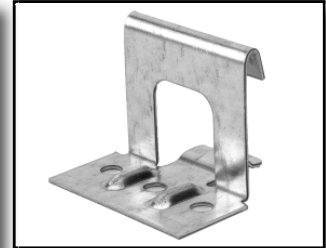
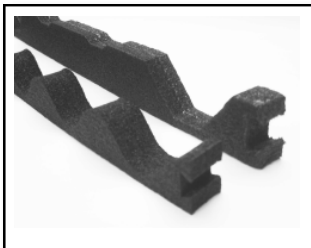
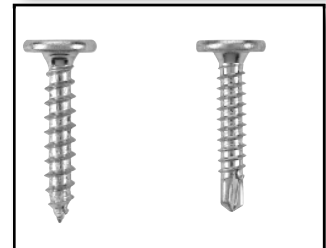
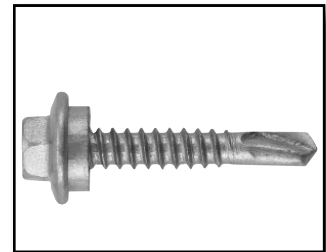


WESTERN STATES METAL ROOFING

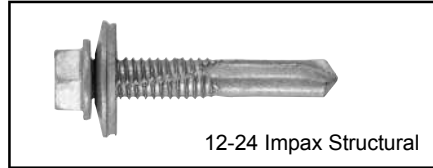
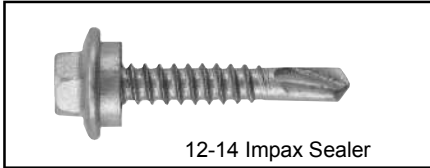
Fasteners and Accessories Selection Guide

Western States Metal Roofing's standard selection of fasteners and accessories to complement our metal panel offering:

- Metal to metal fasteners
- Metal to wood fasteners
- Rivets
- Standing seam roof attachment
- Pipe flashing
- Ridge ventilation
- Closure
- Tapes and sealant



- Precision cold forged assuring superior point strength and the fastest drilling time performance through high strength steel and nested purlins.
- Ultimate performance in light, medium and heavy gage applications.
- Designed and engineered to have low driving and thread engagement torque and provide maximum clamp load.
- Corrosion resistant coating system
- Available painted to color match.



Impax - Sealer - Cupped HWH with EPDM sealing washer

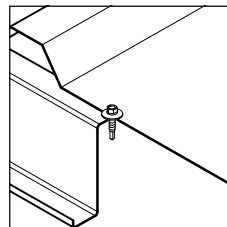
12-14 Sealer Impax Metal to Metal

Drilling capacity: .035 - .210

Thickness is based on normal single thickness purlin/girt or multiple material thickness combined for total.

Min projection: 3/16" of threads below substrate

Available Length: 3/4" to 1-1/2"
Stock Lengths: 1", 1-1/2", 2"



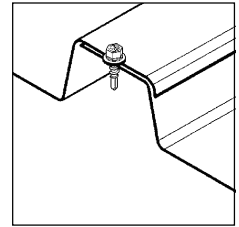
1/4-14 Sealer Impax Lap Panel to panel side lap

Drilling capacity: .030 - .095

Some applications may require attaching light gage (24-26 ga.) to sub-structural member.

Composite thickness should not exceed .095"

Length: 7/8"



Impax - Heavy metal thickness with bond seal washer- structural drill screw

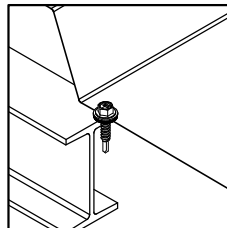
12-24 Impax 4.5 Metal to Metal

Drilling capacity: .075 - .375

Thickness is based on normal single thickness purlin/girt or multiple material thickness combined for total.

Thread length:
12-24 x 1-1/4": .650

Min projection: 3/16" of threads below substrate



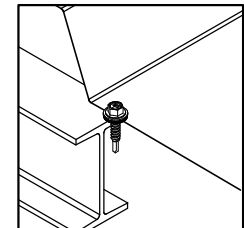
12-24 Impax 5 Metal to Metal

Drilling capacity: .075 - .500

Thickness is based on normal single thickness purlin/girt or multiple material thickness combined for total.

Thread length:
12-24 x 1-1/4": .520 Stock Length
12-24 x 1-1/2": .770
12-24 x 2": 1.020

Min projection: 3/16" of threads below substrate



Impax - Performance drill screw with bond seal washer

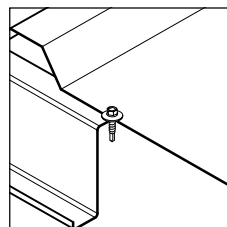
12-14 Impax Metal to Metal

Drilling capacity: .035 - .210

Thickness is based on normal single thickness purlin/girt or multiple material thickness combined for total.

Min projection: 3/16" of threads below substrate

Available Length carbon steel: 3/4" to 4"
Available Length 410 Stainless: 3/4" to 1-1/2"



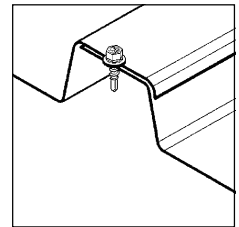
1/4-14 Impax Lap Panel to panel side lap

Drilling capacity: .030 - .095

Some applications may require attaching light gage (24-26 ga.) to sub-structural member.

Composite thickness should not exceed .095"

Length carbon steel: 7/8"
Length 410 Stainless: 7/8"



Woodgrip

Woodgrip is the original sheet to wood fastener designed to penetrate metal panels:

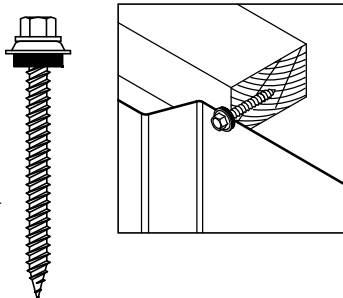
- High hex washer head provides driving stability and a sharp point for quick installation
- Assembled with a control seal washer for a consistent weather tight seal and improved installation appearance
- Extended corrosion resistant coating system
- Available painted to color match

Woodgrip 9-15 HWH Sharp Point Control Seal Metal to wood

Drilling capacity: 24 ga (.024)

Penetrates through the metal panel and taps into wood substrate.

Min projection in wood substrates should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia.: .181 - .175
Thread Minor Dia.: .133 - .127

Strength Carbon Steel (lbs ult):

Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 1223

Strength Stainless Bi-metal(lbs ult):

Tensile: 1657
Torsional: 50 in-lbs min.
Shear: 1550

Available carbon steel
stainless bi-metal

Available Length: 1", 1-1/2", 2", 2-1/2", 3"
Stock Lengths: 1", 1-1/2", 2"

HiLo Wood Driller

HiLo Wood Driller is a sheet to wood fastener designed to self-drill metal panels:

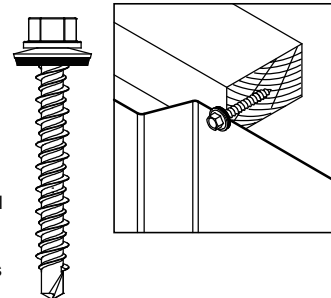
- High hex washer head provides driving stability
- Precision cold forged assuring superior point strength and the fastest drilling time performance
- Assembled with a bond seal washer for a consistent and tight seal and improved installation appearance
- Available painted to color match

HiLo Wood Driller 10-15 HWH Bond Seal Metal to wood

Drilling capacity: 22 ga (.031)

Self-drills through the metal panel and taps into wood substrate.

Min projection in wood substrates should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia.: .199 - .191
Thread Minor Dia.: .133 - .127

Strength Carbon Steel (lbs ult):

Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 12233

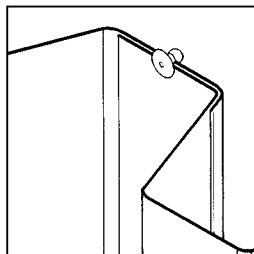
Strength 410SS (lbs ult):

Tensile: 2520
Torsional: 90 in-lbs min.
Shear: 1790

Available carbon steel
410 stainless steel

Stock Length: 1", 2"

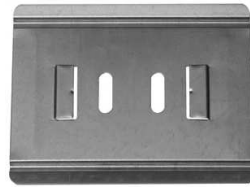
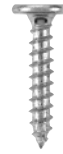
Blind Rivet



Stainless Rivet / Stainless Mandrel

Painted to match standard industry colors

Description:	STST43
Head Style:	Dome
Rivet Dia. Nom.:	1/8"
US Dimen:	43
Grip Range:	.126 - .187
Hole Size/Drill No.:	#30 (.129 - .133)
Shear (Min Strength lbs.):	420
Tensile (Min Strength lbs.):	530


Snap Lock Clip 1-5/8"

Snap Lock Bearing Plate

#10 Type A Pancake

#10 Self-Drill Pancake

#12-24 #5 Pt. Pancake

Standing Seam Panel Clip

Snap Lock 1-5/8"

Height = 1.81"

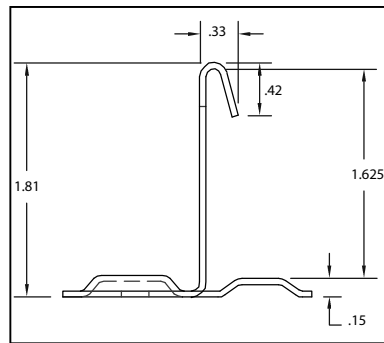
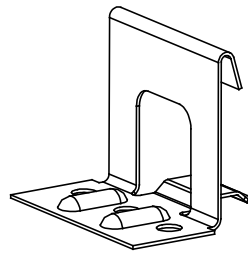
Width - 2.00"

3-Hole

Material: 18 ga. G-90 Galv.
18 ga. Stainless Steel

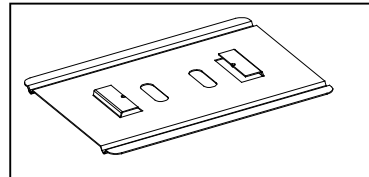
Carton Qty: 500

Part # 1241358



Snap Lock Bearing Plate

Part #	Size	Material	Ctn. Qty
1273465	4.75" x 6"	24 ga. G-90 Galv.	125



Clip Fasteners

#10 Type A Pancake Head

2/2 Quadrex Drive
Metal to wood

Available Material:
Carbon Steel, Zinc Plated
300 Series Stainless Steel



Available Length: 1", 1-1/2", 2"
Stock Lengths: 1"

#10 Self-Drill Pancake Head

2/2 Quadrex Drive
Carbon Steel, Zinc Plated
Metal to Metal

Min projection: 3/8" of threads
below substrate
Drilling capacity: .035 - .150



Available Length: 1", 1-1/2", 2"
Stock Lengths: 1"

#12-24 #5 Point Pancake Head

2/2 Quadrex Drive
Carbon Steel, Zinc Plated
Metal to metal

Min projection: 3/8" of threads
below substrate
Drilling capacity: .075 - .500



Length **Part #**
1-1/2" S4750F

Available Length: 1-1/2"

- Pipe opening can be easily customized on job sight utilizing clearly marked pipe diameters on each flashing.
- EPDM and silicone are both flexible materials, resistant to ultraviolet rays, cracking or weathering.
- Available EPDM black or silicone red
- The aluminum base is corrosion resistant and conforms easily to any panel configuration or roof pitch.
- Retrofit flashing is available for piping with welded caps or cross bars.

Square Base

Size	Pipe Size	Base Size
* 1	1/4 – 2-3/4"	4-1/2"
* 2	7/8 – 4"	6"
* 3	1/4 – 5-3/4"	8"
* 4	2-3/4 – 7"	10"
5	4 – 8-1/4"	11"
6	4-3/4 – 10"	12"
7	5-1/2 – 11"	14"
8	6-3/4 – 13-1/2"	17"
9	9-1/2 – 20-1/2"	25"
10	12 – 28-1/2"	34"

* Denotes stock item - EPDM Black



Round Base

Size	Pipe Size	Base Size
* 1	1/4 – 2-1/2"	4-3/4"
* 2	1-3/4 – 3"	6-1/4"
* 3	1/4 – 5"	7-3/4"
* 4	3 – 6-1/4"	9-1/4"
5	4-1/4 – 7-3/4"	10-3/4"
6	5 – 9"	12-1/4"
7	6 – 11"	14-1/4"
8	7 – 13"	16-1/2"
9	9 – 19"	25-1/2"

* Denotes stock item - EPDM Black



Retrofit Round Base Zipper

Size	Pipe Size	Base Size
* 1	3/4 – 2-3/4"	4-3/4"
* 2	2 – 7-1/4"	10-3/4"
3	3-1/4 – 10"	25-1/4"

* Denotes stock item - EPDM Black



Material Specifications

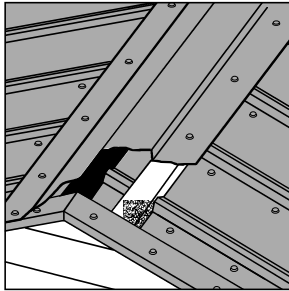


Test Type	EPDM	Silicone (Hi-Temp)
Advance ozone resistance test @ 500 ppm	70 hrs.	70 hrs.
High temperature:		
Intermittent	+275° F	+500° F
Continuous	+212° F	+437° F
Low temperature:		
Resistance tested to:	-65° F	-100° F
Tensile strength	1450 psi	700 psi



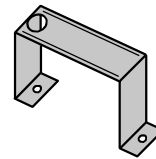
ProfileVent® is a unique attic ventilation system that has the metal roofing panel profile cut into the surface. With the added ease of roll-out installation, the low profile provides excellent curb appeal with a proven ventilation performance for the life of the roof.

- Limited lifetime warranty
- Glue spots prevent slipping during installation
- Fits under any ridge cap
- Fits any pitch 2:12 - 20:12
- One person roll-out installation
- Won't scratch panel finish
- Won't crack, dent or rust during shipping or installation
- Won't clog from airborne dust
- Prevents insect infiltration
- Prevents snow infiltration
- Provides proven roof ventilation
- Meets all model building codes
- Packaging in English, French and Spanish
- No waste - use leftovers on next job
- Will not support a flame
- Made in USA



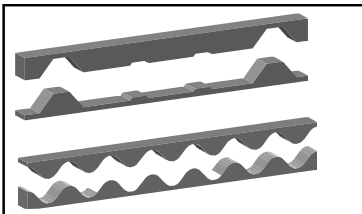
Panel profiles:

- 7/8" Corrugated R Panel
- 16" Standing Seam
- 18" Standing Seam



#792769
1-3/4" Ridge Cap
Anchor Clip for
standing seam profiles

WG-7™ Closure

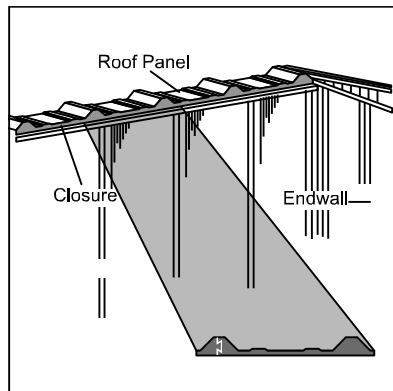


WG-7™ Closure for panel opening filler

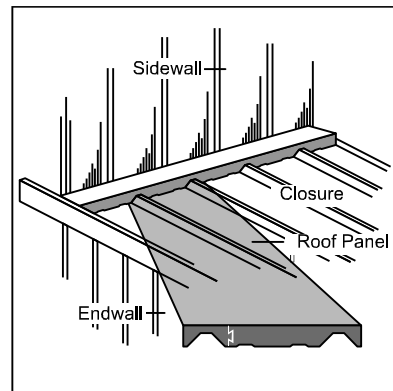
- Material thickness: 1"
- Color - Black
- Closed cell polyethylene foam for exceptional strength and compressibility
- Available with adhesive applied to the contact side of the panel surface assures positive positioning during installation
- Resists damaging ultra violet rays and ozone deterioration

In stock profiles:

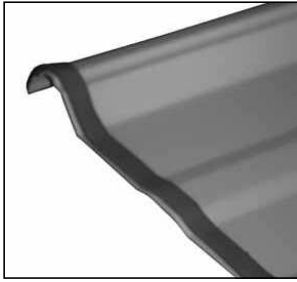
- 7/8" Corrugated R Panel
- Western Rib
- Standing Seam
- 1-1/2" B Deck
- W-2 Formlok
- W-3 Formlok
- Deep Vercor



Typical inside closure application



Typical outside closure application



Designed for side and end lap sealing of metal panels, roof vents and pipe flashing

PART #	DESCRIPTION	FEET/ROLL	ROLLS/CTN
V8000	3/16" Bead Butyl Sealant	25' Roll	48 rolls/ctn
* V8020	3/8" x 3/32" Butyl Sealant	45' Roll	48 rolls/ctn
V8040	1/2" x 3/32" Butyl Sealant	50' Roll	20 rolls/ctn
V8080	3/4" x 3/32" Butyl Sealant	50' Roll	14 rolls/ctn
* V8140	7/8 x 3/16" Double-Bead Butyl Sealant	25' Roll	8 rolls/ctn

* Stock item

Novaflex® Metal Roof Sealant



Novaflex® metal roof sealant provides unbeatable adhesion to most common construction materials, including Kynar®

- Non-corrosive, single component, oxime cured silicone sealant and/or adhesive
- Applications include metal roofs and siding, wood, galvanized steel, flashing, aluminium, PVC, windows and masonry
- Tack free in 10 minutes; completely cured in 2 days
- Permanently flexible; will not shrink, crack, sag or slump
- Provides a waterproof, weather tight seal
- Extrudes down to 0° F
- Will not freeze
- Available in 16 colors

NON-STOCK AVAILABLE COLORS

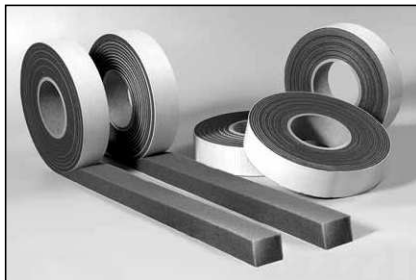
Sold in full case quantities only / 12 tubes per case

STOCK COLORS

PART #	COLOR
1305155	White
1305166	Brown
1305169	Translucent
1305171	Gutter Gray

PART #	COLOR	PART #	COLOR
1305156	Almond	1305163	Hemlock Green
1305157	Dark Bronze	1305164	Sandstone
1305158	Black	1305165	Red
1305159	Sierra Tan	1305167	Green
1305161	Medium Bronze	1305168	Antique White
1305162	Light Gray	1305170	Charcoal Gray

Hannoband® BG1 Joint Sealant Tape



Hannoband® BG1 is a pre-compressed, self-expanding polyurethane foam with acrylate dispersion impregnation

- Provides resistance to rain, wind, sound, draft and dust
- Use for sealing joints and seams in metal panels, gaps around door and window frames, and expansion joints in buildings
- Pressure sensitive adhesive for fast and easy installation
- Flame retardant

BG1 provides maximum environment protection by:

- Greatly reducing air infiltration
- Highest levels of resistance to wind driven rain
- Superior sound proofing
- Extended functional life
- Highest fire rating
- Smallest thermal change (temperature gradient) inside and outside of sealed joint

Part #	Roll Size	Expanded Size Width x Height	Length	Packaging
1305091	1/4" x 1"	1" x 1"	20.0 Ft.	12 rolls/ctn
1305092	3/8" x 1"	1" x 1-1/2"	15.0 Ft.	12 rolls/ctn



Available Metal Panel Colors

- Bright White
- Desert Beige
- Light Stone
- Polar White
- Sahara Tan
- Hawaiian Blue
- Ash Gray
- Koko Brown
- Emerald Green
- Charcoal
- Country Red
- Copper Penny
- Zatique Gray
- Weathered Copper
- Vintage Gray
- AZP Raw
- Weathered Rustic
- Weathered Metallic

Please call for color chip and chart

