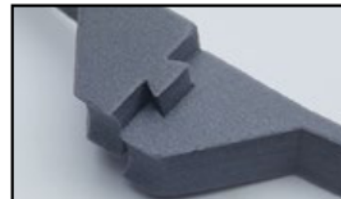
Easy Installation



ST ClosureStrip



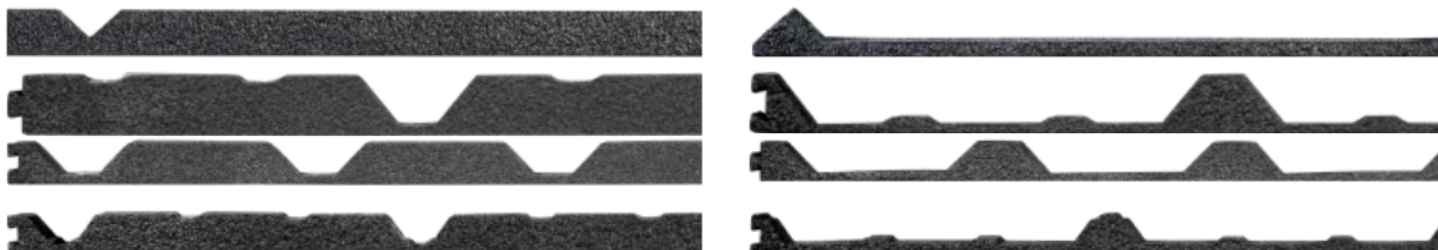
- Designed to close gaps in roof & sidewall applications. Material is pre-cut to conform to metal panel configurations.
- Applications include closing the openings at the ridge (peak of the building) or at the eave (gutter-line of a building).
- 1.8 lb. Density polyethylene foam is designed to withstand harsh weather elements including moisture & ultraviolet rays.
- Optional pre-applied adhesive helps to keep closure in place before roof panel is fastened.
- Interlocking dovetails provide a secure end-to-end fit, eliminating any potential gaps
- Other profiles are available. Call ST Fastening Systems Customer Service for availability.



Interlocking dovetails provide a secure end-to-end fit, eliminating any potential gaps

PANEL PROFILE	DESCRIPTION	PITCH OF CORR	WIDTH OF STRIP	HEIGHT OF CORR	LENGTH OF STRIP	PIECES PER CTN.	WEIGHT PER CTN.
	3/4" Ag Rib	9"	7/8	3/4"	36"	100	6 LBS.
	R-Panel	12"	7/8	1-1/4"	36"	100	6 LBS.
	U-Panel	6"	7/8	3/4"	36"	100	6 LBS.
	Pro Panel II	9"	7/8	5/8"	36"	100	6 LBS.
	2.67" x 7/8" Corrugated	2.67"	7/8	7/8"	36"	100	6 LBS.

ADDITIONAL INSIDE AND OUTSIDES PROFILES ARE AVAILABLE



PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENT
Density (lb./cf)	ASTM D 3574	1.8 - 2.0
110 mph Wind Driven Rain Test	AS 100(A)	NA
Air Permeability (ft3/m./ft2 of Surface)	ASTM D737	NA
Tear Resistance (lb./in. min.)	ASTM D 3574	6 machine direction
	ASTM D 3574	11 cross direction
Tensile Strength (lbs/in2 min.)	ASTM D 3574	60 machine direction
	ASTM D 3574	38 cross direction
Compress Force Deflection (lbs/in2 @ 25%)	ASTM D 3574	5
Compress Force Deflection (lbs/in2 @ 50%)	ASTM D 3574	15
Compression Set (% Original Thickness)	ASTM D 3574	24 - 28
Elongation (% min.)		124 machine direction
		88 Cross Direction
Shore Hardness (00 Scale)	ASTM 2240	51
Thermal Stability (% Max)	Machine Direction	-2.0
(24 hour @ 158oF)	Cross Direction	-1.0
Thermal Conductivity (K Factor)	ASTM C177	0.25
BTU in./F Hr oF		
Water Absorption (Lbs/SqFt Cut Surface)	ASTM D-1667	0.04
Working Temperature Range (Fo)		-40 to 160
Flammability	AVSS 302	Pass

EASY 4 STEP INSTALLATION

STEP
1

PEEL PAPER FROM ADHESIVE



STEP
2

FIT TO METAL PANEL



STEP
3

FIRMLY APPLY



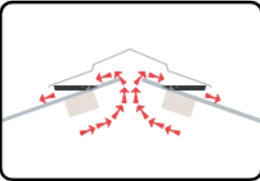
STEP
4

LINK NEW CLOSURE

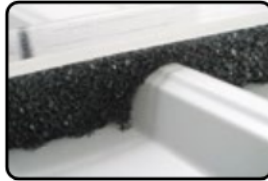




- Adhesive is applied to the flat of the foam strip for easy field installation.
- Open cell foam formulated to allow as much as 98% free air flow.
- Material design prevents wind-driven rain from penetrating the material causing undesired leaks.
- Material design is universal in nature. It will conform to any panel 1 1/4" or less in height.
- MultiVent™ can be used on angled roof applications. There is no need for special angle cut closures



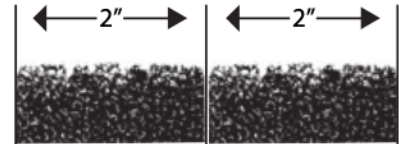
Easy peel and stick strips



Material conforms to any panel configuration.

LENGTH PER PIECE	PIECES PER CTN.	FEET PER CTN.	MULTI VENT DIMENSIONS	
			WIDTH	HEIGHT
36"	60	180	2"	1.75"

PHYSICAL PROPERTIES	NON-WOVEN POLYESTER	
	TEST METHODS	REQUIREMENT
Density (lb./cf)	ASTM D 3574	1.1 -- 1.6
110 mph Wind Driven Rain Test		not tested
Air Permeability (ft3/m./ft2 of Surface)	ASTM D737	700-800
Tear Resistance (lb./in. min.)	ASTM D 3574	2.9 minimum
Tensile Strength (lbs/in2 min.)	ASTM D 3574	12 minimum
Compress Force Deflection (lbs/in2 @ 50%)	ASTM D 3574	.5 - .65
Elongation (% min.)		90 minimum
Net Free Area		
Grandrib panel - 3/4" rib height (in2/lf of Ridge)	1 side	8.85
R panel - 1-1/4" rib height (in2/lf of Ridge)	1 side	14.76
Service Temperature Range		
High Intermittent (oF)		250
Continuous		200
Cold Temperature Resistance		-40
Melt Temperature		500



MultiVent10™ is packaged two strips side by side on release paper.



- 1 1/2" wide material is manufactured from the same high quality material as MULTI VENT™.
- Material can be cut in a particular profile to match metal panel profile.
- Vented material will provide maximum air flow, yet prevent wind driven rain when compressed.
- Adhesive is applied as standard to allow for easy field installation.

AVAILABLE IN TWO PROFILES



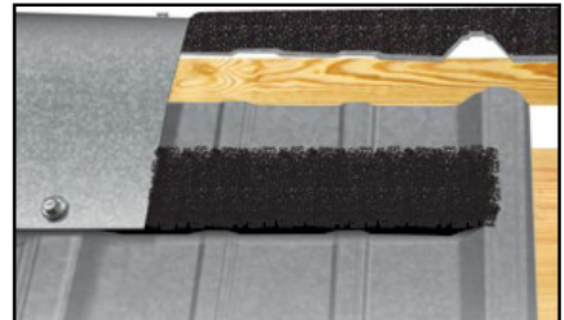
1 1/4" R-PANEL



3/4" AG RIB

	PIECES PER CTN.	FEET PER CTN.	ST CONTOURVENT DIMENSIONS	
			WIDTH	HEIGHT OF PROFILE
R-Panel	40	120	1 1/2"	1 1/4"
AG RIB	60	180	1 1/2"	3/4"

PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENT
Density (lb./cf)	ASTM D 3574	1.1 -- 1.6
110 mph Wind Driven Rain Test		not tested
Air Permeability (ft3/m./ft2 of Surface)	ASTM D737	700-800
Tear Resistance (lb./in. min.)	ASTM D 3574	2.9 minimum
Tensile Strength (lbs/in2 min.)	ASTM D 3574	12 minimum
Compress Force Deflection (lbs/in2 @ 25%)	ASTM D 3574	.5 - .65
Elongation (% min.)	ASTM D 3574	90 minium
Net Free Area		
Grandrib panel - 3/4" rib height (in2/lf of Ridge)	1 side	8.85
R panel - 1-1/4" rib height (in2/lf of Ridge)	1 side	14.76
Service Temperature Range		
High Intermittent (oF)		250
Continuous		200
Cold Temperature Resistance		-40
Melt Temperature		500



NOTE: As with other attic ventilation systems, ST ContourVent must be installed with soffit or eave vents to meet HVI recommendations

EASY INSTALLATION

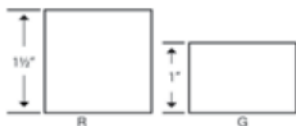
STEP 1	PEEL PAPER FROM ADHESIVE
STEP 2	FIT TO METAL PANEL
STEP 3	FIRMLY APPLY

MULTIVENT10™ / MULTIVENT20™



MultiVent10™

- Specially formulated coated polyester has been manufactured from recycled material and is recyclable.
- Won't absorb moisture, which can freeze and block all ventilation.
- Unique doubled beaded adhesive for a durable holding strength
- Available in 10' and 20' rolls

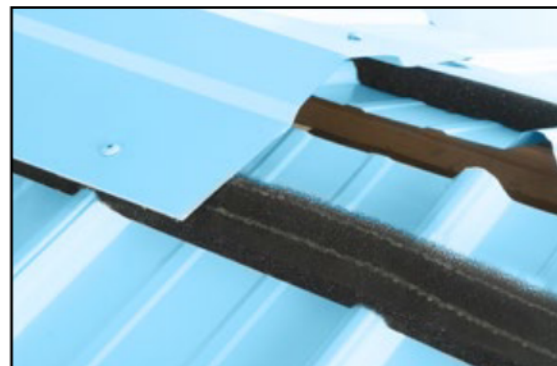


Available in Two Sizes

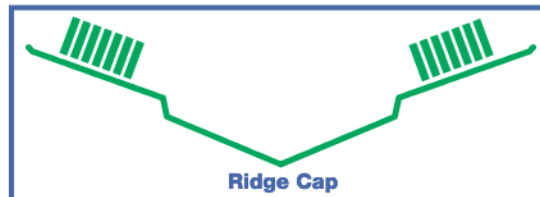
	LENGTH PER PIECE	PIECES PER PACKAGING	FEET PER PACKAGING	MULTI VENT DIMENSIONS	
				WIDTH	HEIGHT
MultiVent10 R	10'	2	20	2"	1 1/2"
MultiVent10 G	10'	2	20	2"	1"
MultiVent20 R	20'	1	20	2"	1 1/2"
MultiVent20 G	20'	1	20	2"	1"

PHYSICAL PROPERTIES	NON-WOVEN POLYESTER	
	TEST METHODS	REQUIREMENT
Density (lb./cf)	ASTM D 3574	0.9
110 mph Wind Driven Rain Test	AS 100(A)	pass
Air Permeability (ft3/m./ft2 of Surface)	ASTM D737	1329
Tear Resistance (lb./in. min.)	ASTM D 3574	4.5
Tensile Strength (lbs/in2 min.)	ASTM D 3574	19 minimum
Compress Force Deflection (lbs/in2 @ 50%)	ASTM D 3574	.52
Elongation (% min.)		
Net Free Area		
Grandrib panel - 3/4" rib height (in2/lf of Ridge)	1 side	9.5
R panel - 1-1/4" rib height (in2/lf of Ridge)	1 side	13.23
Service Temperature Range		
High Intermittent (oF)		250
Continuous		200
Cold Temperature Resistance		-40
Melt Temperature		500

THERMAL	NOMINAL VALUE UNIT	TEST METHOD
Vicat Softening Temperature	235 to 428°F	ASTM D1525
	325 to 428°F	ISO 306

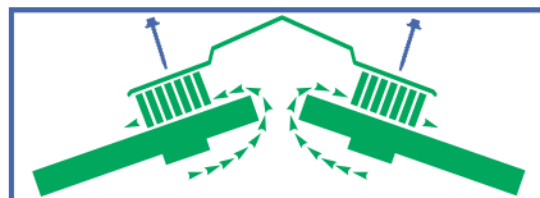


MultiVent10 with a pre-applied adhesive strip is easily applied to the underside of a metal ridge cap for easy field installation



Ridge Cap

Clean panel of dust & debris. The versatility of the MULTIVENT20 allows installation either onto the ridge cap or the metal roof panel. The roll should sit "up-slope" from the edge of the ridge cap. Double bead adhesive holds MULTIVENT20 securely in place.



Install ridge cap to metal roof panel with electric screw gun with depth setting nosepiece or drill driver with clutch to prevent over-driving.

ST PolyUrethane Strip

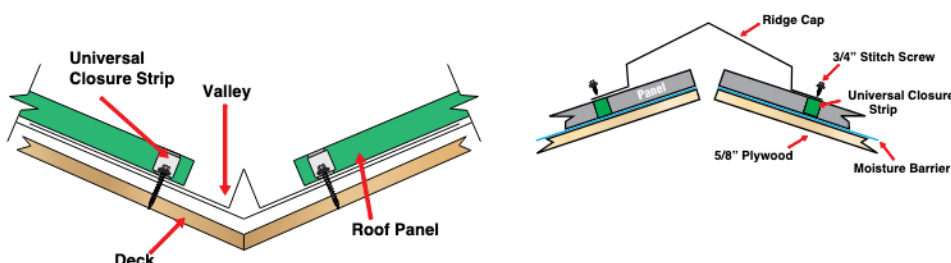


- Polyurethane foam strip is also referred to as Universal Closures.
- The material is a flexible semi-closed cell material that is used for filling voids & other openings between metal panels.
- They are available with or without pre-applied adhesive.
- Standard length is 25'.

THICKNESS	WIDTH	LENGTH	ROLLS/BUNDLE
1"	1"	25 FT.	10/BOX
1"	1-1/2"	25 FT.	10/BOX
1-1/2"	1-1/2"	25 FT.	10/BOX
2"	2"	25 FT.	8/BOX

** Special Order non taped.
* UNIVERSAL CLOSURES available in all sizes without adhesive. There are 20 rolls per package. Call for current price & availability.

EASY INSTALLATION



FIT TO METAL PANEL

STEP 1

STEP 2

FIRMLY APPLY



100 Series MRS

- Permanently flexible, invisible to UV light, and mold/mildew resistant
- Waterproof, weather tight seal that will not freeze, shrink, crack, sag, or slump. Plastic tubes will not fall apart, crack or split open.
- Excellent adhesion to most building substrates, excellent tooling, and easily gunned at all temperatures— winter and summer. Tack free in 10 minutes, and completely cured within 48 hours.
- 18 month shelf life, solvent free, low odor, and VOC compliant in all 50 states (green building compliance).
- Available in all major siding, trim, coil, window and metal roof manufacturer colors. AAMA verified for all window installations, and it can be used on interior and exterior surfaces/ applications
- Ability to use entire tube—or can save with end cap—no waste, removable tips.
- 100 Series Silicone has excellent adhesion to most non-porous substrates such as polycarbonate, glass, aluminum, ceramic tile, fiberglass and glazed brick.

DESCRIPTION	CARTON QTY.	CARTON WEIGHT
MRS (Metal Roof Sealant) Silicone	Qty. 12	10 lbs.
100 Series Silicone for Polycarbonate and Fiberglass	Qty. 24	20 lbs.

PRODUCT SPECIFICATIONS				
PHYSICAL PROPERTY	TEST METHOD		PERFORMANCE RANGE	
	100 SERIES	MRS	100 SERIES	MRS
APPEARANCE			TRANSLUCENT PASTE	COLORED PASTE*
EXTRUSION RATE		1/8" ORIFICE @ 50PSI		30 – 80 GRAMS
SKIN OVER TIME	3/8" @ 50%RH & 77-F	3/8" @ 50%RH & 77-F	25 MINUTES MAX	5-10 MINUTES
THROUGH CURE	3/8" @ 50%RH & 77-F	3/8" @ 50%RH & 77-F	7 DAYS	24 HOURS

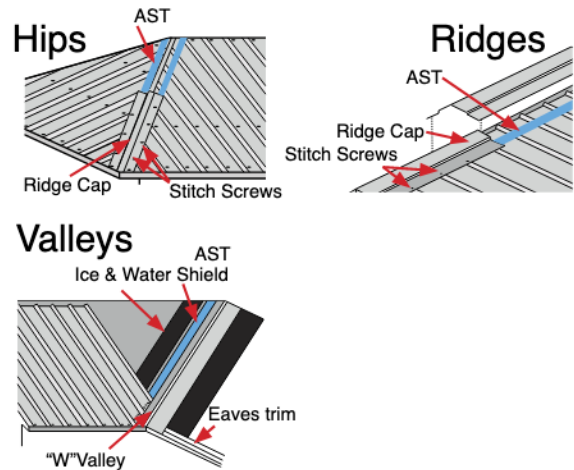
PRODUCT SPECIFICATIONS				
PHYSICAL PROPERTY	TEST METHOD		TYPICAL VALUE	
	100 SERIES	MRS	100 SERIES	MRS
Specific Gravity			1.03	1.00 -1.25
Tensile Strength	ASTM D412	ASTM D412	200 PSI	140-200 PSI
Elongation	ASTM D412	ASTM D412	600%	500-650%
Tear Resistance	ASTM D624	ASTM D624	28	30-35 PLI
Shore Hardness	ASTM D 2240	ASTM D 2240	18	22 ± 8
Service Temperature			-62 to 200°C	-40C – 205C (-40F –400F)
Join Sealant Designation		ASTM C920		Type S Grade NS Class 25 Use NT, M, G, A,O
Adhesion Glass Aluminum Vinyl		ASTM D 903		12-15 pli 10-14 pli 12-15 pli

EMSEAL® AST ACRYLIC SEALANT TAPE



- AST is a self-adhering foam tape impregnated with water-based acrylic-modified asphalt emulsion.
- It is an excellent alternative to butyl tape & open-cell polyurethane foam strips.
- Will not dry out and become hard and brittle
- UV-stable
- Highly resistant to bugs and vermin
- Will not extrude from between joints like caulk or butyl tapes
- Conforms to contours and fills gaps
- Maintains a seal during thermal expansion and contraction of building panels
- Excellent compressibility and recovery (minimal compression set)
- Good thermal and sound insulator
- No shrinkage or blow-out due to closed-cell breakage
- Supplied with self-adhesive on one side. After removal of packaging, material begins gradual expansion - more slowly in cold weather than in hot.

SUPPLIED SIZE	EXPANDED SIZE	LF/BOX	REELS PER BOX	REEL LENGTH
1/4" x 1"	1" x 1"	511.68 LF	26	19.7'
3/8" x 1"	1-1/2" x 1"	314.88 LF	24	13.1'



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TABLE 1: TYPICAL PHYSICAL PROPERTIES OF AST

PROPERTY	VALUE	TEST METHOD
BASE MATERIAL	OPEN CELL, HIGH DENSITY, POLYURETHANE FOAM	N/A
IMPREGNATION	ACRYLIC-MODIFIED ASPHALT	N/A
COLOR	BLACK	N/A
TENSILE STRENGTH	21 PSI MIN (145 KPA)	ASTM D3574
ELONGATION - ULTIMATE	3/8" X 3/8"	ASTM D3574
TEMPERATURE RANGE HIGH-PERMANENT HIGH-SHORT TERM LOW	185°F (85°C) 203°F (95°C) -40°F (-40°C)	ASTM C711
SOFTENING POINT	140°F MIN (60°C)	ASTM D816
UV RESISTANCE	EXCELLENT	
MILDEW RESISTANCE	EXCELLENT	
RESISTANCE TO AGING	EXCELLENT	
BLEEDING -40°F TO 180°F (-40°F TO 85°F)	NONE (WHEN COMPRESSED DOWN TO 20% OF UNCOMPRESSED THICKNESS)	
COMPRESSION SET 70°C 50% RH AFTER 72HRS	3% MAX	ASTM D3574
THERMAL CONDUCTIVITY	0.34 BTU. IN/HR. FT2.°F (0.05 W/M. °C)	ASTM C518
LOW. TEMP. FLEXIBILITY 32°F TO -10°F (0°C TO -23°C)	NO CRACKING OR SPLITTING	ASTM C711
WATER VAPOR TRANSMISSION	0.011 PERMS	ASTM C355-64

TackyTape®



- TACKY TAPE is a 100% solids, asbestos free butyl tape sealant in roll form.
- Applications include metal roof endlaps, sidelaps, vents, gutters, pipe flashings, skylights.
- Service temperature range is -40 Degrees F- +180 Degrees F
- Material will not become brittle or crack.

TACKY TAPE ROLL	CARTON QTY.
3/32" x 3/8" x 45'	40
3/32" x 1/2" x 45'	32
3/32" x 3/4" x 45'	24
3/32" x 1" x 45'	20

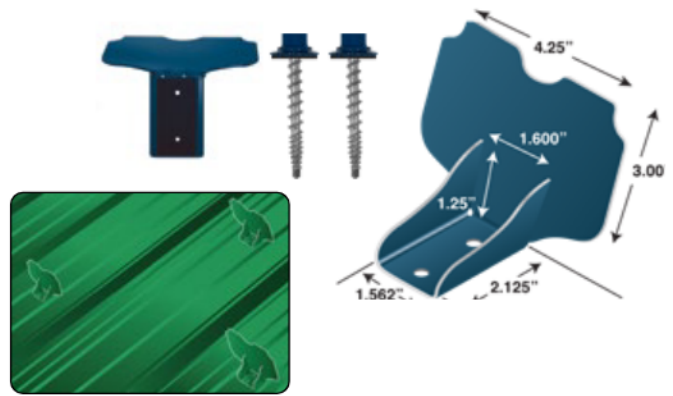
SnowTrax™



Snowtrax in 28 environment friendly powder coat colors. The color GY17 is no longer available.

- Material is 16 gauge 304 Stainless Steel
- Snowtrax™ are packaged 50 pieces per box
- No additional sealant is required, which saves cost & maintains a finished appearance.
- Snowtrax can be added to fastener orders to save freight costs.
- Powder coat paint is standard on all Snowtrax in 28 colors as well as unpainted.
- Snow Trax design is best suited for exposed fastener metal to wood roof applications.
- EPDM rubber gasket provides maximum sealing capability when installed with Kwikseal MB Wood-binder® screws.
- Powder coat colors will be consistent from job to job with no color drift.

EASY INSTALLATION



MRC SnowTrax™

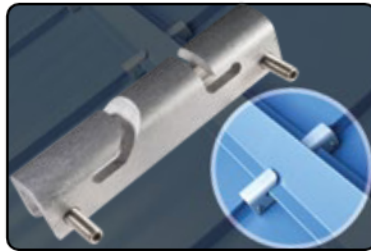


The Extruded Aluminum alloy clamp is machined with pre-drilled holes. 26 gauge colored rail is formed to slide through the grooves in the clamp.



304 Stainless Steel coned set screws are provided to secure the clamp to the standing seam roof panel.

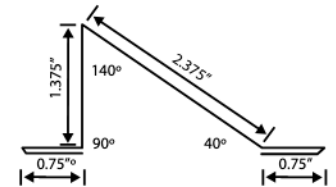
- Designed for residential standing seam metal roofs
- Made in USA
- Colored rail bent out of customer inventory
- Freight savings
- Efficient inventory management
- Product testing independently verified
- 25 Year Warranty



APPLICATIONS



The MRC SNOW TRAX is shown installed with the colored rail.



The schematic drawing below illustrates the dimensions to fabricate the rail from the same material as the roof.

TABLE 1 - TEST RESULTS FOR MRC SNOW TRAX

Ultimate Axial Load Capacity - 26 gauge steel roof panel	913 lbf [S.D. 46.6 lbf]
Ultimate Axial Load Capacity - 24 gauge steel roof panel	843 lbf [S.D. 67.4 lbf]
Ultimate Axial Load Capacity - All Samples	878 lbf [S.D. 64.7 lbf]

ST Driver



- Maximum torque transfer & positive tool engagement means easier drive installation with less pressure & slippage.
- Drivers are specifically designed to fit ECLIPSE® WOODBINDER® & STEELBINDER® screws.

SIZE	TYPE	LENGTH
T25W275	6 LOBE	2-3/4"
T30W275	6 LOBE	2-3/4"
275-SQP2	SQUARE/PHILLIPS Combo	2-3/4"



ST Socket



- 1/4", 5/16", 3/8" sizes are standard.
- Magnetic or Spring Retainer are both available
- Magnetic socket is designed with a high power magnet for a secure fit. Painted fasteners do not scratch or mar as easily
- Spring retainer socket is designed for use with all ST Fastening Systems non-magnetic screws, especially the ZXL long-life family. The clip & ball bearing hold the screw securely in place during installation.

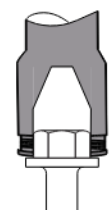
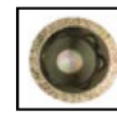
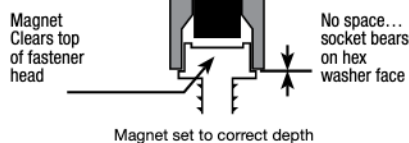
ST Magnetic Socket is available for powder coated fasteners

SIZE	TYPE	LENGTH
1/4"	Magnetic, Spring Retainer	2-9/16", 1-3/4"
5/16"	Magnetic, Spring Retainer	2-9/16", 1-3/4"
3/8"	Magnetic, Spring Retainer	2-9/16", 1-3/4"

NOTES: 1. A 1 3/4" short magnetic socket is also available.



CORRECT



Spring clips collapses to engage fastener head and to hold firm