TRANSMETAL SALES manufacturing corporation

1.25" Corrugated Install Guide 2.5" Corrugated Install Guide

The application and detail drawings in this Guide are strictly for illustration purposes and may not be applicable to all building designs or product installations. All projects should conform to applicable building codes for that particular area. It is recommended to follow all building regulations and standard industry practices.

Metal Sales Manufacturing Corporation is not responsible for the performance of the roof system if it is not installed in accordance with the suggested instructions referenced in this installation guide or in the product overview. (See Product Manual or Product Technical Literature). If there is a conflict between this guide and the actual erection drawings, the erection drawings are to take precedence.

Prior to ordering and installing materials, all dimensions should be verified by field measurements.

Metal Sales reserves the right to modify, without notice, any details, recommendations or suggestions. Any questions regarding proper installation of the roofing system should be directed to your Metal Sales representative, see pages 2 and 3.

Consult Metal Sales for any additional information not outlined in this Guide.

This manual is designed to be utilized as a guide when installing Corrugated Panel roofing systems. It is the responsibility of the erector to ensure the safe installation of this product system.

SAFETY

STUDY APPLICABLE OSHA AND OTHER SAFETY REQUIREMENTS BEFORE FOLLOWING THESE INSTRUCTIONS.

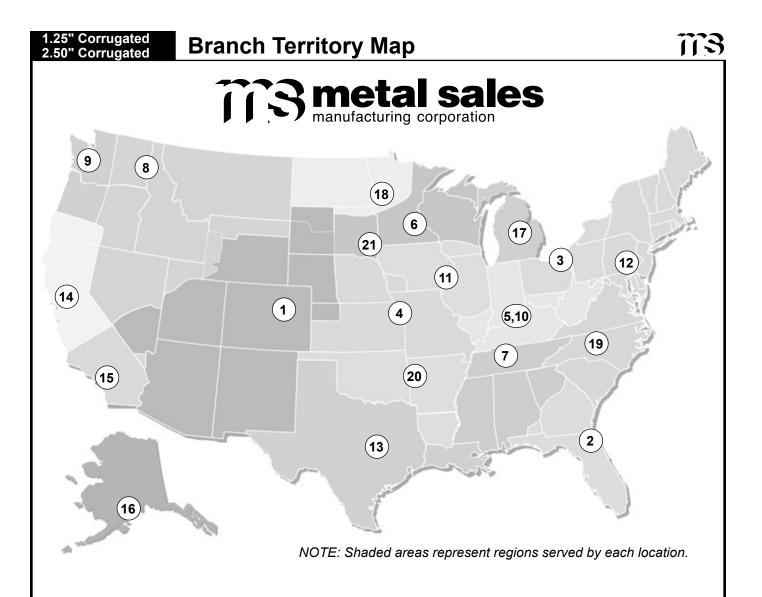
The installation of metal roof systems is a dangerous procedure and should be supervised by trained knowledgeable erectors. USE EXTREME CARE WHILE INSTALLING ROOF PANELS. It is not possible for Metal Sales to be aware of all the possible job site situations that could cause an unsafe condition to exist. The erector of the roof system is responsible for reading these instructions and determining the safest way to install the roof system.

These instructions are provided only as a guide to show a knowledgeable, trained erector the correct part placement one to another. If following any of the installation steps would endanger a worker, the erector should stop work and decide upon a corrective action.

Provide required safety railing, netting or safety lines for crew members working on the roof.

Do not use the roof panel as a walking platform. The roof panels will not withstand the weight of a person standing at the edge of the panel.

Do not stand on the roof panel until the panels have been attached.



For more than 50 years, Metal Sales Manufacturing Corporation has earned a reputation as the premier provider of innovative metal building components and accessories. We've backed this reputation with the industry's largest professional sales and services team. We offer a full line of exceptional quality metal roof and wall panels for agricultural, commercial, architectural, industrial, and residential projects of every shape and size, new construction or retro-fit.

Branch Locations

1.) DENVER BRANCH

7990 E. I-25 Frontage Road Longmont, CO 80504 303.702.5440 Phone 800.289.7663 Toll Free 800.289.1617 Toll Free Fax

2.) JACKSONVILLE BRANCH

7110 Stuart Avenue Jacksonville, FL 32254 904.783.3660 Phone 800.394.4419 Toll Free 904.783.9175 Fax 800.413.3292 Toll Free Fax

3.) JEFFERSON BRANCH

352 East Erie Street Jefferson, OH 44047 440.319.3779 Phone 800.321.5833 Toll Free 440.576.9242 Fax 800.233.5719 Toll Free Fax

4.) INDEPENDENCE BRANCH

1306 South Powell Road Independence, MO 64057 816.796.0900 Phone 800.747.0012 Toll Free 816.796.0906 Fax

5.) SELLERSBURG BRANCH

7800 State Road 60 Sellersburg, IN 47172 812.246.1866 Phone 800.999.7777 Toll Free 812.246.0893 Fax 800.477.9318 Toll Free Fax

6.) ROGERS BRANCH

22651 Industrial Boulevard Rogers, MN 55374 763.428.8080 Phone 800.328.9316 Toll Free 763.428.8525 Fax 800.938.9119 Toll Free Fax

7.) NASHVILLE BRANCH

4314 Hurricane Creek Boulevard Antioch, TN 37013 615.229.6570 Phone 800.251.8508 Toll Free 615.283.4283 Fax 800.419.4372 Toll Free Fax

8.) SPOKANE BRANCH

East 2727 Trent Avenue Spokane, WA 99202 509.536.6000 Phone 800.572.6565 Toll Free 509.534.4427 Fax

9.) SEATTLE BRANCH

20213 84th Avenue, South Kent, WA 98032 253.872.5750 Phone 800.431.3470 Toll Free (Outside WA) 800.742.7900 Toll Free (Inside WA) 253.872.2008 Fax

10.) NEW ALBANY BRANCH

999 Park Place New Albany, IN 47150 812.944.2733 Phone 812.944.1418 Fax

11.) ROCK ISLAND BRANCH

8111 West 29th Street Rock Island, IL 61201 309.787.1200 Phone 800.747.1206 Toll Free 309.787.1833 Fax

12.) DEER LAKE BRANCH

29 Pinedale Industrial Road Orwigsburg, PA 17961 570.366.2020 Phone 800.544.2577 Toll Free 570.366.1648 Fax 800.544.2574 Toll Free Fax

13.) TEMPLE BRANCH

3838 North General Bruce Drive Temple, TX 76501 254.791.6650 Phone 800.543.4415 Toll Free 254.791.6655 Fax 800.543.4473 Toll Free Fax

14.) WOODLAND BRANCH

1326 Paddock Place Woodland, CA 95776 530.668.5690 Phone 800.759.6019 Toll Free 530.668.0901 Fax

TECHNICAL SUPPORT

TECHNICAL SERVICES 545 South 3rd Street, Suite 200 Louisville, KY 40202

15.) FONTANA BRANCH

14213 Whittram Avenue Fontana, CA 92335 909.829.8618 Phone 800.782.7953 Toll Free 909.829.9083 Fax

16.) ANCHORAGE BRANCH

4637 Old Seward Highway Anchorage, AK 99503 907.646.7663 Phone 866.640.7663 Toll Free 907.646.7664 Fax

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19.) MOCKSVILLE BRANCH

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21.) SIOUX FALLS BRANCH

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502.855.4300 Phone

502.855.4290 Fax

800.406.7387 Toll Free

1.25" Corrugated TABLE O

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1.25" Corrugated **1.25" CORRUGATED PANEL INFORMATION** 2.50" Corrugated PANEL PROFILE 24" Coverage 12" -11/4" +5/8" Color Side ¹/4" SLOPE The minimum recommended slope for any 1.25" Corrugated roof panel is 3:12. SUBSTRATE The recommended substrates are $\frac{5}{8}$ plywood with a 30 pound felt moisture barrier or open framing. To avoid panel distortion, use a properly aligned and uniform substructure. COVERAGE 1.25" Corrugated is available in 24" width with a 1/2" rib height. LENGTH Lengths under 5'-0" are available with some cutting restrictions. Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping and erection. Please consult your Metal Sales branch for recommendations (see pages 2-3 for branch locations). **AVAILABILITY** 26 Gauge standard. (Optional 29 Ga. Contact your local Metal Sales branch for availability) APPLICATION Architectural and Residential panel PERFORMANCE TEST UL 790, UL 263, UL 2218 FASTENING SYSTEM Direct fastened (exposed) FASTENERS The fastener selection guide should be consulted for choosing proper fasteners for specific applications. Quantity and type of fastener must meet necessary loading and code requirements (see page 12). MATERIALS Steel grade 50, per ASTM A 792 FINISH *Acrylic Coated Galvalume* (ACG) / ASTM A 792 - AZ55 Pre-painted Galvalume, MS Colorfast45°/ ASTM A 792 - AZ50 **PVDF * Differential appearance of Acrylic Coated Galvalume roofing materials is not a cause for rejection. ** Meets both Kynar 500 and Hylar 5000 specifications.

1.25" SECTION PROPERTIES & FASTENING PATTERN $\hat{\Pi}$

ROOF & WALL FASTENING PATTERN

Ends and Field of Panel

Side Lap 1/4-14 x 7/8" Stitch Fastener (1'-0" o.c.) Panel Fastener Tape Sealant

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

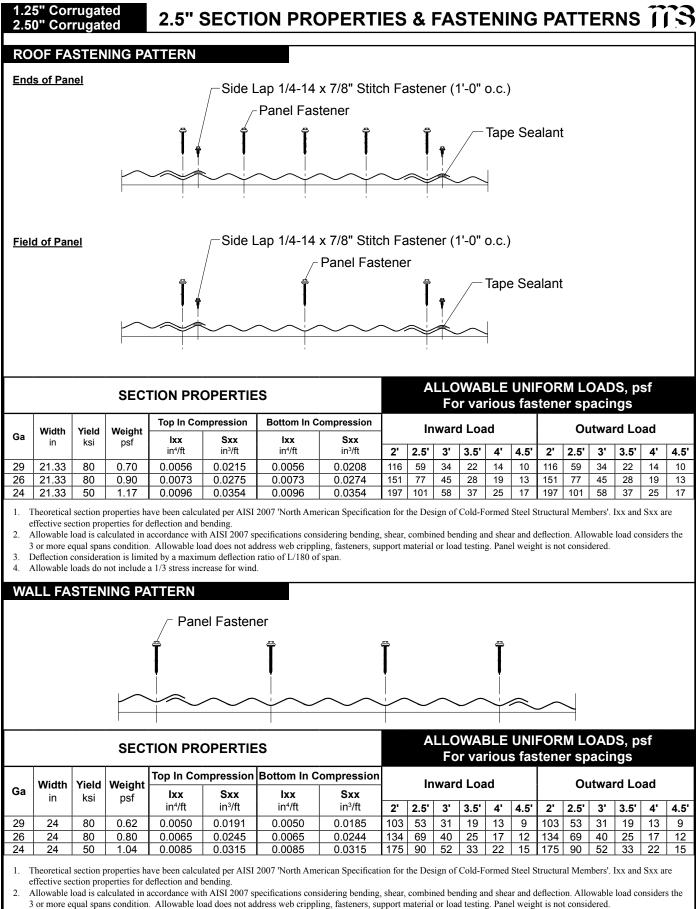
Ga	Width	Yield	Weight	Top In Compression		Bottom In Compression		Inward Load				Outv Lo	vard ad						
04	in	ksi	psf	in⁴/ft	in ³ /ft	in⁴/ft	in ³ /ft	1'	1.25'	1.5'	1.75'	2'	2.5'	1'	1.25'	1.5'	1.75'	2'	2.5'
29	24	50	0.64	0.0010	0.0070	0.0010	0.0067	165	84	49	31	21	11	165	84	49	31	21	11
26	24	50	0.81	0.0015	0.0087	0.0015	0.0085	196	126	73	46	31	16	202	127	73	46	31	16

1. Theoretical section properties have been calculated per AISI 2007 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.

 Allowable load is calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. Panel weight is not considered.
 Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

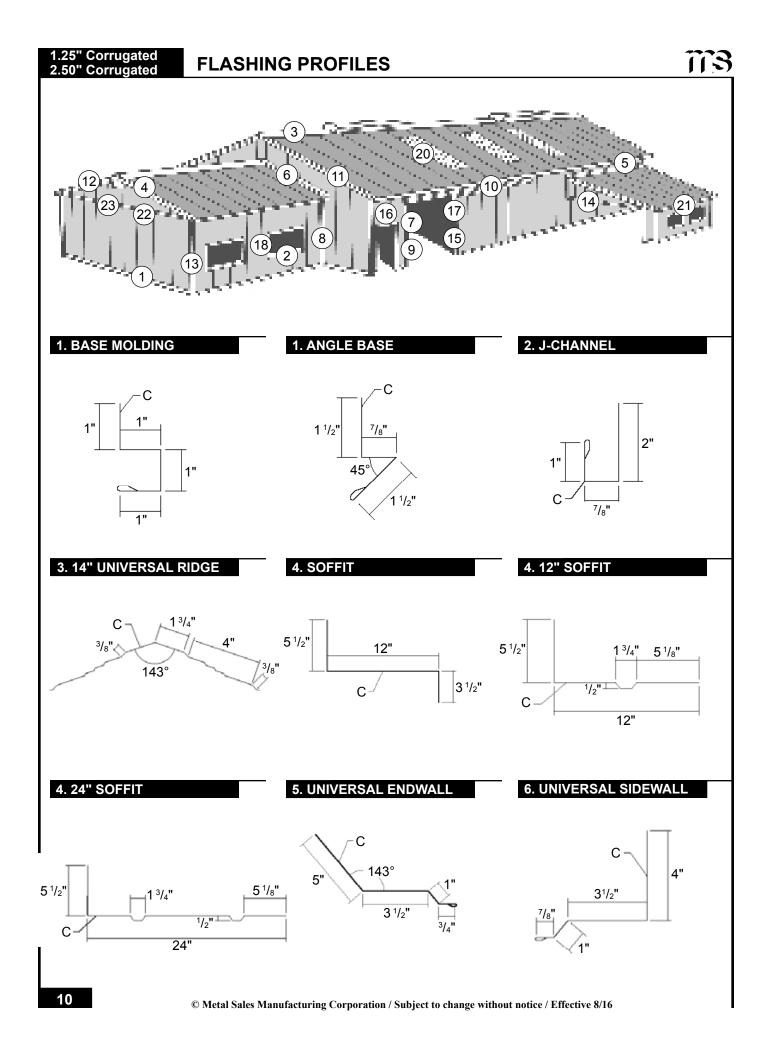
Denetion consideration is infined by a maximum denetion rat.
 Allowable loads do not include a 1/3 stress increase for wind.

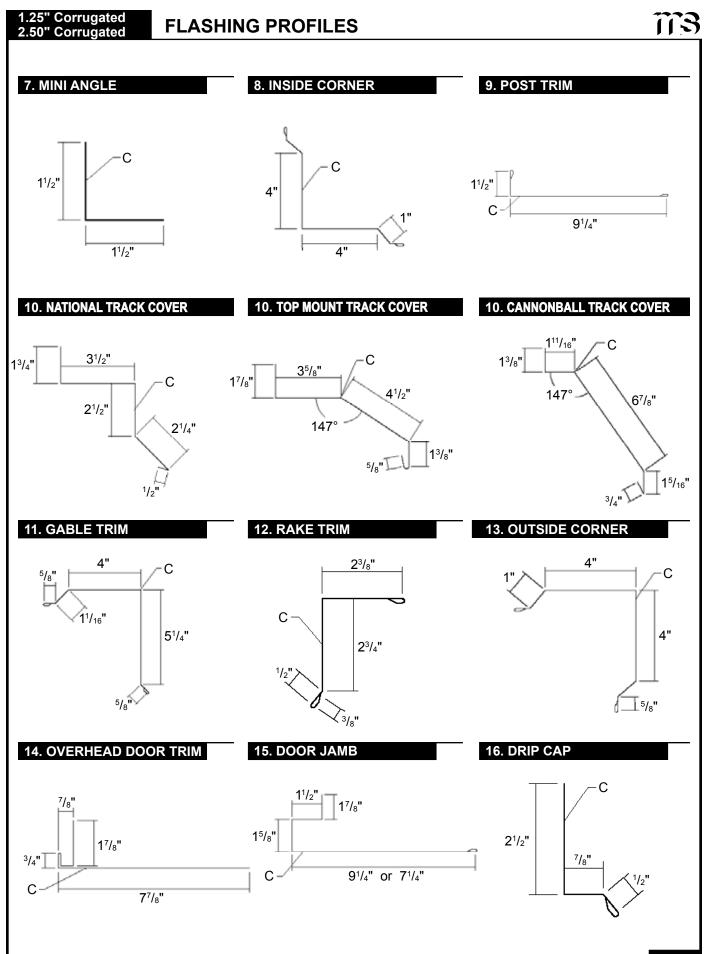
1.25" Corrugated 2.50" Corrugated	2.5" CORRUGATED	PANEL INFORMATION	115
PANEL PROFILE			
		/3" Roof Coverage	-
	3"-Color Side 2²/3"-		
_	-		
		Coverage	1
Color Side 11/3	3"22/3"		$\overset{1}{\frown}\overset{1}{\Box}$
SLOPE	[
	The minimum recommended slo	ope for any 2.5" Corrugated roof panel is 3:12.	
SUBSTRATE		re ⁵ /8" plywood with a 30 pound felt moisture barrier or open fr perly aligned and uniform substructure.	aming. To
COVERAGE	2.5" Corrugated roof coverage is 2.5" Corrugated wall coverage is	21-1/3" wide with a ¹ /2" rib height. 24" wide with a ¹ /2" rib height.	
LENGTH	45'-0". Longer panels require add	with some cutting restrictions. Maximum recommended pane litional consideration in packaging, shipping and erection. Plea mmendations (see pages 2-3 for branch locations).	
AVAILABILITY	26 gauge standard. (Optional 24	ga. and 29 ga. Contact your local Metal Sales branch for availa	ability)
APPLICATION	Architectural and Residential par	nel	
PERFORMANCE TEST	UL 790, UL 263, UL 2218, Texas W ICC Evaluation Report ESR-2385	Vindstorm Evaluation RC-159, 2010 FBC Approval FL14645.1,	
FASTENING SYSTEM	Direct fastened (exposed)		
FASTENERS		ould be consulted for choosing proper fasteners for specific ap ust meet necessary loading and code requirements (see page	
MATERIALS	Steel grade 50, per ASTM A 792		
FINISH	 *Acrylic Coated Galvalume[*] (<i>i</i>) Pre-painted Galvalume, MS C **PVDF 	ACG) / ASTM A 792 - AZ55 Colorfast45° / ASTM A 792 - AZ50	
	[*] Differential appearance of A ^{**} Meets both Kynar 500 and H	Acrylic Coated Galvalume roofing materials is not a cause for rejection. Hylar 5000 specifications.	

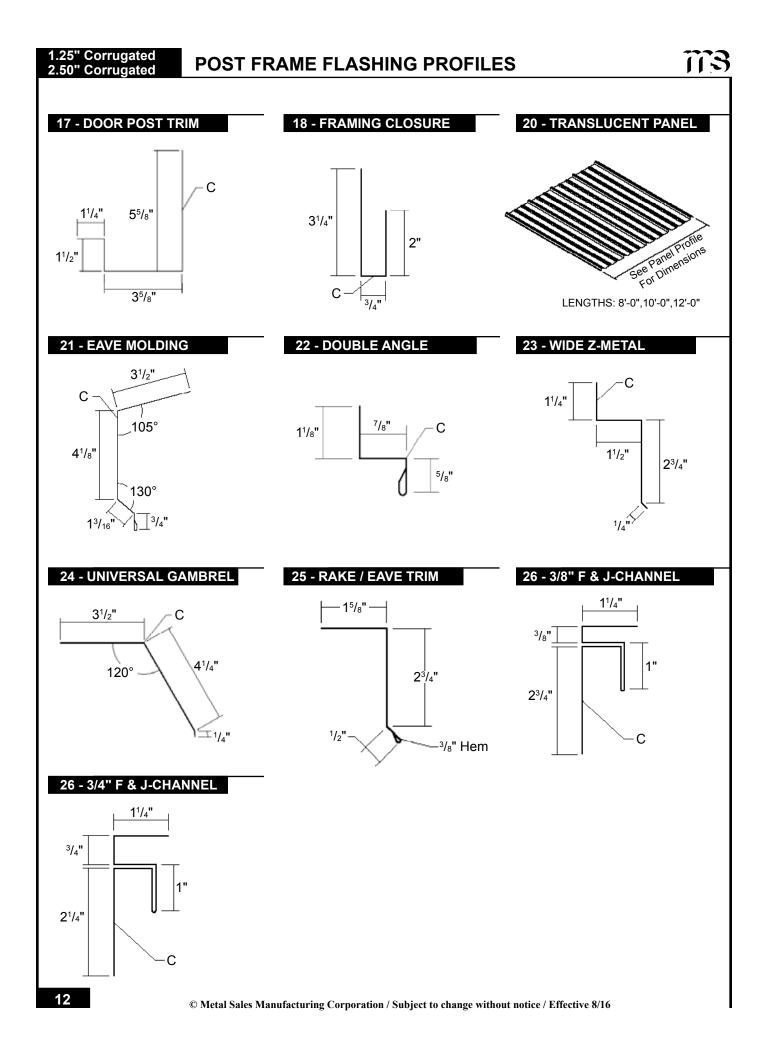


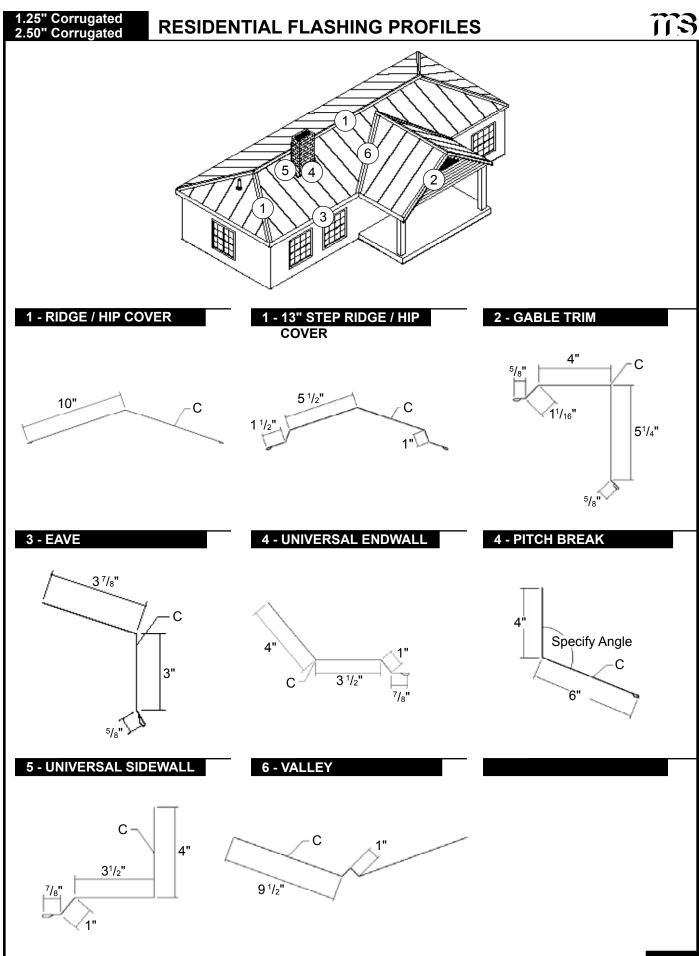
Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

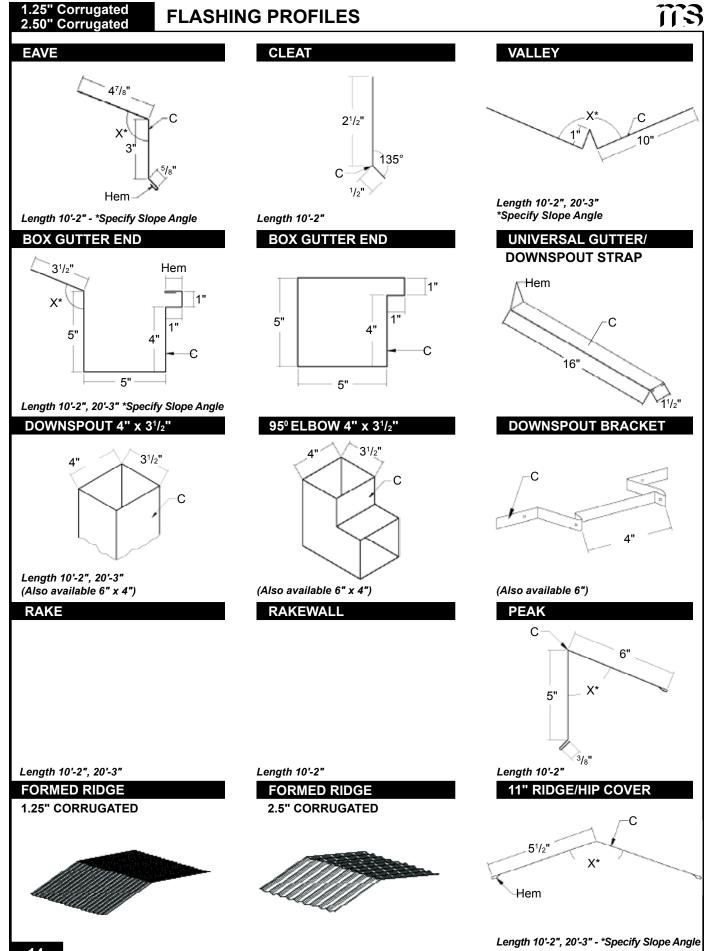
Allowable loads do not include a 1/3 stress increase for wind.

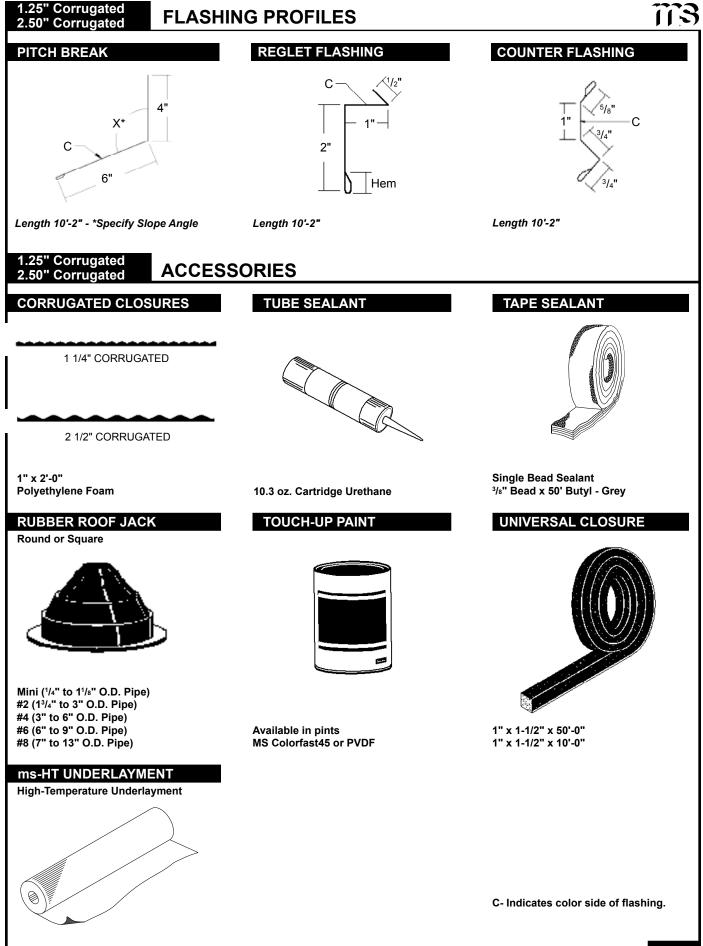












1.25" Corrugated 2.50" Corrugated FASTE	NER SELECT	ION GUIDE		TT3
POP RIVET	SIZE	TYPE	FINISH	APPLICATION
	1/8" X 3/16"	A	Unpainted	Flashing to Panel, Flashing to Flashing
	1/8 " X 3/16 "	A	Painted	Flashing to Panel, Flashing to Flashing
PANCAKE HEAD WOODSCREW	SIZE	TYPE	FINISH	APPLICATION
	#10-12 x 1"	A	Plated	Panel or Flashing to wood substructure
WOODSCREW	SIZE	ТҮРЕ	FINISH	APPLICATION
	#10-14 x 1" #10-14 x 1½" #10-14 x 2"	A A A	Painted Painted Painted	Panel or Flashing to wood substructure
STITCH SCREW	SIZE	TYPE	FINISH	APPLICATION
	¹ /4 - 14 x ⁷ /8"	Stitch	Painted	Flashing to Panel, Flashing to Flashing, Panel Sidelap

FASTENER INSTALLATION TECHNIQUE

Recommended Tool Type - Use depth locating nose or adjustable clutch on screw gun to prevent overdrilling and strip out. Do not use impact tools or runners.

Seating the washer - Apply sufficient torque to seat the washer - do not overdrive the fastener.

	CORRECT	TOO LOOSE	TOO TIGHT
	Sealing material slightly vis-	Sealing material is not visible;	Metal washer deformed;
	ible at edge of metal washer.	not enough compression to	sealing material pressed
	Assembly is watertight.	seal properly.	beyond washer edge.
WOODSCREW			

To prevent wobbling - Make sure fastener head is completely engaged in the socket. If the head does not go all the way in the socket - tap the magnet deeper into the socket to allow full head engagement. Metal chips will build up from drilling and should be removed from time to time.

Protect drill point - Push only hard enough on the screw gun to engage clutch. This prevents excess friction and burn out of the drill point. Correct pressure will allow screw to drill and tap without binding.

Drilling through sheet and insulation - Ease up on pressure when drilling through insulation to avoid striking the purlin or girt with the point - apply more pressure after drill point contacts purlin or girt.

Drilling through purlin overlaps - Drilling through lapped purlins requires extra care. Excessive voids between purlins sometimes damages drill points and two self-drillers might be necessary to complete the operation. It is sometimes advantageous to predrill.

GENERAL

Metal Sales' panels are designed to be installed over open framing and/or directly over a wood substrate (minimum 5/8") with 30# felt moisture barrier (or an Ice and Water Shield when required by Local Building Codes).

Always check with local building codes prior to all installations for any additional requirements that may be specific to your area.

Galvanized and Galvalume panels should not be in contact with, or subject to, water runoff from copper, lead, or uncoated steel materials.

Condensate water from air conditioning units typically contains dissolved copper. This condensate should be discharged through a plastic pipe extended beyond the edge of the roof.

CONDITION OF SUBSTRUCTURE

The roof should be inspected for any trapped moisture or structural damage such as bowing or sagging rafters and warped or loose roof purlins or solid decking. These areas should be repaired prior to installing new metal panels.

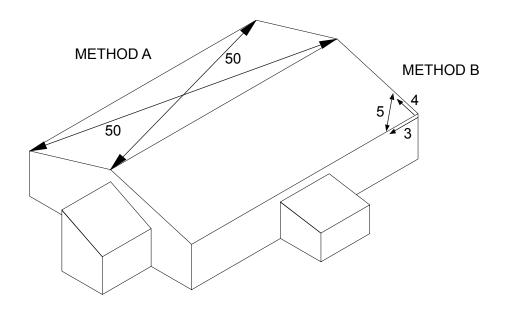
Prior to installation, make sure there are no nails or fasteners protruding from the roof framing or wood substrate which could damage the panels and impede the installation process.

When installed, panel distortion may occur if not applied over properly aligned and uniform substructure.

Whether installing over new or existing roof, the installer should check the roof deck for squareness before installing panels. Several methods can be used to verify squareness of the structure for proper installation of the panels.

METHOD "A" - One method for checking the roof for squareness is to measure diagonally across one slope of the roof from similar points at the ridge and eave and obtain the same dimension.

METHOD "B" - The 3-4-5 triangle system may also be used. To use this system, measure a point from the corner along the edge of the roof at a module of three (3). Measure a point from the same corner along another edge at a module of four (4). By measuring diagonally between the two points established, the dimension should be exactly a module of five (5) to have a square corner. Multiple uses of this system may be required to determine building squareness. If the endwall cannot be made square, the roof system cannot be installed as shown in these instructions.



RECEIVING MATERIAL

It is the responsibility of the installer to unload material from the delivery truck. The installer shall be responsible for providing suitable equipment for unloading of material from the delivery.

After receiving material, check the condition of the material, and review the shipment against the shipping list to ensure all materials are accounted for. If damages or shortages are discovered, it should be noted on the Bill of Lading at the time of delivery. A claim should be made against the carrier as soon as possible. Metal Sales is not responsible for any damages or shortages unless they are documented in writing and presented to Metal Sales within 48 hours.

GENERAL HANDLING

Each bundle should be handled carefully to avoid being damaged. Care should be taken to prevent bending of the panel or abrasion to finish. Whenever possible, the bundle should remain crated until it is located in its place of storage. If bundles must be opened, we recommend you re-crate them before lifting. To avoid damage please lift the bundle at its center of gravity.

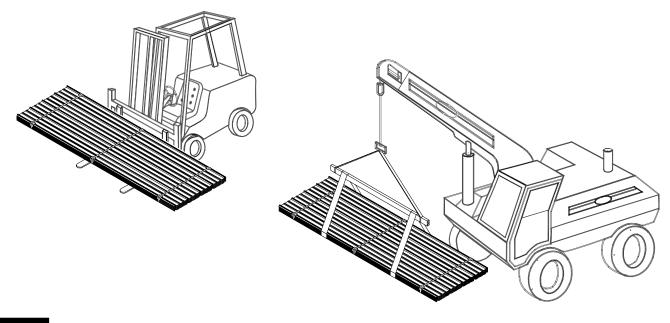
CAUTION

Improper loading and unloading of bundles and crates may result in bodily harm and/or material damage. Metal Sales is not responsible for bodily injuries and/or material damages resulting from improper loading and unloading.

MECHANICAL HANDLING

Forklift - A forklift may be used for panels up to 20'-0" long. Please make sure the forks are at their maximum separation. Do not transport open bundles. When transporting bundles across rough terrain, or over a longer distance, some means of supporting the panel load must be used.

Crane - A crane should be used when lifting panels with lengths greater than 20'-0". Please be sure to utilize a spreader bar to ensure the even distribution of the weight to the pick up points. As a rule when lifting panels, no more than 1/3 of the length of the panel should be left unsupported. Never use wire rope because this will damage the panels.

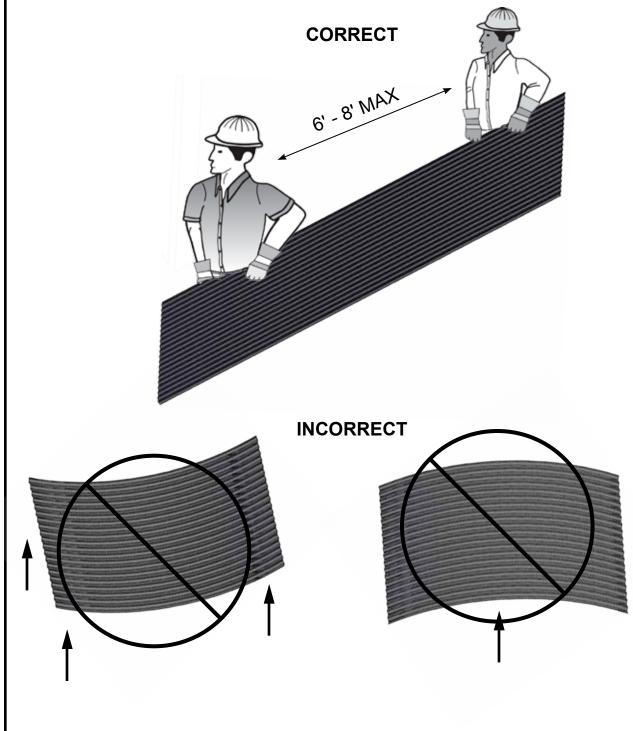


MANUAL HANDLING

When handling painted steel, care should be taken to prevent scratching of material. Clean gloves should be worn at all times to prevent a reaction with salts found on bare skin. Installers should wear rubber sole shoes to keep from scuffing material while walking on the roof.

Handling of individual panels should be done carefully and properly to avoid bending or damaging. Panels should be carried by grasping the edge of the panel so that the panel is vertical to the ground. The panel should not be carried horizontal to the ground as this could cause the panel to buckle or bend in the center.

Normally, individual panels can be handled by people placed every 6'-0" to 8'-0" along the length of the panel.

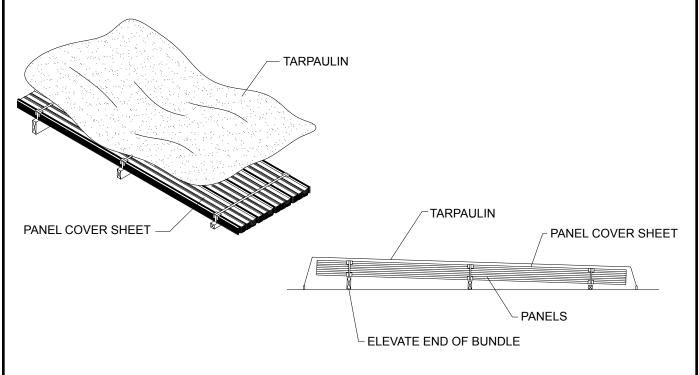


STORAGE

GENERAL

Please inspect panels for moisture accumulation. If moisture has formed, the panels should be unbundled, wiped dry, and allowed to dry completely. Once dry, carefully re-stack the panels and loosely recover allowing for ample air circulation.

Bundled sheets should be stored high enough off of the ground to allow for air circulation and prevent contact with accumulating water. Elevate one end of the bundle to allow any moisture to run off the panels. Metal Sales recommends covering the bundle with a tarpaulin. Do not use tight fitting plastic-type tarpaulins as panel bundle covers. While they may provide protection from heavy downpours, they can also retard necessary ventilation and trap heat and moisture that may accelerate metal corrosion. If panels are to be stored in possible bad weather, we suggest they be stored inside. Extended storage of panels in a bundle is not recommended. **Under no circumstances should the panels be stored near or come in contact with salt water, corrosive chemicals, ash, or fumes generated or released inside the building or nearby plants, foundries, plating works, kilns, fertilizer, and wet or green lumber.**



FOOT TRAFFIC

Care of metal panels and flashings must be exercised throughout erection. Foot traffic can cause distortion of panel and damage to finish. Traffic over the installed system must be kept to an absolute minimum. Installers should wear rubber sole shoes to keep from scuffing material while walking on the roof.

When walking on the roof panels is unavoidable, walk only in the flats of the panel. Walking on the ribs can cause damage to the panels.

REQUIRED TOOLS

Standard required tools for field installation include:

- Screw Guns
- Magnetic Bits
- Metal Nibbler or Shear
- Tin Snips (Right, Left and Center)
- Tape Measure

- Hammer
- Chalk Line
- Drill with bits
- Pop Rivet Tool
- Safety Goggles

- Gloves
- Ear Plugs
- Fall Protection

FIELD CUTTING

Tin snips or a "nibbler" type electric tool are recommended for field cutting metal panels. Cutting the steel generates slivers or metal chips. These slivers and metal chips must be immediately removed from the panels because they will damage the finish and shorten the life of the product.

One method of preventing this problem is to flip the panels over when cutting. This allows the slivers and metal chips to be brushed from the back side and avoids damaging the paint on the top side of the panels.

When cutting metal panels and flashings, goggles must be worn for eye protection.

CAUTION

All product surfaces should be free of debris at all times. Installed surfaces should be wiped clean at the end of each work period. Never cut panels over metal surfaces. Metal shavings will rust on the surface, voiding the warranty.

TOUCH-UP PAINT

All painted panels and flashings have a factory applied baked on finish. Handling and installing panels may result in some small scratches or nicks to the paint finish. Touch-up paint is available in matching colors from Metal Sales. It is recommended that a small brush be used to apply touch-up paint to those areas that are in need of repair. Touch-up paint does not have the superior chalk and fade resistance of the factory applied paint finish and will normally discolor at an accelerated rate. Aerosol paint should not be used because of the over-spray that may occur.



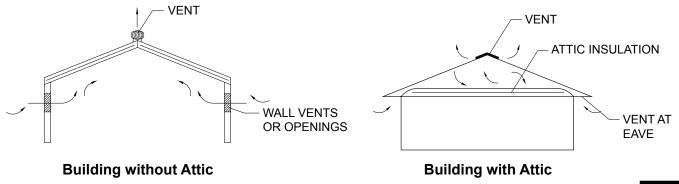
TOUCH-UP PAINT

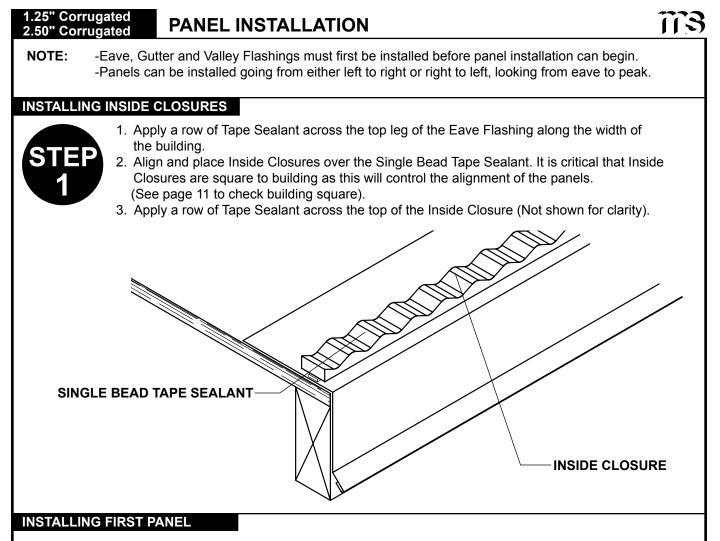
VENTILATION

Proper design and installation of vapor barriers and ventilation systems are important to prevent condensation and the resulting problems of moisture damage and loss of insulation efficiency.

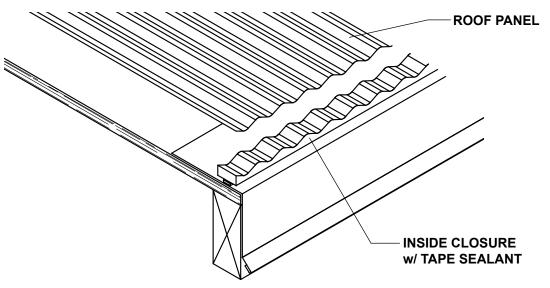
Condensation occurs when moisture laden air comes in contact with a surface temperature equal to or below the dew point of the air. This phenomenon creates problems that are not unique with metal buildings; these problems are common to all types of construction.

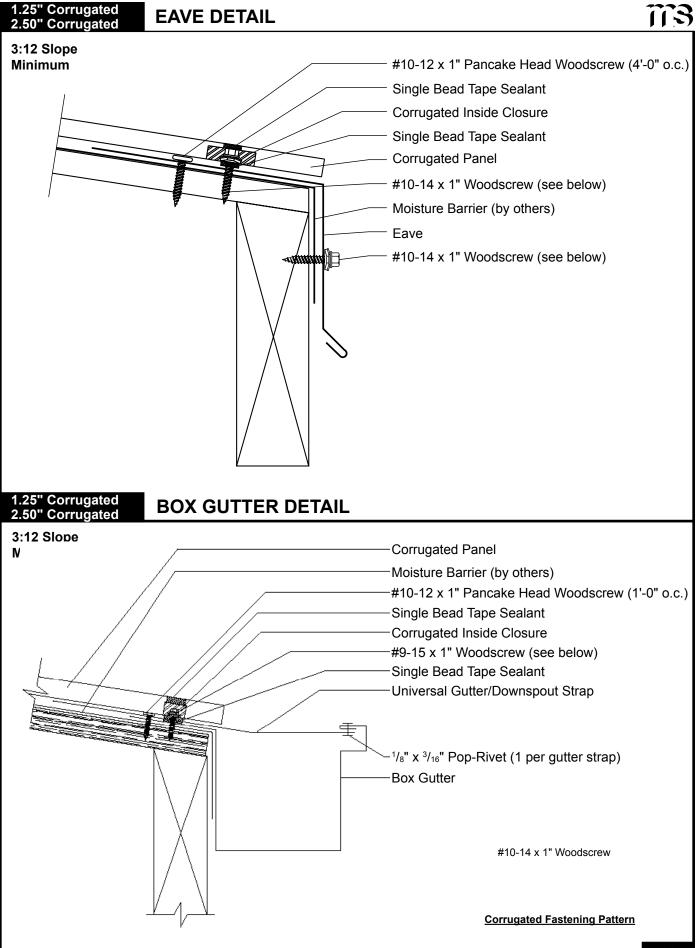
The underside of the metal roof on a typical metal building (no attic) should be protected from condensation by insulating with a faced insulation. This should reduce the potential of condensation forming on the underside of the panels. On buildings that have an attic space or are being retrofitted with a metal roofing system, vents should be placed at both the eave and peak of the roof in order to prevent a buildup of moisture (humidity) in the attic space.

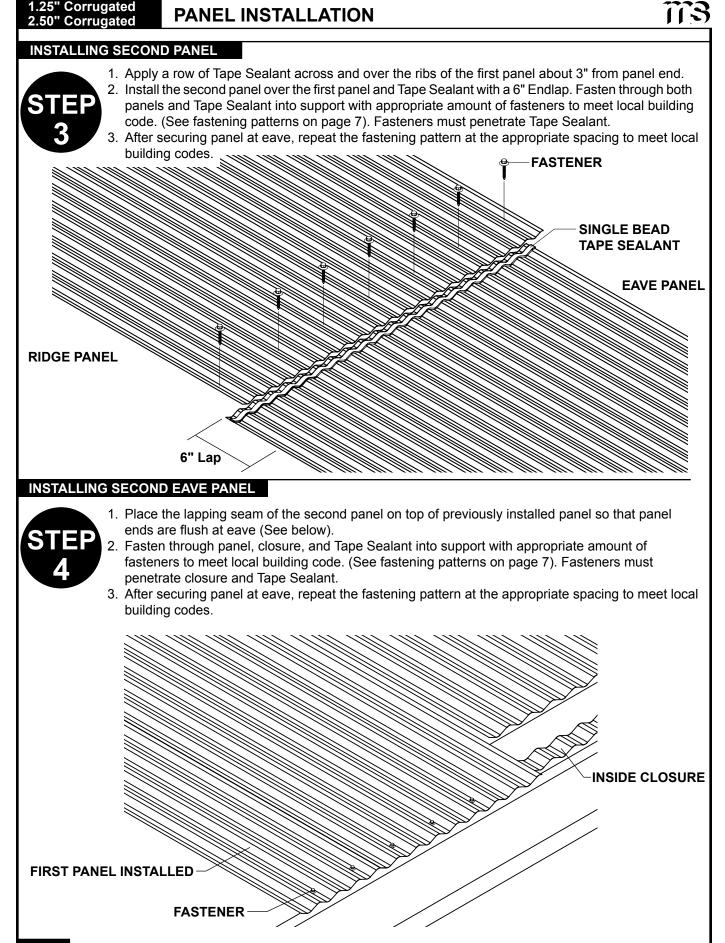


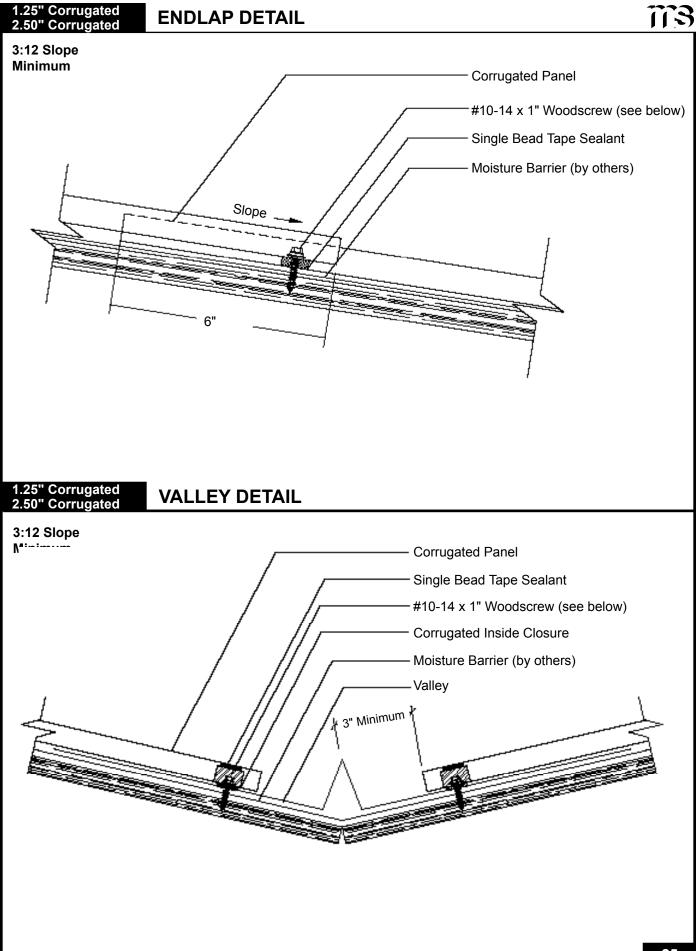


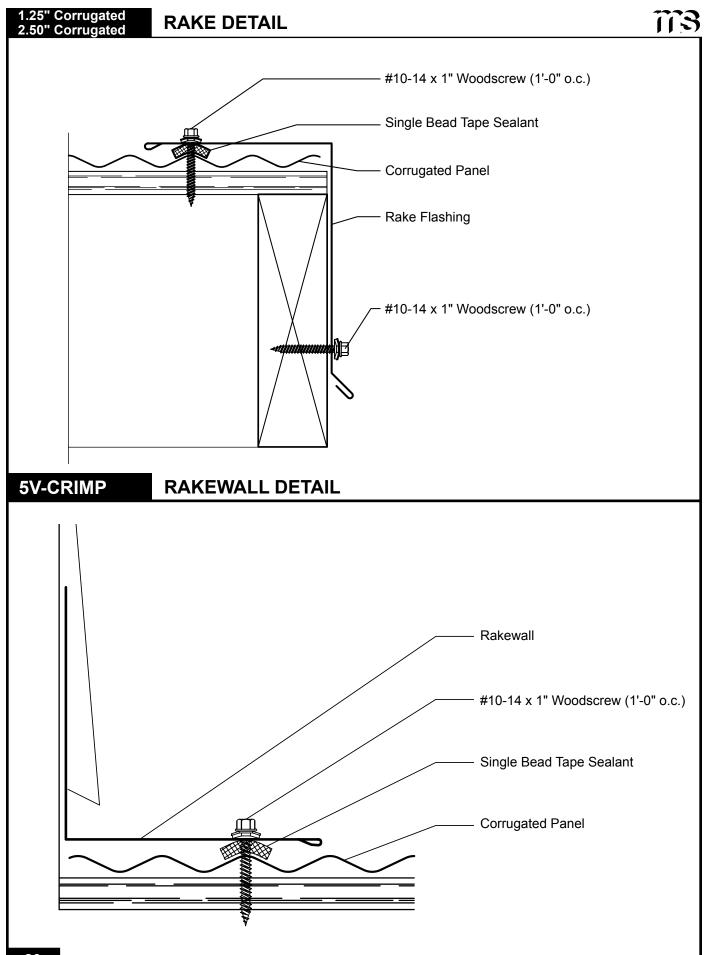
- STEP 2
- 1. Install the first panel over the Inside Closure to allow for desired overhang. Make sure the panel is square to the eave and rake.
- 2. Fasten through panel, closure, and sealants into decking with appropriate amount of fasteners to meet local building code. (See fastening patterns on page 7). Fasteners must penetrate closure and Tape Sealant.
- 3. After securing panel at eave, repeat the fastening pattern at the appropriate spacing to meet local building codes.

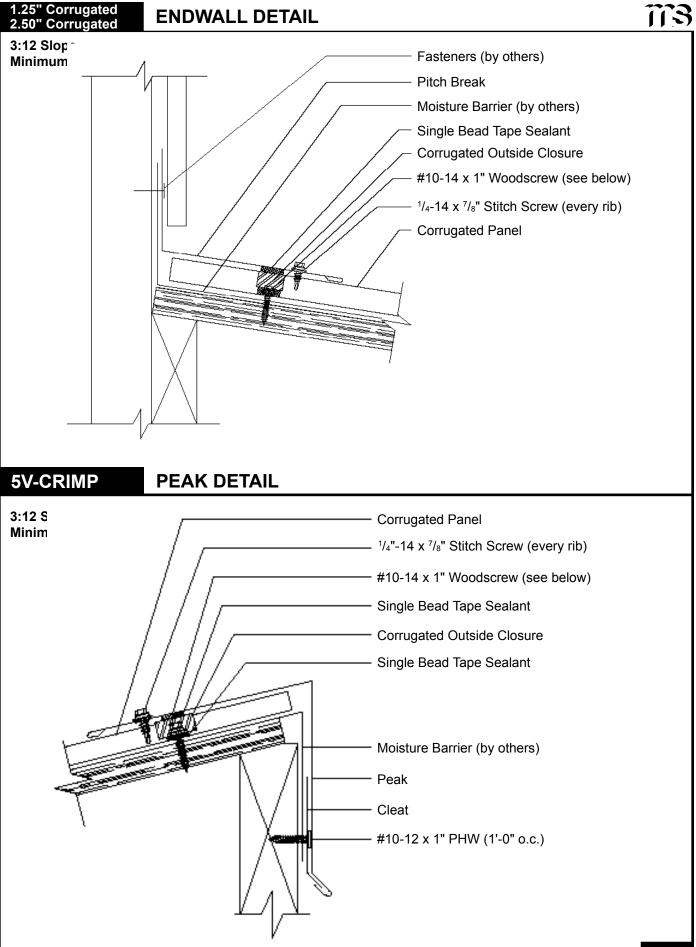




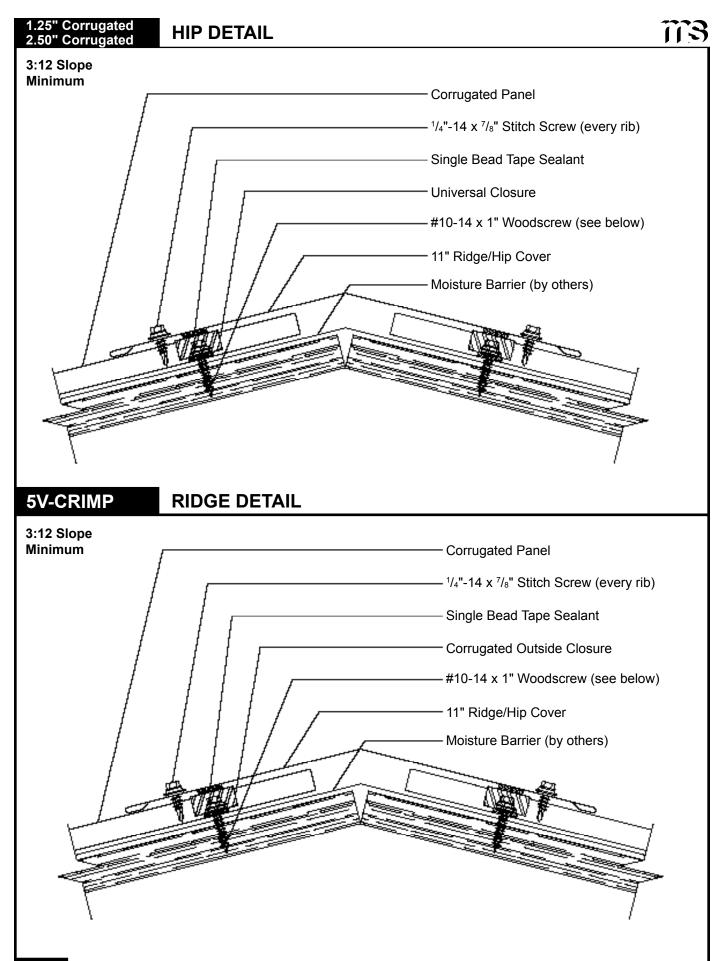


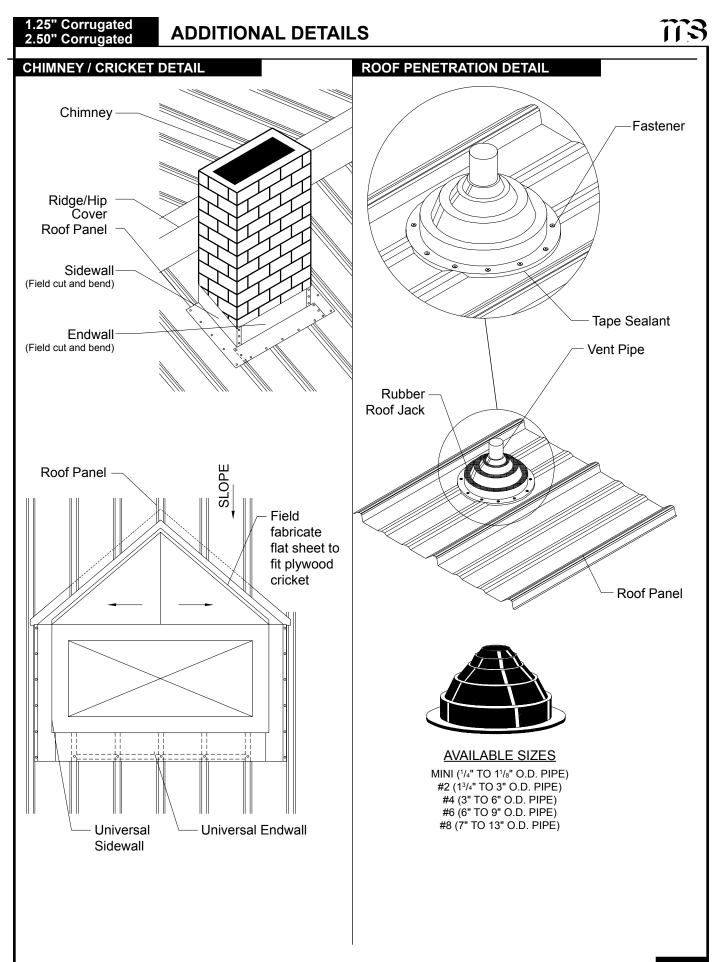






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Though factory applied pre-painted finishes are very durable and will last many years, eventually it may be desirable to thoroughly clean or repaint them.

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Dirt pickup may cause apparent discoloration of the paint when it has been exposed in some dirt-laden environments for long periods of time. In areas of strong sunlight, slight chalking may cause some change in appearance. A good cleaning will often restore the appearance of these buildings and render repainting unnecessary. An occasional light cleaning will help maintain a good appearance.

In many cases, simply washing the building with plain water using a hose or pressure sprayer will be adequate. In areas where heavy dirt deposits dull the surface, a cloth or soft bristle brush and solution of water and detergent (¹/₃ cup of laundry detergent per gallon of water for example) may be used. This should be followed by an adequate rinse of water. Do not use wire brushes, abrasives, or cleaning tools which will damage the coating surface.

Mildew may occur in areas subject to high humidity but is not normally a problem due to the high inherent mildew resistance of the baked finish that is used. To remove mildew along with the dirt, the following solution is recommended.

¹/₃ cup detergent (Tide[®] or equivalent)
²/₃ cup trisodium phosphate (Solex[®] or equivalent)
1 quart of 5% sodium hypochlorite solution (Clorox[®] or equivalent)
3 quarts of water

Strong solvents and abrasive type cleaners should be avoided. Most organic solvents are flammable and toxic and must be handled accordingly. When using a solvent, consult maintenance professionals and label instructions for proper handling and disposal of washings. If required, a mild solvent such as mineral spirits can be used to remove caulking compounds, oil, grease, tars, wax, and similar substances. Use a cloth dampened with mineral spirits and apply only to areas which are contaminated. Follow up the use of this mild solvent with detergent cleaning and rinsing.



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