

DIVISION 07 WESTERN EDITION

- ⊙ Engineered Metal Roof & Wall Systems
- ⊙ Architectural Sheet Metal
- ⊙ Specialty Coil & Sheet Products
- ⊙ Weathertight Warranties
- ⊙ Rollforming Equipment
- ⊙ Accessories & Components



**Sheffield Metals
International**

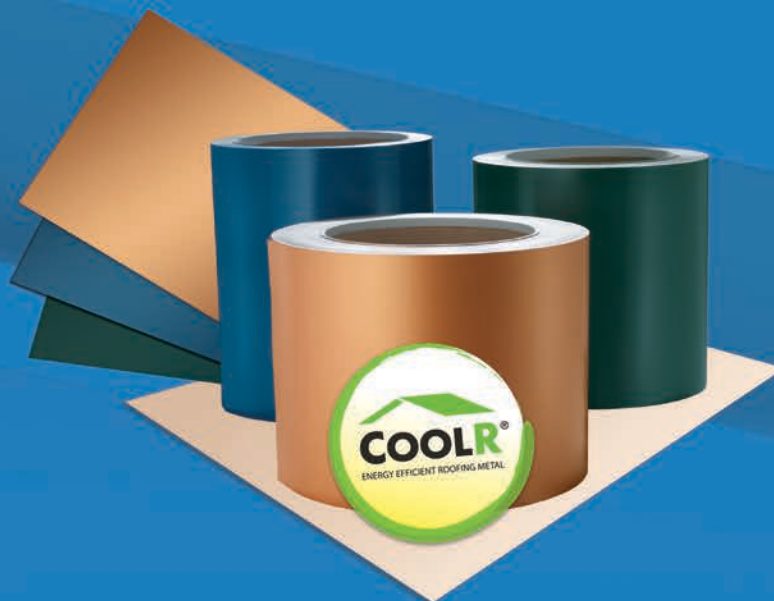
A **MAZZELLA** COMPANY

1.877.375.1477 (Denver)

1.877.853.4904 (Arlington)

1.408.916.3262 (San Jose)

www.sheffieldmetals.com



WHY SHEFFIELD METALS?

www.sheffieldmetals.com/resources >>

**CHECK OUT THE
SMI LEARNING
CENTER!**

METAL ROOFING
ARTICLES, VIDEOS,
& MORE!

Sheffield Metals International (SMI) is a leader in the distribution of coated and bare metal products, as well as Engineered Standing Seam Metal Roof and Wall Systems. We specialize in providing painted Galvalume® and aluminum for the architecturally driven metal panel industry.

SMI provides ...

- More than 50 colors continuously stocked in Galvalume® and several popular colors in aluminum sheet and coil.
- Color matching for virtually any custom color.
- Value-added services: slitting, cut-to-length, applying strippable PVC and re-rolling.
- Service to the entire geographic United States including Alaska, Hawaii and the Caribbean. SMI operates out of six strategic locations to expedite the shipping of products throughout the country.
- Products that meet Energy Star or LEED requirements.
- Galvalume® and aluminum products for LEED sustainability and beyond.
- Full-time, in-house Technical and Architectural Departments.
- Transferrable 40-year PVDF paint, 40-year SMP and optional 5- to 35-year weathertight warranties.

Sheffield Metals utilizes manufacturers of our metal roof and wall systems throughout the country. We are able to provide the complete package and support for our customers continually throughout the most complicated projects.



Sheffield Metals operates out of six facilities:

- Cleveland, Ohio
- Atlanta, Georgia
- Dallas, Texas
- Denver, Colorado
- San Jose, California
- La Mirada, California

Sheffield Metals has you covered from Coast-to-Coast!

PRODUCTS & SERVICES

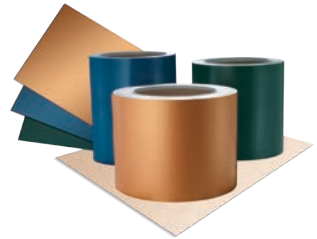
COOLR®

COOLR® is a family of sustainable, energy efficient roofing products which meet Energy Star and LEED 2009 & 2013 compliance with many of our paint finishes. COOLR® is available in a wide variety of colors, gauges, widths and substrates for low and steep slope applications.



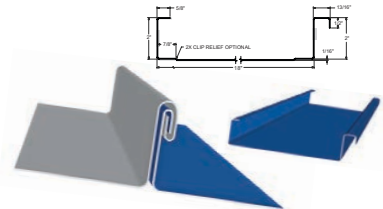
Architectural Sheet Metal

Sheffield Metals is a leader in the distribution of coated coil and sheet products for the metal roofing, walls and architectural sheet metal industry. Our architectural metal products are produced from full prime Galvalume®, Acrylic Coated Galvalume® and Aluminum substrates. Our products are coated with Valspar's Fluropon, a high performance Kynar 500® or Hylar 5000® based resin coating. Sheffield Metals stocks more than 50 colors and has the ability to custom paint virtually any color to suit a particular project.



Engineered Metal Roof & Wall Systems

Whether your project is residential or commercial, solid substrate or open framing, Sheffield Metals offers a complete line of Engineered Standing Seam Metal Roof and Wall Systems and related accessories to meet your needs. With panel profiles meeting industry standards, let Sheffield Metals provide you with a quality product that's been tested to last. We offer FBC and TDI approved profiles as well.



Components & Accessories

Sheffield Metals offers a complete line of accessories that are incorporated into your architectural and engineered metal roofing systems. We stock underlayment, sealant, butyl tape, clips, corrosion resistant and painted fasteners to match all of our finishes at our locations.



SMI Tech Stick

Sheffield Metals offers customer access with our Tech Stick, which offer contractors, architects and specifiers easy access to all of our engineering reports, product information, manuspecs, take-off services, and more. The Tech Stick simplifies the submittal process for contractors and helps streamline the design. All of this is available without a log-in on the Tech Stick and our website.












Rollformers & Sheet Metal Fabrication Equipment



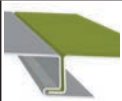
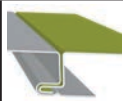

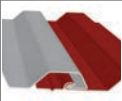
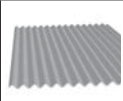
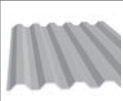


Sheffield Metals is also a trusted distributor of several sheet metal manufacturing machines, including portable rollforming manufacturer New Tech Machinery. NTM's portable roof panel, wall panel and gutter machines are recognized as the world's finest portable rollformers. They can be used directly at the job site or as stationary factory machines. Sheffield Metals' coils are compatible with New Tech Machinery equipment and produce outstanding finished panels.



PROFILE INFORMATION

Metal Roofing, Wall & Soffit Systems

									
	SMI 1.5 SL 550	SMI 1.5 MS	SMI 1.75 SL	SMI 2.0 MS	SMI 2.0 SCH MS	SMI 1.0 FF	SMI 1.5 FF	SMI 1.5 SL 450	SMI 1.5 SL 450 SL
Cutsheet	X	X	X	X	X	X	X	X	X
ManuSpec's	X	X	X	X	X	X		X	X
Uplift Tests	X	X	X	X	X				
UL 90 (only)	X	X	X	X	X	X		X	X
Air Infiltration	X	X	X	X	X				
Water Penetration	X	X	X	X	X				
Water Submersion		X		X	X				
Foot Traffic				X					
UL 2218	X	X	X	X		X		X	X
WTW	X	X	X	X	X			X	X
Paint Warranties	X	X	X	X	X	X	X	X	X
Details	X	X	X	X	X	X		X	X
Aluminum Engineering Available!									

									
	SMI 1.0 MS	SMI 2.0 MS A	SMI 1.0 FWP	SMI 1.0 FWP HEM	SMI 1.5 FWP HEM	SMI WAV	7/8 CORRUGATED	7.2 ULTRA BOX	ENGINEERED SYSTEM
Cutsheet	X	X	X	X	X	X	X	X	
ManuSpec's			X	X		X			
Uplift Tests			X	X		X	X	X	
UL 90 (only)		X					X	X	
Air Infiltration			X	X		X			
Water Penetration			X	X		X			
Water Submersion									
Foot Traffic									
UL 2218		X					X	X	
WTW	X	X	X	X	X				
Paint Warranties	X	X	X	X	X	X	X	X	
Details			X	X					
									

WARRANTIES & LEAD TIMES

Assurance Through Experience. Warranties that meet your needs, requirements and budget.

Sheffield Metals knows that your roof not only protects your family or business, but also keeps your most valuable and often irreplaceable assets safe. That's why we work closely with our chain of suppliers to ensure that we are able to continually offer the best products available. To complement our metal roof and wall systems we offer 40-year paint finish warranties for both PVDF and SMP coatings. Also available are two levels of single source weathertight warranties to provide quality protection for your investment.

Sheffield Metals offers Limited and No Dollar Limit weathertight warranties with standard time frames starting at 5 years through 35 years, based on the coverage you desire. All warranty projects are coordinated through our in-house Technical Department who ensure that all applicable requirements are met and inspect each project personally. Our use of certified contractors, time tested installation details and close company involvement deliver the highest quality installation available. Our warranties are fully transferable and designed to offer comprehensive protection to fit any budget or criteria.

Contact a Sheffield representative today to learn more about a warranty that's right for you.

The Fastest Lead Times

Since 2008, over 80% of our orders have shipped in three days or less!

If you are looking for the fastest lead times in the industry, you'll win with Sheffield Metals! We ship out most orders within three days because of our huge inventory (50 in-stock colors) and coast-to-coast locations.



Sheffield Metals' Engineered Systems have been designed to meet Army Corp. of Engineers (ACOE) standards and can perform on projects small or large no matter the performance requirements.



ENGINEERED METAL ROOFING SYSTEMS

SMI 1.5" SnapLock 550 Standing Seam

ALUMINUM
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AVAILABLE!

Panel Information:

Panel Type:	Standing Seam
Panel Seam:	SnapLock
Panel Width:	19" (Steel) / 15" (Aluminum)
Seam Height:	1.5"
Panel Material:	22 GA - 24 GA Min, .032
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	2/12
Substrate:	Plywood (Steel), Plywood, B-Deck, B-Deck with ISO (Aluminum)



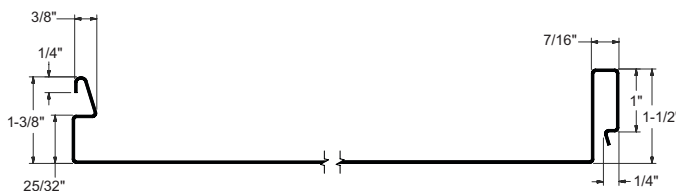
Panel Testing:

Uplift Resistance:	UL 580, UL 1897, UL 90
Air Infiltration:	ASTM E 1680
Water Penetration:	ASTM E 1646
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A
Texas Department of Insurance Approval:	RC-396*
FBC Non-HVHZ Approval:	FL18316*

Panel Notes:

- With this wide panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- This panel uses a 24" coil (Steel) / 20" coil (Aluminum). Maximum width coil of 24".
- This panel uses 5-1/8" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.27, the total will be the amount of coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.

* Available in steel only.



ENGINEERED METAL ROOFING SYSTEMS

SMI 1.5" Mechanical Seam Standing Seam

ALUMINUM
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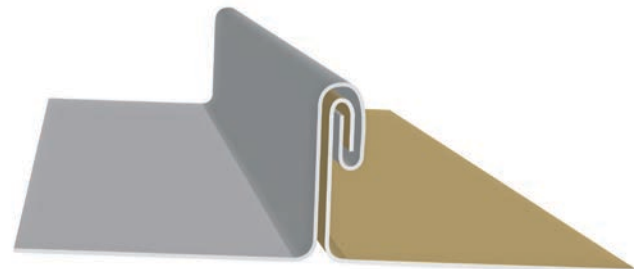
Panel Information:

Panel Type:	Standing Seam
Panel Seam:	Mechanical
Panel Width:	16"
Seam Height:	1.5"
Panel Material:	22 GA - 24 GA Min, .032
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	2/12
Substrate:	Plywood, B-Deck, B-Deck w/ISO



Panel Testing:

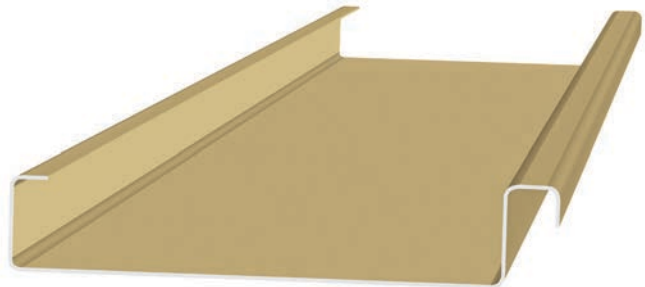
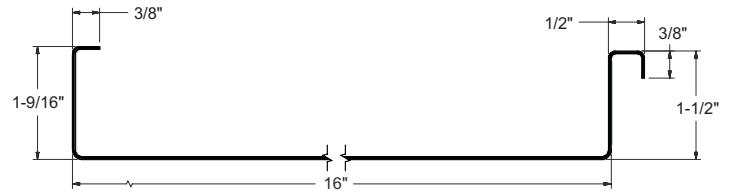
Uplift Resistance:	UL 580, UL 1897, UL 90
Air Infiltration:	ASTM E 1680
Water Penetration:	ASTM E 1646
Water Submersion:	ASTM E 2140*
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A
Texas Department of Insurance Approval:	RC-386*, RC-395*, RC-397*
FBC Non-HVHZ Approval:	FL18316*



Panel Notes:

- With this panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- For slopes lower than a 2/12 roof pitch, contact SMI Technical Department for further installation direction and requirements.
- This panel uses a 20" coil. Maximum width coil of 20".
- This panel uses 4" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.25, the total will be the amount coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.

* Available in steel only.



ENGINEERED METAL ROOFING SYSTEMS

SMI 1.75" SnapLock Standing Seam

Panel Information:

Panel Type:	Standing Seam
Panel Seam:	SnapLock
Panel Width:	18" (Steel) / 16" (Aluminum)
Seam Height:	1.75"
Panel Material:	22 GA - 24 GA Min, .040
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	2/12
Substrate:	Plywood, B-Deck, B-Deck w/ISO

ALUMINUM
ENGINEERING
AVAILABLE!



Panel Testing:

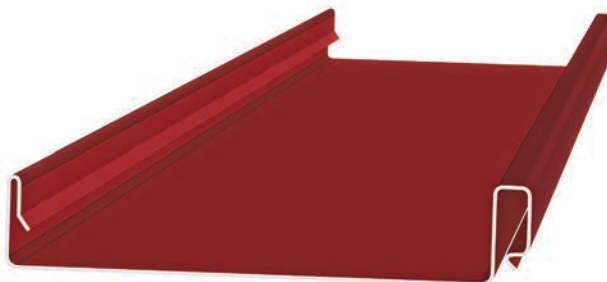
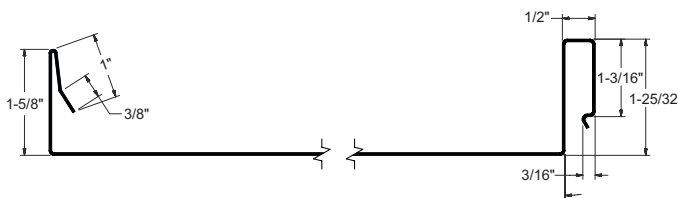
Uplift Resistance:	UL 580, UL 1897, UL 90
Air Infiltration:	ASTM E 1680
Water Penetration:	ASTM E 1646
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A
Texas Department of Insurance Approval:	RC-387*, RC-388*, RC-389*
FBC Non-HVHZ Approval:	FL18316*



Panel Notes:

- With this panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- This panel uses a 24" coil (Steel) / 22" coil (Aluminum).
- This panel uses 6-1/8" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.34, the total will be the amount of coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.

* **Available in steel only.**



ENGINEERED METAL ROOFING SYSTEMS

SMI 2.0" Mechanical Seam Standing Seam

ALUMINUM
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Panel Information:

Panel Type:	Standing Seam
Panel Seam:	Mechanical
Panel Width:	18" (Steel) / 16" (Aluminum)
Seam Height:	2.0"
Panel Material:	22 GA - 24 GA Min, .040
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	.5/12 (Steel) / 2/12 Aluminum
Substrate:	Open Framing*, Plywood, B-Deck, B-Deck w/ISO



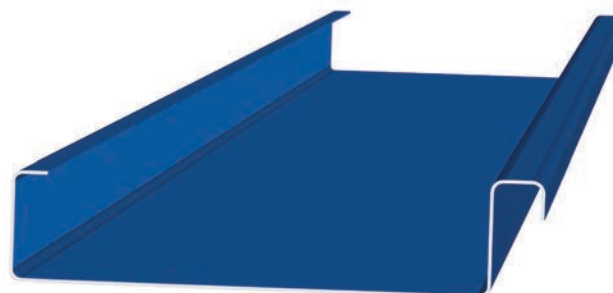
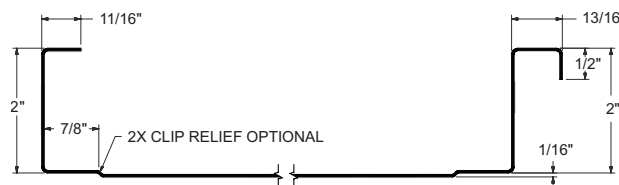
Panel Testing:

Uplift Resistance:	ASTM E1592*, UL 580, UL 1897, UL 90
Air Infiltration:	ASTM E 1680
Water Penetration:	ASTM E 1646
Water Submersion:	ASTM E 2140*
Foot Traffic:	FM 4471*
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A
Texas Department of Insurance Approval:	RC-383*, RC-384*, RC-385*, RC-390*
FBC Non-HVHZ Approval:	FL18316*

Panel Notes:

- With this panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- For slopes lower than a 2/12 roof pitch, install sealant per ASTM E 2140.
- This panel uses a 24" coil (Steel) / 22" coil (Aluminum).
- This panel uses 5-13/16" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.34, the total will be the amount of coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.

* Available in steel only.



ENGINEERED METAL ROOFING SYSTEMS

SMI 2.0" SCH Mechanical Seam Standing Seam

Panel Information:

Panel Type:	Standing Seam
Panel Seam:	Mechanical
Panel Width:	18-3/4"
Seam Height:	2.0"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	.5/12
Substrate:	Plywood, B-Deck, B-Deck w/ISO

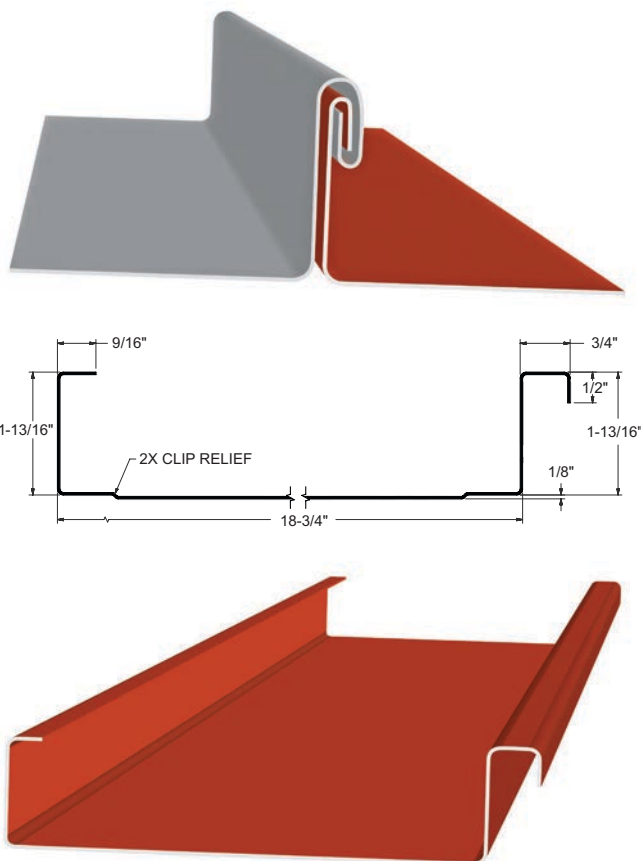


Panel Testing:

Uplift Resistance:	UL 580, UL 1897, UL 90
Air Infiltration:	ASTM E 1680
Water Penetration:	ASTM E 1646
Water Submersion:	ASTM E 2140

Panel Notes:

- With this 24 GA, 18-3/4" wide panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- For slopes lower than a 2/12 roof pitch, install sealant per ASTM E 2140.
- This panel uses a 24" coil. Maximum width coil of 24".
- This panel uses 5-9/16" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.28, the total will be the amount of coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.



METAL ROOFING SYSTEMS

SMI 1.0" FF SnapLock Standing Seam

Panel Information:

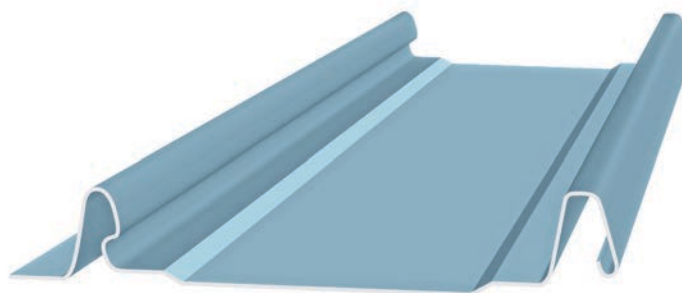
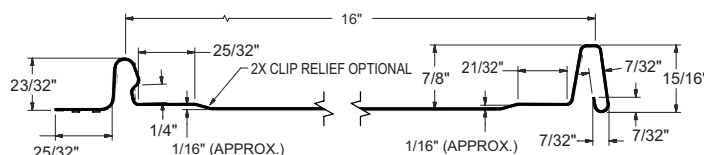
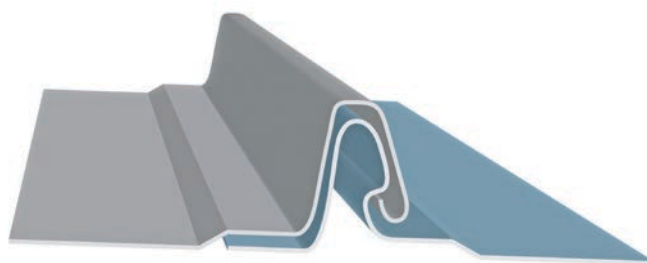
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Panel Seam:	SnapLock
Panel Width:	16"
Seam Height:	1.0"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	None
Minimum Slope:	3/12
Substrate:	Plywood

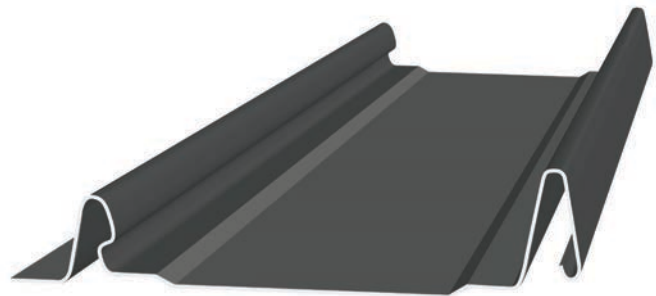
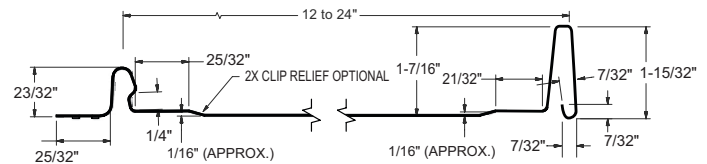
Panel Testing:

Uplift Resistance:	UL 90
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A
Texas Department of Insurance Approval:	RC-560

Panel Notes:

- With this 24 GA, 16" wide panel, you may opt to use heavier gauge coil and narrower width panels. Fastener spacing will not change.
- This panel uses a 20" coil. Maximum width coil of 24".
- This panel uses 4-1/16" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.25, the total will be the amount coil needed to manufacture the panels.
- This panel is NOT approved for Weathertight Warranties.





METAL ROOFING SYSTEMS

SMI 1.5" SnapLock 450 / 450 SL Standing Seam

Panel Information:

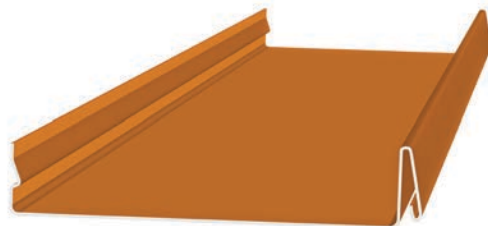
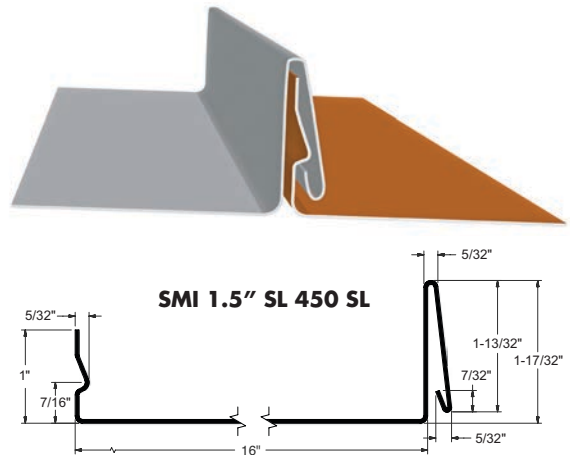
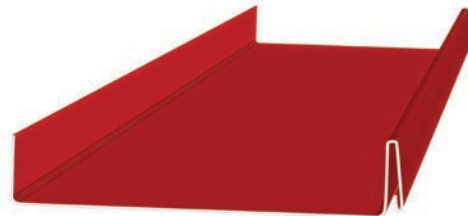
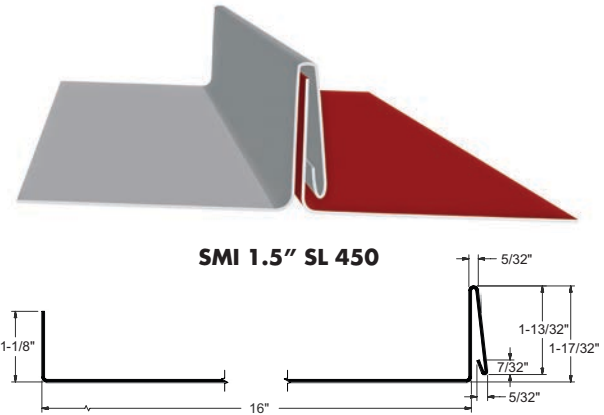
Panel Type:	Standing Seam
Panel Seam:	SnapLock
Panel Width:	16"
Seam Height:	1.5"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	3/12
Substrate:	Plywood

Panel Testing:

Uplift Resistance:	UL 90
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A
Texas Department of Insurance Approval:	RC-564, RC-561

Panel Notes:

- With this 24 GA, 16" wide panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- This panel uses a 20" coil.
- This panel uses 4-1/8" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.25, the total will be the amount of coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.



METAL ROOFING SYSTEMS

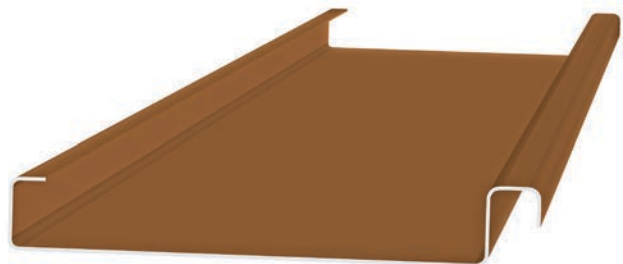
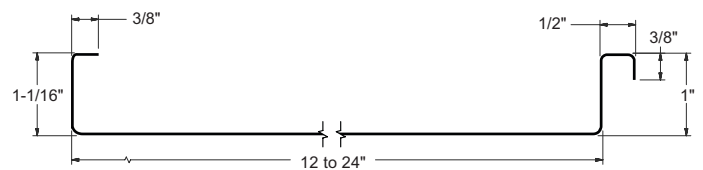
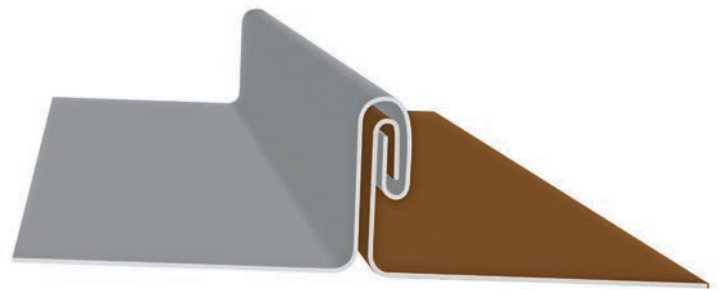
SMI 1.0" Mechanical Seam Standing Seam

Panel Information:

Panel Type:	Standing Seam
Panel Seam:	Mechanical
Panel Width:	17"
Seam Height:	1.0"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional
Minimum Slope:	3/12

Panel Notes:

- This panel uses a 20" coil. Maximum width coil of 20".
- This panel uses 3" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.18, the total will be the amount coil needed to manufacture the panels.
- Suitable for zinc and copper.



METAL ROOFING SYSTEMS

SMI 2.0" Mechanical Seam (ARMCO) Standing Seam

Panel Information:

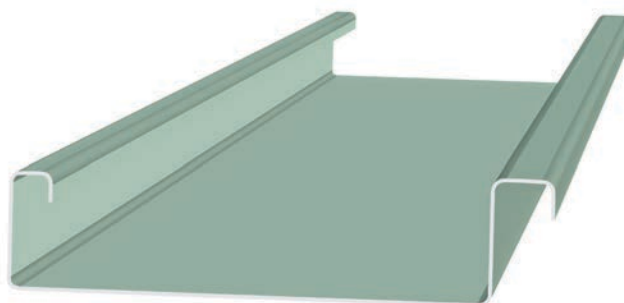
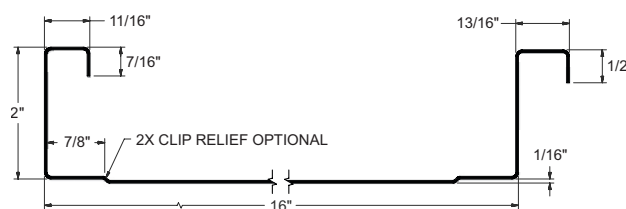
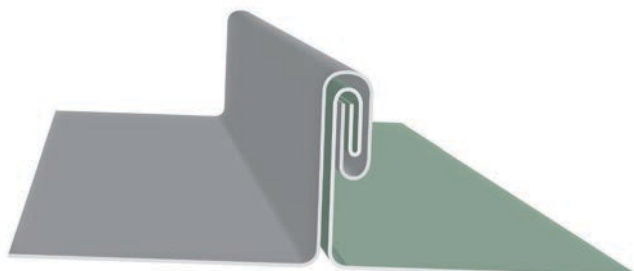
Panel Type:	Standing Seam
Panel Seam:	Mechanical
Panel Width:	16"
Seam Height:	2.0"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional
Panel Clip:	Required Per Engineering
Minimum Slope:	2/12
Substrate:	Open Framing, B-Deck w/ISO

Panel Testing:

Uplift Resistance:	UL 90
Hail Rating:	Class 4 Impact UL 2218
Fire Rating:	UL Class A

Panel Notes:

- With this 24 GA, 16" wide panel engineering, you may opt to use heavier gauge coil and narrower width panels. Clip spacing will not change.
- This panel uses a 22" coil.
- This panel uses 6-1/8" of material to form the panel.
- If you take the square footage of the roof and multiply that by 1.375, the total will be the amount of coil needed to manufacture the panels.
- This panel is approved for Weathertight Warranties.



ENGINEERED METAL WALL & SOFFIT SYSTEMS

SMI 1.0" FWP Flush Wall & Soffit Panel

Panel Information:

Panel Type:	Wall / Soffit
Panel Width:	12"
Seam Height:	1.0"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional

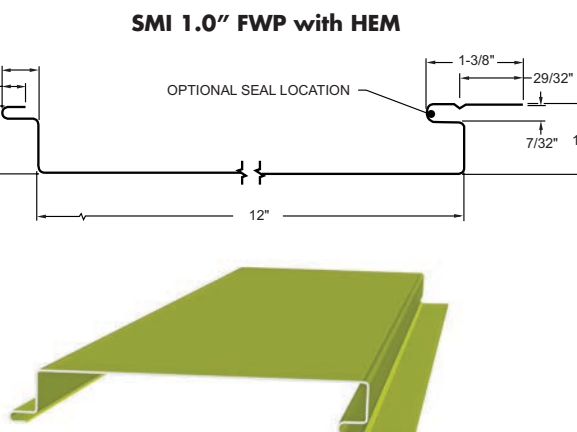
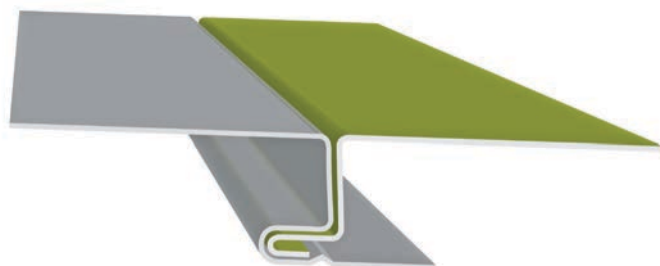
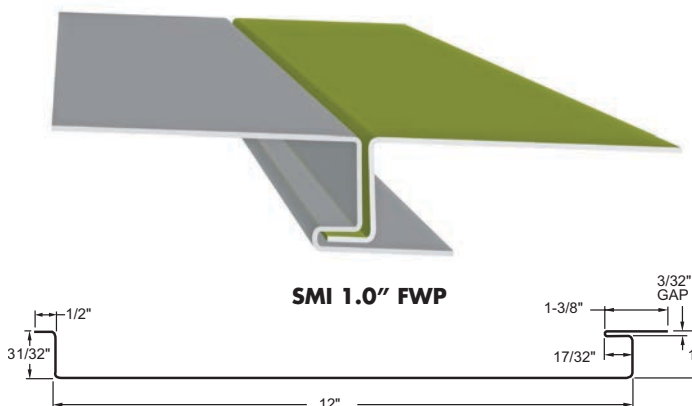
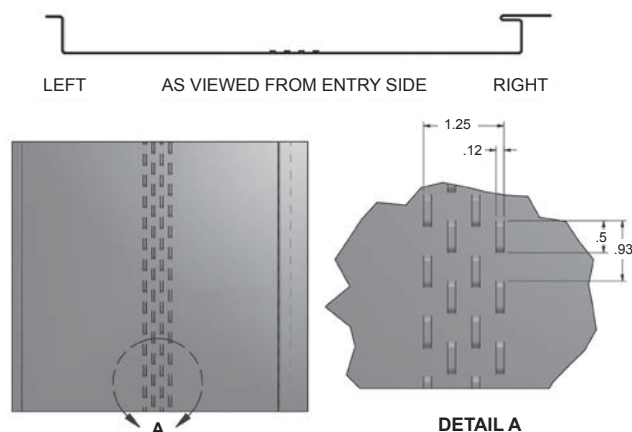
Panel Testing:

Uplift Resistance:	ASTM E 1592, UL 90
Air Infiltration:	ASTM E 283
Water Penetration:	ASTM E 331

Panel Notes:

- This panel uses a 16" coil.
- This panel uses 4" of material to form the panel.
- If you take the square footage of the wall and multiply that by 1.25, the total will be the amount coil needed to manufacture the panels.
- Perforation opening size .50 [12.7] X .12 [3.0] = .06 Sq. In. [38.7 sq. mm.]
- Openings per 12 inch length [304.8mm] = 51.25
- Net Free Area / 12 inch = .06 Sq. In. X 51.25 = 3.08 Sq. In. [Net Free Area 1304.8mm = 38.7 sq. mm X 51.25 = 1983 sq. mm]

Net Free Air Space:



METAL WALL & SOFFIT SYSTEMS

SMI 1.5" FWP with HEM Flush Wall & Soffit Panel

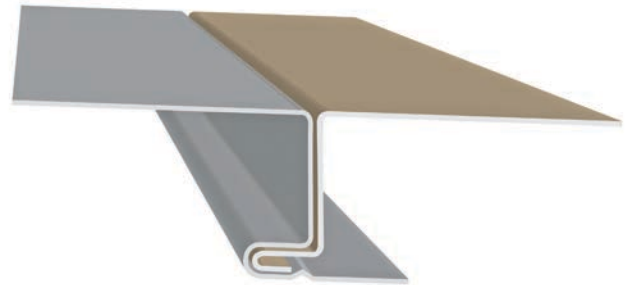
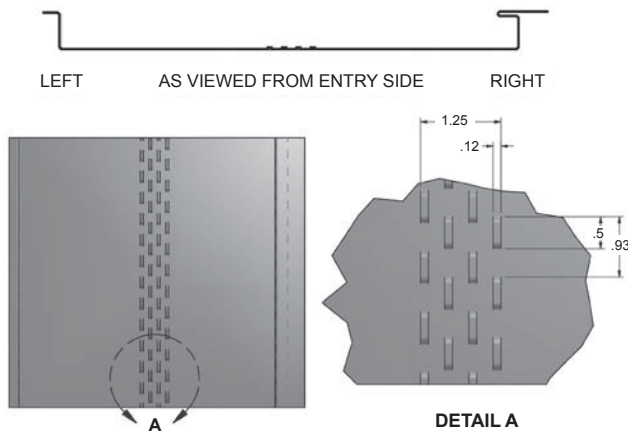
Panel Information:

Panel Type:	Wall / Soffit
Seam Height:	1.5"
Panel Material:	22 GA - 24 GA Min
Panel Surface:	Smooth / Embossed Optional

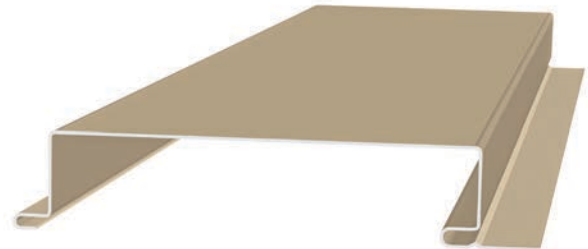
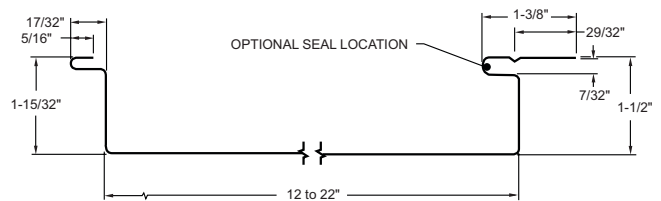
Panel Notes:

- This panel uses a 17" coil, which produces a 12" panel.
- This panel uses 5" of material to form the panel.
- If you use a 20" coil, you take the square footage of the wall and multiply that by 1.416, the total will be the amount coil needed to manufacture the panels.
- Minimum panel width is 12".

Net Free Air Space:



SMI 1.5" FWP with HEM



ENGINEERED METAL WALL SYSTEMS

WAV Wall Panel Profile

The WAV profile is well-suited for a variety of architectural market segments, including retail, hospitality, residential mixed-use, independent living, sports centers, municipal and interior design.

Panel Information:

Panel Type:	Wall
Rib Height:	7/8"
Panel Material:	22 GA – 24 GA Min
Panel Surface:	Smooth / Embossed Optional

Panel Testing:

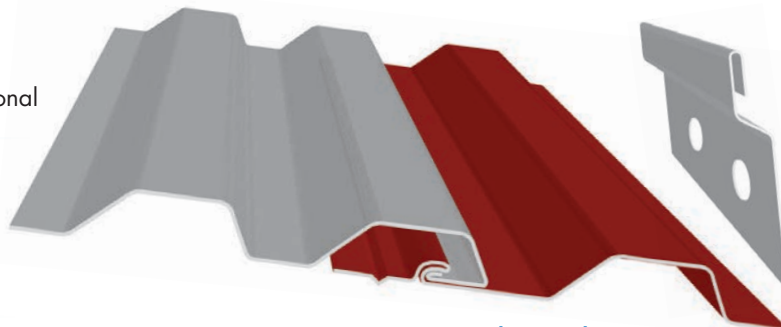
Structural Performance:	ASTM E 330
Air Infiltration:	ASTM E 283
Water Penetration:	ASTM E 331

Panel Notes:

The WAV-16-4F uses 24 or 22 Ga. with a 24" wide stretch out for a finished panel width of 16". The concept here is similar to that of a fastener flange. When using this option, we recommend that panel lengths stay at 25' or less. The SMI WAV with Flange (F) was tested in accordance with ASTM E 330 and ASTM E 283 / E 331 standards.

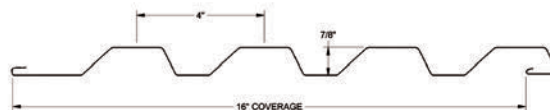


WAV™ Wall Panel Machine The Industry's Only Portable WAV Profile Machine!



WAV Panel & Clip

The WAV-16-4C uses 24 or 22 Ga. with a 22-1/4" wide stretch out for a finished panel width of 16". This panel uses a clip or a cleat (C) that allows for expansion and contraction of the wall system. The SMI WAV was tested in accordance with ASTM E 330 and ASTM E 283 / E 331 standards.



METAL WALL SYSTEMS

7/8" Corrugated Panel

Panel Information:

Available Gauges:	22 GA & 24 GA
Weight:	5.00 lbs / LnFt (22), 4.00 lbs / LnFt (24)
Substrate:	AZ-50, Grade D, 50,000 ksi
Available Materials:	Painted, Galvalume®, ReziBond®, Cor-Ten™, 16 & 20 oz Copper
Paint Systems:	Sherwin Williams PVDF Fluoropon, Kynar 500® / Hylar 5000®
Warranties:	Paint - 40 Year / Substrate - 25.5 Year
Minimum Slope:	2:12 with Bead Seal and Stitch Screws installed 1'0" up the panel at side laps

Panel Testing:

- UL 580 Wind Uplift (Class 90)
- UL 2218 Class 4 Hail Impact
- UL 790 Class A Fire Rating

Application Details:

Fastener Guide:

#10 Woodfast screws are designed for use with dimensional lumber
#14 Wafer screws are designed for use with plywood sheeting, OSB, and wafer wood (7/16" minimum thickness)
#12 Tek Screws are designed to be used with structural steel up to 3/16" thickness

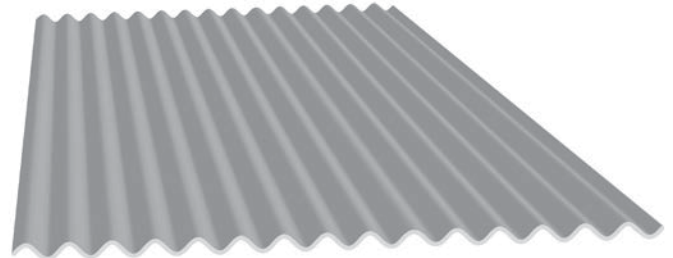
Roof Application:

Screws are to be installed following the below details, installed no more than 3'6" up the panel. Predrilling is recommended to ensure water tightness. It is recommended to use Bead Seal between every panel at the side lap with Stitched Screws installed every 1'0" up the panel. Any slope below a 4:12 must use Bead Seal and Stitch Screws.

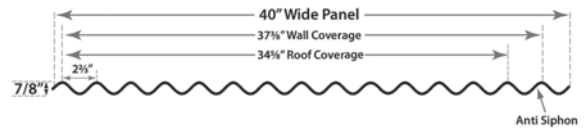
Wall Application: Screws are to be installed following the below details, installed no more than 3'6" up the panel. Predrilling is recommended to ensure water tightness.

Please Note:

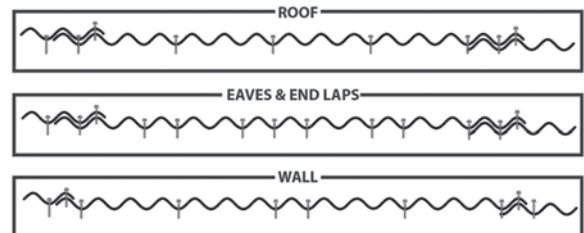
It is the responsibility of the builder to ensure that purlins are adequately spaced to meet specific engineering requirements.



Material Specifications:



Screw Patterns:



METAL WALL SYSTEMS

7.2 Box Panel

Panel Information:

Available Gauges:	22 GA, 24 GA & 26 GA
Weight:	5.00 lbs / LnFt (22), 4.00 lbs / LnFt (24), 3.00 lbs / LnFt (26)
Substrate:	AZ-50, Grade D, 50,000 ksi
Available Materials:	Painted, Galvalume®, ReziBond®, Cor-Ten™, Cold Roll, 16 & 20 oz Copper
Paint Systems:	Sherwin Williams PVDF Fluoropon, Kynar 500® / Hylar 5000®
Warranties:	Paint - 40 Year / Substrate - 25.5 Year
Minimum Slope:	1:12 with Bead Seal and Stitch Screws installed 1'0" up the panel at all side laps

Panel Testing:

- UL 580 Wind Uplift (Class 90)
- UL 2218 Class 4 Hail Impact
- UL 790 Class A Fire Rating

Application Details:

Fastener Guide:

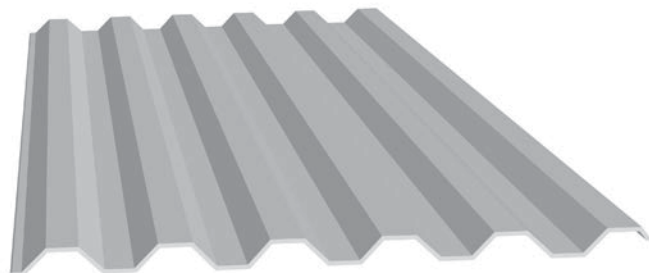
#10 Woodfast screws are designed for use with dimensional lumber
#14 Wafer screws are designed for use with plywood sheeting,
OSB, and wafer wood (7/16" minimum thickness)
#12 Tek Screws are designed to be used

Fastener Application:

Screws are to be applied in the middle of every other trough and then on both sides of the rib at each overlap of the panels, installed not more than 5'0" up the panel. At eaves and panel end laps, use a double screw pattern, and fasten into the middle of every trough. On all roofing applications, Mastic Tape must be applied between every panel at the side lap with Stitch Screws installed every 1'0" up the panel.

Please Note:

It is the responsibility of the builder to ensure that purlins are adequately spaced to meet specific engineering requirements.



Material Specifications:



Screw Patterns:



24 GA. PVDF COLOR SELECTION

Environmentally Smart Colors—Designed Energy Efficient

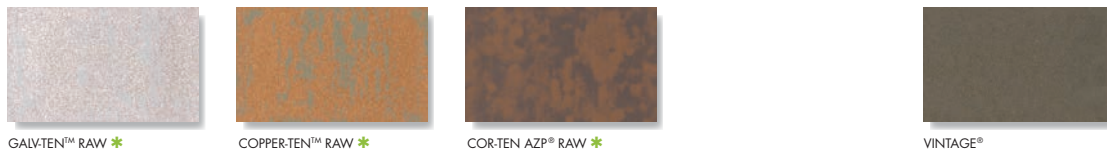


Metallic Colors



Non-Painted

Weathered Colors



* Available at a slight price premium.

+ Available in 26ga SMP

* Also available in Robust.

Colors shown are matched as accurately as possible, but may vary slightly from finished product. These rich and vibrant colors are produced with either Kynar 500® or Hylar 5000® resins, which provide superior color retention and allow Sheffield Metals to offer non-prorated coating warranties for most applications. Coating warranty varies for Regal Red, Matte Black, Copper, Champagne, Silver, and Pre-Weathered Galvalume. Steelscape's Vintage carries a 20 year Finish Warranty. Please contact your representative for more information.

Galvalume® is a registered trademark of BIEC International Inc. | Hylar 5000® is a registered trademark of Solvay Solexis, Inc. | Kynar 500® is a registered trademark belonging to Arkema Inc. | Corten AZP® is a registered trademark and the USS in Circle, Weathered Metal Series™, Galv-Ten™, and Copper-Ten™ are trademarks of United States Steel Corporation. All trademarks are used under license of the United States Steel Corporation.



24 GA. PVDF STOCK AVAILABILITY MATRIX

			LEED 2009	LEED 2013	ISR	EMI	3 Yr.	SRI	GALVALUME			ALUMINUM			
									24 ga.	24 ga.	24 ga.	.032 nom.	.032 nom.	.040 nom.	.050 nom.
									40.375"	44.375"	48.375"	40.500"	48.000"	48.000"	48.000"
Aged Copper		★	L	L	0.47	0.85	0.46	53	●		●	●	●		
Ash Gray	+	★	L	L	0.39	0.84	0.39	41	●		●	●	●		
Burgundy		★			0.25	0.85	0.23	23	●		●				
Champagne Metallic		★	L		0.37	0.80	0.35	37	●		●				
Charcoal Gray	+	★			0.29	0.84	0.28	28	●		●	●	●		
Colonial Red	+	★	L		0.30	0.85	0.29	30	●	●	●	●	●	●	
Copper Metallic		★	L	L	0.49	0.86	0.47	56	●		●	●	●		
Dark Bronze	+	★			0.26	0.84	0.25	24	●	●	●	●	●	●	●
Dove Gray		★		L	0.49	0.86	N/A	56	●		●	●	●		
Evergreen	+	★			0.27	0.86	0.26	26	●	●	●	●	●	●	
Hartford Green	+	★			0.26	0.85	0.25	24	●		●		●	●	
Hemlock Green		★	L		0.29	0.86	0.29	29	●		●				
Mansard Brown	+	★			0.27	0.86	0.25	26	●		●		●	●	
Matte Black	+	★			0.29	0.83	0.27	27	●		●		●		
Medium Bronze	+	★	L		0.30	0.87	0.28	31	●	●	●	●	●	●	●
Patina Green		★			0.28	0.87	0.28	28	●		●				
Pre-weathered Galvalume®		★			0.30	0.79	0.28	27	●		●	●	●		
Regal Blue	+	★			0.26	0.85	0.25	24	●		●				
Regal Red	+	★	L		0.42	0.83	0.41	45	●		●				
Regal White	+	★	L		0.67	0.86	0.67	81	●	●	●	●	●	●	●
Sandstone	+	★	L	L	0.54	0.86	0.53	63	●	●	●	●	●	●	●
Sierra Tan	+	★	L		0.35	0.86	0.34	37	●	●	●	●	●	●	●
Silver Metallic		★	L	L	0.59	0.79	0.60	67	●		●	●	●	●	●
Slate Blue		★			0.29	0.85	0.28	28	●		●				
Slate Gray	+	★	L		0.33	0.84	0.33	33	●	●	●	●	●	●	●
Solar White		★	L	L	0.68	0.85	0.66	82	●		●	●	●	●	●
Stone White		★	L		0.60	0.86	0.56	71	●		●			●	
Surrey Beige		★		L	0.42	0.85	0.41	46	●		●				
Terra Cotta		★	L		0.35	0.86	0.35	37	●		●	●	●	●	
Acrylic Coated Galvalume®		★	L	L	0.67	0.14	0.55	56	●		●				
Cor-Ten AZP® Raw					0.32	0.89	N/A	34	●		●				
Copper-Ten™ Raw					0.45	0.88	N/A	51	●		●				
Galv-Ten™ Raw					0.49	0.84	N/A	55	●		●				
Vintage®					0.30	0.70	0.27	22	●		●				
Custom Colors									▲	▲	▲	▲	▲	▲	▲

Notes:

- All of Sheffield's CoolR® metal is painted with a .20 mil primer and .70 - .90 mil Top Coat of 70% Kynar 500® PVDF resin-based coating or Hylar 5000®. The reverse side has a .20 primer and .30 - .40 backer coating.
- 22 gauge steel available in 44.375" and 48.375" widths upon request.
- For low slope roofing to meet Energy Star requirements, the ISR must be ≥ 0.65 . After 3 years, the solar reflectance must be ≥ 0.50 .
- For steep slope roofing to meet Energy Star requirements, the ISR must be ≥ 0.25 . After 3 years, the solar reflectance must be ≥ 0.15 .
- For low slope roofing to meet LEED 2013 requirements, the SRI must be ≥ 82 .
- For steep slope roofing to meet LEED 2013 requirements, the SRI must be ≥ 39 .
- Low slope is defined as $\leq 2:12$. ISR ≤ 0.65 . After 3 years, the solar reflectance must be ≤ 0.50 .
- Steep slope is defined as $> 2:12$. ISR ≤ 0.25 . After 3 years, the solar reflectance must be ≤ 0.15 .

Key:

- = Stocked Item
- ▲ = Available on Custom Order Basis
- ★ = Energy Star Compliant
- L = LEED Compliant
- ISR = Initial Solar Reflectance
- EMI = Emissivity
- SRI = Solar Reflectance Index
- +

SPECIALTY COIL & SHEET PRODUCTS

Zinc / Copper Sheet & Coil Products



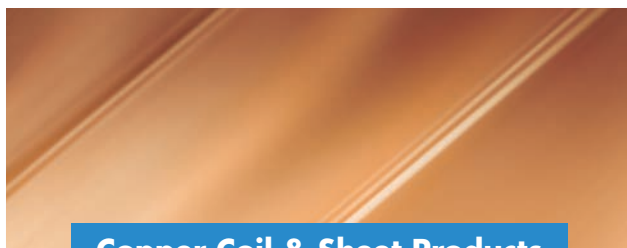
Zinc Coil & Sheet Products

Advantages:

- Aesthetic, elegant material
- Durable 50 to 100+ years lifespan with adequate design and installation in healthy environments.
- Natural, high-value recyclable material
- Low energy requirement for production
- Low maintenance
- Clear runoff

Manufacturing Capabilities:

- 0.65 mm (26 Gage)
- 0.7 mm (24 Gage)
- 0.8 mm (22 Gage)
- 1.0 mm (20 Gage)
- 1.2 mm (18 Gage)
- 1.5 mm (16 Gage)



Copper Coil & Sheet Products



Our wide range of elZinc® finished products:



elZinc
Rainbow®
Blue



elZinc
Rainbow®
Red



elZinc
Rainbow®
Gold



elZinc
Rainbow®
Green



elZinc
Rainbow®
Black



elZinc
Rainbow®
Brown



elZinc
Slate®



elZinc
Natural®

Colors shown are matched as accurately as possible, but may vary slightly from finished product. Please contact your representative for more information.

Sheffield Metals' Engineering is performed with NTM profiles.



ACCESSORIES & COMPONENTS

	CLIPS	We stock a full line of roofing clips for engineered and non-engineered applications. Offerings for New Tech Machinery profiles as well as a number of other panel machines are available. Clips come in a variety of gauges in either galvanized or stainless steel.
	CLIP SCREWS	We stock a full line of metal roofing fasteners including low profile clip screws and pancake heads in a variety of lengths. We can also provide specially coated and stainless steel for other challenging applications.
	PANEL-TITES	We stock Panel-Tites® in a variety of lengths for exposed fasteners for both wood and metal applications in our full line of 30+ finishes.
	POP RIVETS	We stock #43 stainless steel rivets in mill finish as well as 30+ colors painted to match our metal roofing finishes.
	UNDERLAYMENTS	We stock the full line of Sharkskin synthetic roof underlayments. Sharkskin offers a variety of premium products that were made by a roofer for roofers. Sharkskin Ultra and Ultra SA are approved underlayments for Sheffield Metals' Weathertight Warranty program.
	PAINT PENS	We stock PVDF air-dry color matched paint pens in over 30 colors to help installers touch up minor scratches and exposed cut edges.
	SEALANTS	We proudly stock NovaFlex Metal Roof Sealant in over 25 colors. NovaFlex is a premium silicone-based sealant designed specifically for metal roofing. NovaFlex is approved for Weathertight Warranties.
	DEKTITES	Dektite® flashers come in nine different sizes for round pipes ranging from 1/4" to 19" in diameter and are stocked in grey EPDM. Special order in 10+ colors to match your roof. Red Brick silicone is available for high temperature applications.
	TAPES	We stock several widths and lengths of butyl tape. With pressure, it fills voids between Galvalume® and painted metal.
	S-5!	We've partnered with S-5!, the industry leader and innovator, to distribute their attachment systems for snow retention, utility solutions and solar mounting. S-5! can provide a non-penetrating engineered solution for standing seam metal roofing system accessories.

METAL ROOFING ATTACHMENTS

S-5! Metal Roofing Attachments

S-5!'s versatile line of aluminum and brass attachment products fit the majority of today's standing seam and exposed-fastened metal roof profiles, including most structural and architectural profiles.



S-5! clamps and brackets have been extensively laboratory tested on a variety of seam types, profiles and materials to determine ultimate tensile failure loads. The versatility, simple design, strength and ample size make the S-5! clamps perfect for snow retention solutions, solar solutions and utility solutions. S-5! Mini clamps are ideal for solar solutions and other common applications.



NTM PANEL NAME	SMI PANEL NAME	S-5 CLAMPS
SS100	SMI 1.0" MS (Single Fold / 90°)	S-5-S & S-5-S Mini
	SMI 1.0" MS (Double Fold / 180°)	S-5-E & S-5-E Mini
SS150	SMI 1.5" MS (Single Fold / 90°)	S-5-S & S-5-S Mini
	SMI 1.5" MS (Double Fold / 180°)	S-5-E & S-5-E Mini
SS200	SMI 2.0" MS (Single Fold / 90°)	S-5-H90 & S-5-H90 Mini
	SMI 2.0" MS (Double Fold / 180°)	S-5-V & S-5-V Mini
SS210A	SMI 2.0" MS (ARMCO) (Single Fold / 90°)	S-5-H90 & S-5-H90 Mini
	SMI 2.0" MS (ARMCO) (Double Fold / 180°)	S-5-V & S-5-V Mini
Schlebach 2" Mech	SMI 2.0" SCH MS (Single Fold / 90°)	S-5-H90 & S-5-H90 Mini
	SMI 2.0" SCH MS (Double Fold / 180°)	S-5-V & S-5-V Mini
SS450	SMI 1.5" SnapLock 450	S-5-S & S-5-S Mini / S-5-N & S-5-N Mini / S-5-N 1.5 & S-5-N 1.5 Mini
SS450 SL	SMI 1.5" SnapLock 450 SL	S-5-S & S-5-S Mini / S-5-N & S-5-N Mini / S-5-N 1.5 & S-5-N 1.5 Mini
SS550	SMI 1.5" SnapLock 550	S-5-S & S-5-S Mini
SS675	SMI 1.75" SnapLock	S-5-S & S-5-S Mini / S-5-V & S-5-V Mini
FF100	SMI 1.0" FF SnapLock	S-5-N & S-5-N Mini / S-5-S & S-5-S Mini
FF150	SMI 1.5" FF SnapLock	S-5-N 1.5 & S-5-N 1.5 Mini

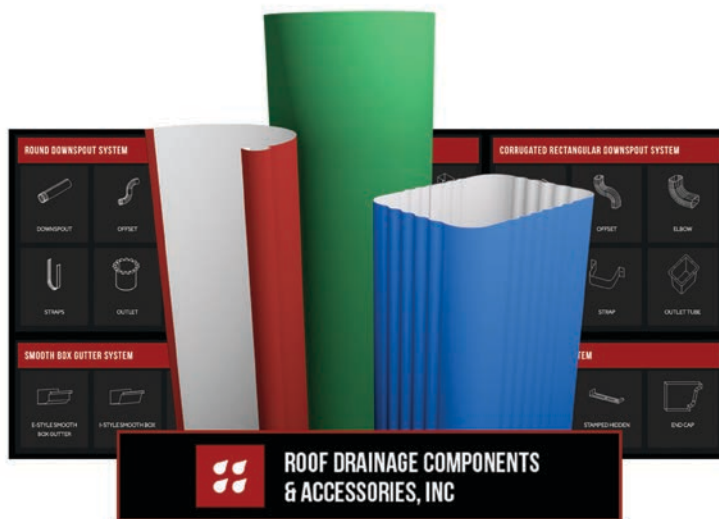
Note: S-5-U & S-5-U Mini compatible with all profiles except SMI 1.0" FF SnapLock and SMI 1.5" FF SnapLock.

COMMERCIAL ROOF DRAINAGE SYSTEMS

Commercial Roof Gutter & Downspout Products

Sheffield Metals offers a complete line of commercial roof drainage systems from Roof Drainage Accessories & Components, Inc. With more than 2,500 components and accessories, our systems are custom made per customer specifications in over 200 colors and 16 different material substrates.

We provide commercial roof drainage systems, as specified by architects, specifiers, pre-engineered building designers, general contractors and roofing consultants, and building owners.



TAKE OFF SERVICES

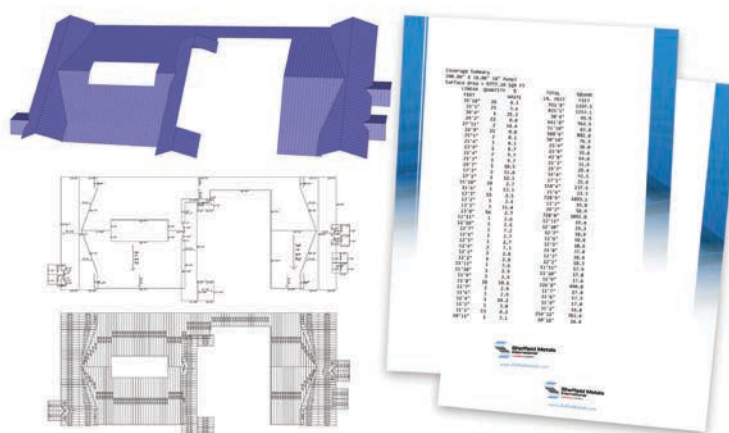
Sheffield Metals Provides Take Off Services

Sheffield Metals offers a high quality and professional take-off service to help to make sure you are submitting the most accurate numbers possible. **Typical turnaround is 24 to 48 hours.**

Simply provide us with:

- Panel width
- Digital blueprints / roof plans
- Roof pitch

Contact us for requirements if no digital drawings are available.



LOCATIONS

CLEVELAND: 800.283.5262

ATLANTA: 800.929.9359

DALLAS: 877.853.4904

DENVER: 877.375.1477

SAN JOSE: 408.916.3262



**Sheffield Metals
International**

A **MAZZELLA** COMPANY

www.sheffieldmetals.com

