





SNAP-LOC 24 IMPORTANT INFORMATION

THE APPLICATION AND DETAIL DRAWINGS IN THIS MANUAL ARE STRICTLY FOR ILLUSTRATION PURPOSES AND MAY NOT BE APPLICABLE TO ALL BUILDING DESIGNS OR PRODUCT INSTALLA-TIONS. ALL PROJECTS SHOULD CONFORM TO APPLICABLE BUILDING CODES FOR THAT PARTICU-LAR AREA. IT IS RECOMMENDED TO FOLLOW ALL BUILDING REGULATIONS AND STANDARD INDUSTRY PRACTICES.

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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, RECOMMENDA-TIONS OR SUGGESTIONS. ANY QUESTIONS YOU MAY HAVE REGARDING PROPER INSTALLATION OF THE SNAP-LOC 24 ROOFING SYSTEM SHOULD BE DIRECTED TO METAL SALES.

CONSULT METAL SALES FOR ANY ADDITIONAL INFORMATION NOT OUTLINED IN THIS MANUAL.

THIS MANUAL IS DESIGNED TO BE UTILIZED AS A GUIDE WHEN INSTALLING THE SNAP-LOC 24 ROOFING SYSTEM. IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THE SAFE INSTALLA-TION 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.

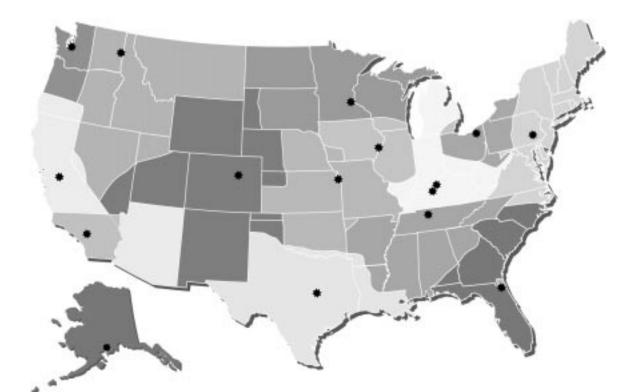
These instructions are provided only as a guide to show a knowledgeable, trained erector the correct parts placement one to another. If following any of the installation steps would endanger a worker, the erector should stop work and decide upon a corrective action.

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 an unseamed panel. Provide walking platforms for crew members required to walk on the roof before it is seamed.

Do not stand on the roof panel at the ends until the panel has been attached with fasteners.

SNAP-LOC 24 METAL SALES' LOCATIONS





*METAL SALES LOCATIONS

Note: Shaded areas represent regions served by each location. Arizona is served by Fontana and Longmont branches.

CORPORATE OFFICE SELLERSBURG, INDIANA

For over 30 years, Metal Sales Manufacturing Corporation has been producing steel panels and components for the building industry. Twelve sales and manufacturing locations provide convenient access to a wide range of roof, wall and fascia panel systems with secondary structural components. Applications include commercial, industrial and architectural buildings ranging from new construction to retrofit.

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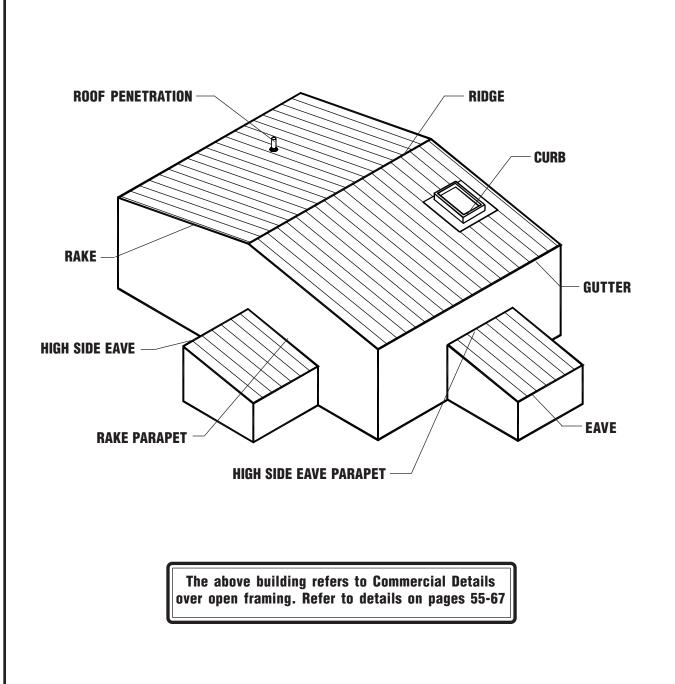
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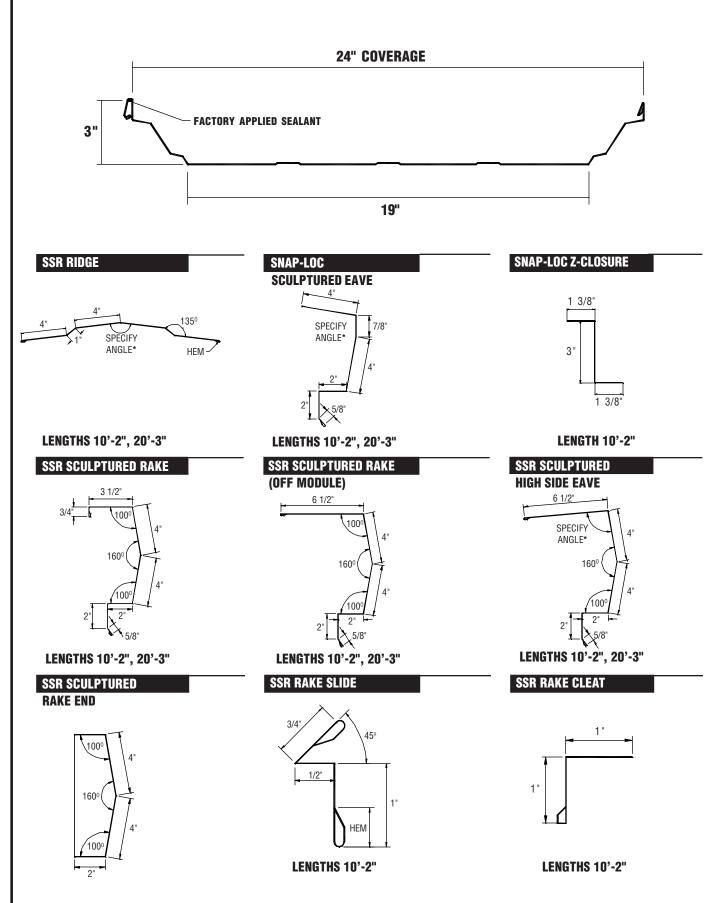
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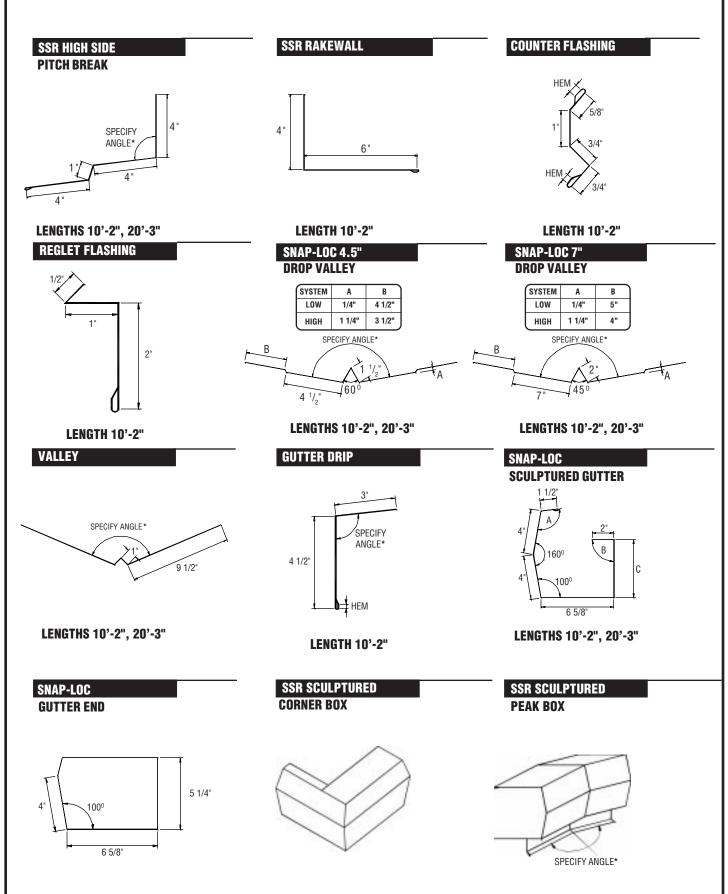
SNAP-LOC 24 FLASHING OVERVIEW



SNAP-LOC 24 FLASHING AND ACCESSORY PROFILES

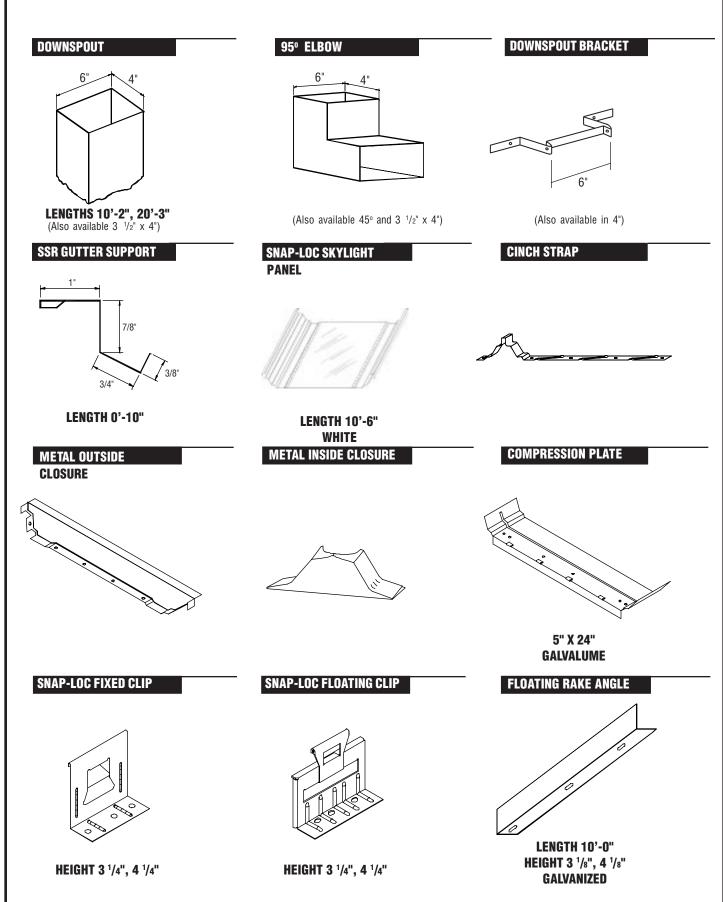


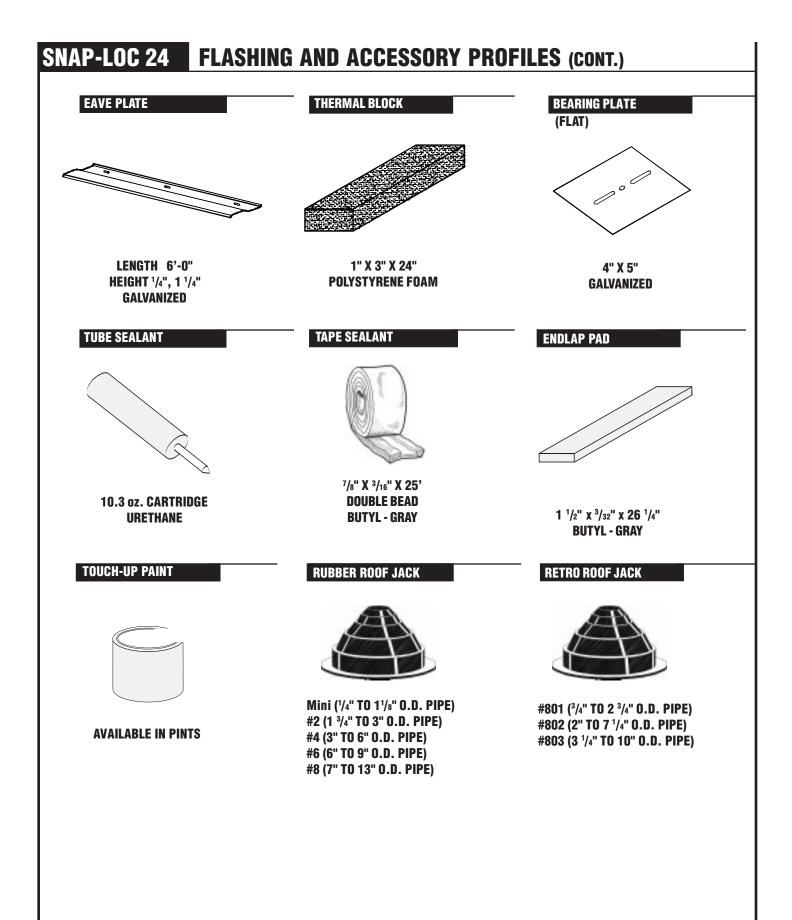
SNAP-LOC 24 FLASHING AND ACCESSORY PROFILES (CONT.)



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SNAP-LOC 24 FLASHING AND ACCESSORY PROFILES (CONT.)





SNAP-LOC 24 FASTENER SELECTION GUIDE

POP RIVET	SIZE	TYPE	FINISH	APPLICATION
0	¹ /8" X ³ /16"	Stainless Steel	Unpainted	Flashing to Panel or Flashing
•	¹ /8" X ³ /16"	Stainless Steel	Painted	Flashing to Panel or Flashing
WOODSCREW	SIZE	ТҮРЕ	FINISH	APPLICATION
<i>л</i> _	10 x 1"	А	Painted	Panel or Flashing
	10 x 1 ¹ /2"	А	Painted	to wood substrate
	10 x 2"	А	Painted	
	10 x 1"	А	XL*	Panel or Flashing
	10 x 1 ¹ /2"	А	XL*	to wood substrate
WOODSCREW XL	10 x 2"	А	XL*	
~	10 x 1"	А	XL (Painted)**	Panel or Flashing
	10 x 1 ¹ /2"	А	XL (Painted) **	to wood substrate
	10 x 2"	А	XL (Painted)**	

**Painted XL Fasteners are recommended for use with painted panels and accessories.

SELF DRILLER	SIZE	TYPE	FINISH	APPLICATION
	12-14 x 1 ¹ /4" 12-14 x 1 ¹ /2" 12-14 x 2"	Driller Driller Driller	Painted Painted Painted	Panel or Flashing to metal substructure
SELF DRILLER XL	12-14 x 1 ¹ /4" 12-14 x 1 ¹ /2" 12-14 x 2" 1/4-14 x 1 ¹ /4"	Driller Driller Driller Driller	XL* XL* XL* XL*	Panel or Flashing to metal substructure Endlap Condition
	12-14 x 1 ¹ /4" 12-14 x 1 ¹ /2" 12-14 x 2" 1/4-14 x 1 ¹ /4"	Driller Driller Driller Driller	XL (Painted)** XL (Painted)** XL (Painted)** XL (Painted)**	Panel or Flashing to metal substructure Endlap Condition

*XL Fasteners are recommended for use with bare galvalume panels and accessories. **Painted XL Fasteners are recommended for use with painted panels and accessories.

SELF DRILLER N/W	SIZE	ТҮРЕ	FINISH	APPLICATION
	¹ /4-14 x 1 ¹ /2"	Driller	Plated	Panel Clips to metal substructure/ Accessories
	12-24 x 1 ¹ /4"	Driller (#4 point minimum)	Plated	Panel Clips to bar joists

STITCH	SIZE	ТҮРЕ	FINISH	APPLICATION
	1/4-14 x ⁷ /8"	Stitch	Painted	Flashing to Panel or Flashing
STITCH XL	¹ /4-14 x ⁷ /8" ¹ /4-14 x ⁷ /8"	Stitch Stitch	XL* XL(Painted)**	Flashing to Panel or Flashing
		mended for use with bare o re recommended for use w		
SHOULDER SELF DRILLER	SIZE	ТҮРЕ	FINISH	APPLICATION
	12-14 x 1 ¹ /4"	Driller	Plated	For use with Floating Rake Angle to meta substructure
DEKFAST	SIZE	ТҮРЕ	FINISH	APPLICATION
	14 x 1 ⁵ /8"	Driller	Black	For use on attachmen Panel Clip to wood fran
	15 x 4"	Driller	Black	Panel Clip/Bearing Plat
Vr	15 x 5"	Driller	Black	metal deck and rigid bo insulation assembly
	15 x 6"	Driller	Black	
PANCAKE HEAD WOODSCREW	SIZE	ТҮРЕ	FINISH	APPLICATION
	10 x 1"	A	Plated	For use with Panel Clip attaching to plywood deck

SNAP-LOC 24 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 Sealing material slightly visible at edge of metal washer. Assembly is watertight.	TOO LOOSE Sealing material is not visible; not enough compression to seal properly.	TOO TIGHT Metal washer deformed; sealing material pressed beyond washer edge.
SELF DRILLER			
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.

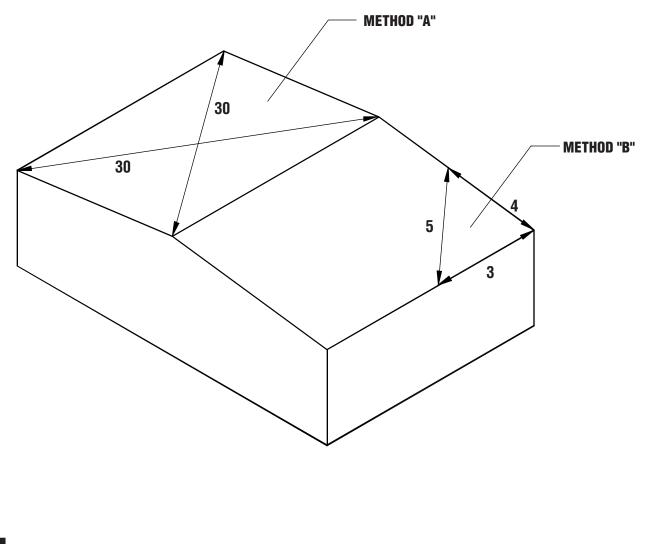
CONDITION OF SUBSTRUCTURE

Whether over solid substrate or open structural framing, panel distortion may occur if not applied over properly aligned and uniform substructure.

The installer should check the roof deck for squareness before installing Snap-Loc 24 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). Then 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.



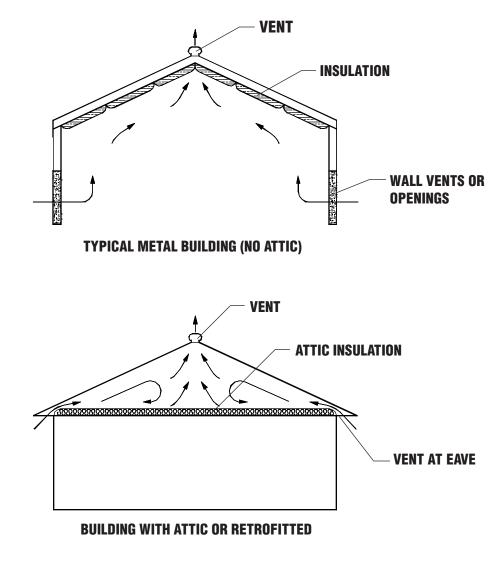
VENTILATION

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.

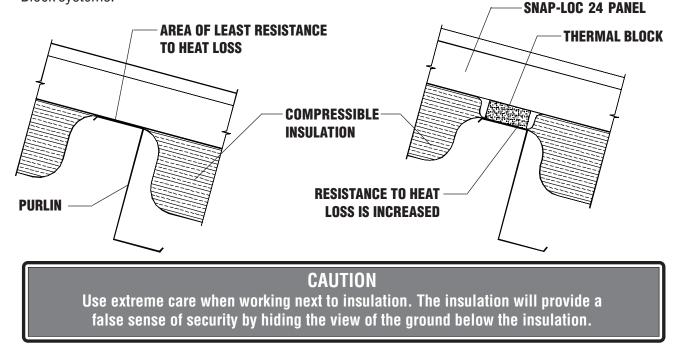


INSULATION

In most cases insulation is installed directly under the roof panels. Insulation is recommended on all applications to act as a sound barrier, prevent condensation, and increase insulating value of a roof system. **Roof panels installed over open framing without insulation will cause excessive roof noise.** It is recommended that either urethane thermal blocks or 1 ¹/₂" blanket insulation be used as illustrated to minimize noise potential.

Many different types of insulation can be used with the metal roof panels. Blanket, batt, rigid, and reflective insulation are just a few. Please contact your insulation supplier for specific recommendations on type of insulation, vapor barriers, and installation procedures.

When applying a compressable type of insulation over open framing members, rigid thermal blocks can be used to help eliminate heat lost at purlin locations. See chart on page 17 for available Thermal Block systems.



SYSTEM EXPANSION / CONTRACTION

Steel roofing panels are subject to dimensional changes after installation due to exposure to varying temperatures. The greatest influence is solar energy. Steel roofing absorbs various amounts of heat depending upon color, finish, angle of exposure, and time of exposure.

The relationship of ambient temperature to building structural temperature must be considered when designing a Snap-Loc 24 roof system. The floating clips for the Snap-Loc 24 panels are designed for expansion and contraction of the panels in the longitudinal direction. Lateral expansion and contraction is accomodated by the configuration of the panel cross section and causes negligible panel movement.

When the total length of panel run exceeds the capability of the floating clips to accomodate the thermal movement, expansion joints must be designed into the structure.

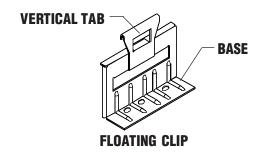
SELECTION OF SYSTEM COMPONENTS

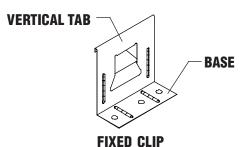
The following information should be used to determine system components needed once insulation size has been selected. Refer to Fastener Selection Guide on pages 11, 12 for proper fasteners required for selected componenets.

	SYSTEM COMPONENTS					
SYSTEM	CLIP	RAKE ANGLE	EAVE PLATE	THERMAL BLOCK	INSULATION	
LOW	3 1/4" LOW	3 ¹ /8" LOW	1/4" LOW	NONE REQUIRED	4" TO 6" BLANKET	
HIGH	4 1/4" HIGH	4 ¹ /8" HIGH	1 1/4" HIGH	1"	4" TO 6" BLANKET	

SEAM-LOC 24 PANEL CLIPS

The floating clip allows the roof surface (panels) to move independently of the roof substructure to allow for thermal expansion and contraction. These clips are designed with a vertical tab that slides along the base section of the clip. Clips are placed along the male leg of each panel prior to installing adjacent panels. Design wind uplift requirements must be considered for proper clip spacing
The fixed clip does not allow the roof surface (panels) to move independently of the roof substructure allowing for thermal expansion and contraction. These clips are only recommended for buildings designed with panel lengths less than 30'-0".



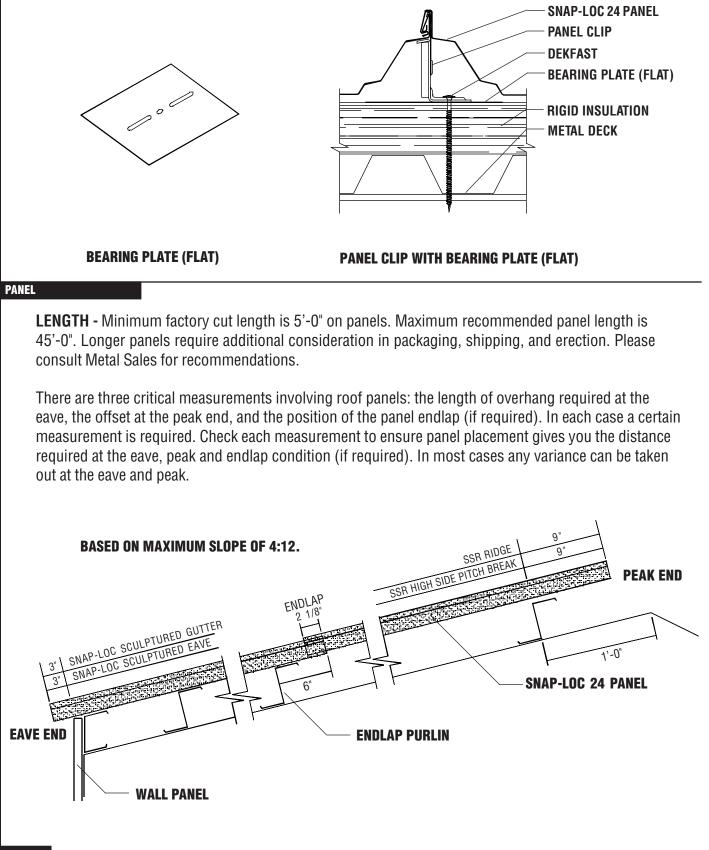


The following chart should be used to determine proper fasteners required for clip installation on the selected applications. See Fastener Selection Guide pages 11, 12 for other fasteners available.

APPLICATION	TYPE OF FASTENER	NUMBER OF FASTENE	RS REQUIRED
CLIP OVER PURLINS (12 GA. MAX)	1/4-14 X 11/2" SD N/W	STANDARD	- 1 FASTENERS
GLIP OVER PORLINS (12 GA. MAX)	1/4-14 X 11/2" SD N/W	UL-90 (CONST. NO. 240)	- 1 FASTENERS
CLIP OVER WOOD DECK	10 X 1" PANCAKE HEAD WOODSCREW	STANDARD	- 2 FASTENERS
CLIP OVER WOOD FRAMING	14 X 1 5/8" DEKFAST	STANDARD	- 2 FASTENERS
CLIP OVER BAR JOIST	12-24 X 1 ¹ /4" SD N/W #4	STANDARD	- 1 FASTENERS
GLIF OVEN BAN JUIST	12-24 X 1 ¹ /4" SD N/W #4	UL-90 (CONST. NO. 240)	- 1 FASTENERS
CLIP OVER RIGID INSULATION / METAL DECK	DEKFAST #15*	STANDARD	- 2 FASTENERS

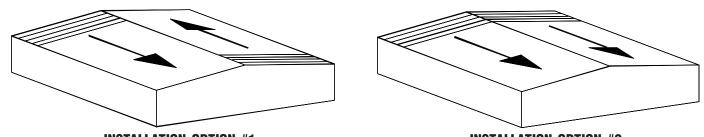
* Length of Dekfast will vary depending on the total thickness of the rigid insulation and metal deck.

BEARING PLATE - Bearing Plate is used when installing panel directly over rigid insulation material. The Bearing Plate (Flat) is used in conjunction with a 3 ¹/₄" Floating or Fixed Clip.



INSTALLATION DIRECTION

Snap-Loc 24 can be installed on each roof plane from left to right as shown in option #1. Snap-Loc 24 accessories are fabricated to allow the installer to begin work on the left side of the building, continue across the ridge, and work to the right side of the building, option #2. However, if endlapping of panels is required, panels must be laid from left to right.

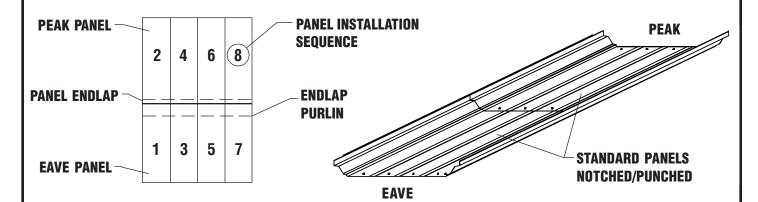


INSTALLATION OPTION #1

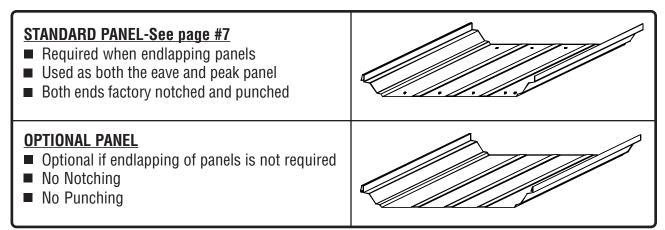


PANEL ENDLAPPING

If panel endlapping is required, endlaps are to be applied in one continuous line. This allows the cinch straps to complete full coverage of the Snap-Loc 24 panel. See page 35-37



FACTORY NOTCHED/PUNCHED PANELS - Unless otherwise specified, Metal Sales provides all Snap-Loc 24 panels with factory rib notching and fastener hole punching on both panel ends. This eliminates reliance on field notching for weathertight seams at panel endlaps and ease of fastener hole alignment. Panels that are not to be factory notched/punched must be specified at time of order.



SNAP-LOC 24 HANDLING MATERIAL

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 truck.

After receiving material check their condition 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

CAUTION

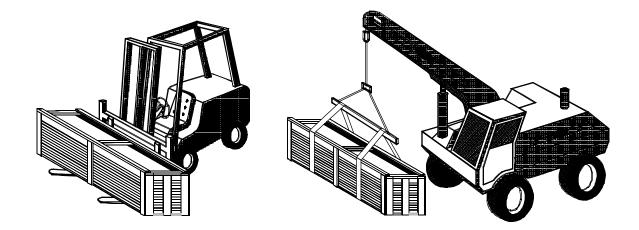
Improper loading and unloading of bundles and crates may result in bodily harm and/or material damage. Metal Sales is not responsible for bodily injuries and/or material damages resulting from improper loading and unloading.

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 recrate them before lifting. To avoid damage please lift the bundle at its center of gravity.

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.



SNAP-LOC 24 HANDLING MATERIAL (CONT.)

MANUAL HANDLING

When using unpainted, bare Galvalume panels, care should be taken to prevent staining 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. Acrylic Coated Gavalume panels will not stain like bare Galvalume, but the same precautions should be taken.

Handling of individual panels should be done carefully and properly to avoid bending or damaging. Snap-Loc 24 panels should be carried by grasping the edge of the panel so that the Snap-Loc 24 panel is vertical to the ground. The Snap-Loc 24 panel should not be carried with the flat of the panel 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.

CORRECT

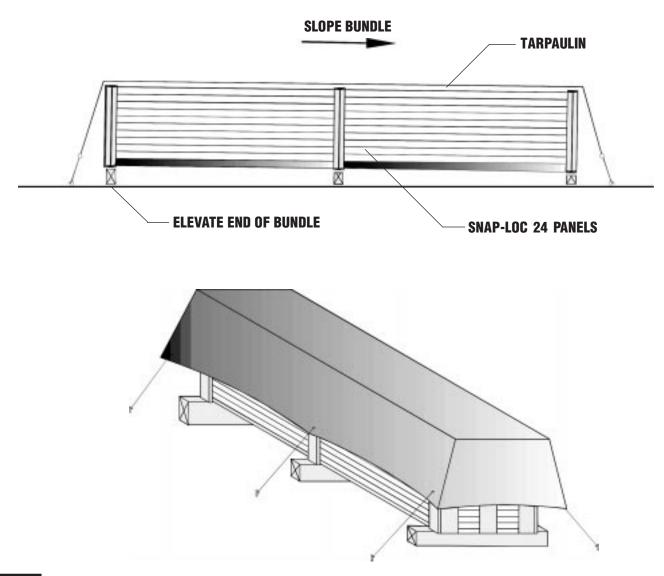
INCORRECT

SNAP-LOC 24 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 restack 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. If possible, 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 sheets 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.**



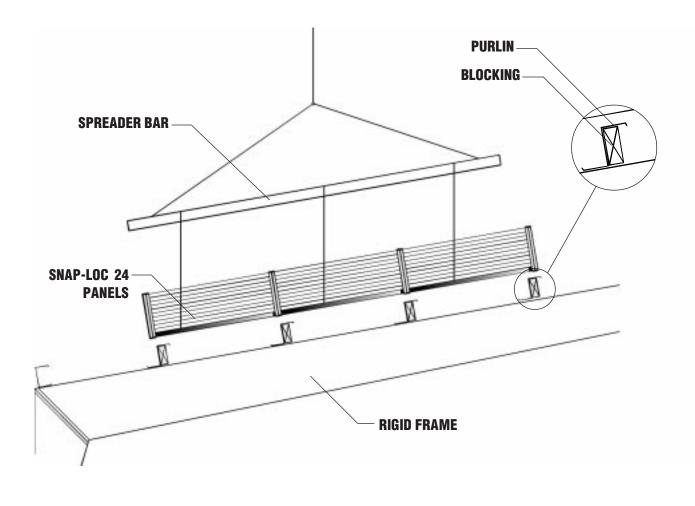
SNAP-LOC 24 STORAGE (CONT.)

STORAGE ON ROOF

To facilitate the handling of Snap-Loc 24 panels, panel bundles can be lifted and placed on the roof if located at a rigid frame with blocking in place to prevent the purlins, if any, from rolling over. Bundles need to be placed over the rigid frame in order for the roof structure to handle the weight. Loading capabilities of the structure must be checked.

When lifting packaged sheets, make certain they are adequately supported. Panels less than 20'-0" in length can normally be lifted with a forklift; however, when lifting panels in excess of 20'-0", it is recommended that a spreader bar and slings be used. As a rule, when lifting, no more than $\frac{1}{3}$ of the length of the panel should be left unsupported.

Make a plan for bundle placement by determining how much area a bundle of panels will cover. Bundles should be placed on the roof in accordance with the direction the panel will be installed. Consider where the string line, if any, is to run at the eave to set roof panels by. Roof bundles should not interfere with this string line.



SNAP-LOC 24 FOOT TRAFFIC

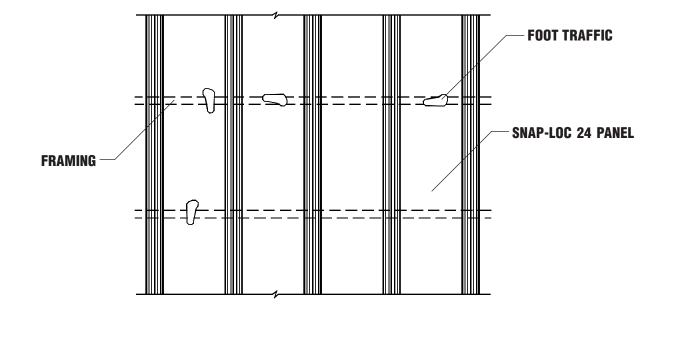
Care of metal panels and flashings must be exercised throughout erection. Foot traffic can cause distortion of panel and damage to finish. Traffic over the installed system must be kept to an absolute minimum. If continuous foot traffic is necessary for maintenance over certain areas of the roof, then a permanent walkway should be installed.

Do not use the roof panel as a walking platform. The roof panels will not withstand the weight of a person standing on the panel until the panel has been snapped into place and all eave/valley fasteners have been installed. Maximum load carrying capability of the Snap-Loc 24 panel is not acheived until the panel has been snapped into place and all fasteners installed. Failure to follow these instructions may result in serious or fatal injuries.

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. If Snap-Loc 24 is installed over open framing, step in the flat of the panel only and as close to the framing as possible.

CAUTION

Do not stand on the roof panel until the panel has been snapped into place and all fasteners have been installed. Failure to do so may result in serious or fatal injuries.



SNAP-LOC 24 FIELD CUTTING AND TOUCH-UP

FIELD CUTTING

Tin snips or a "nibbler" type electric tool are recommended for field cutting Snap-Loc 24 panels. Cutting the steel generates slivers or metal chips. These slivers and metal chips must be immediately removed from the Snap-Loc 24 panels because they will damage the finish and shorten the life of the product.

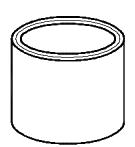
One method of preventing this problem is to flip the Snap-Loc 24 panels over when cutting. This allows the slivers and metal chips to be brushed from the back side and avoids damaging the paint on the top side of the panels.

When cutting Snap-Loc 24 panels, 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 overspray that may occur. Due to accelerated fade rate, touch-up paint should be applied sparingly.





SNAP-LOC 24 INSTALLATION PROCEDURE OVERVIEW

- The following procedures (pages 27-53) are presented as a general guide for installing Snap-Loc 24 panels, flashings, and accessories on a typical metal building.
- **D** The installation procedures will involve:
 - 1. Panel installation from left to right (looking from eave to peak).
 - 2. Installation over steel purlins, rake angles, and eave struts.
 - 3. Panel installation over faced blanket insulation (insulation not shown).
 - 4. Clip system without Thermal Blocks.
 - 5. Eave Plate attached to eave framing member.
 - 6. Wall panel installation prior to roof panel.
 - 7. Gutter Drip and Snap-Loc Sculptured Gutter flashing used at the eave.
 - 8. Starting panels on module and ending panels off module.
 - 9. Panel runs with endlaps.
 - 10. SSR Sculptured Rake (off module) flashing used at the rake.
 - 11. SSR Ridge flashing used to close off peak end.

SSR RIDGE (SEE PAGE 47)

— ENDLAP (SEE PAGE 35)

METAL OUTSIDE CLOSURE (SEE PAGE 42) -

SNAP-LOC 24 PANEL (SEE PAGE 32) -

FLOATING RAKE ANGLE (SEE PAGE 27) -

SSR RAKE CLEAT (SEE PAGE 43) -

SSR SCULPTURED RAKE — (OFF MODULE) (SEE PAGE 43)

SSR GUTTER SUPPORT

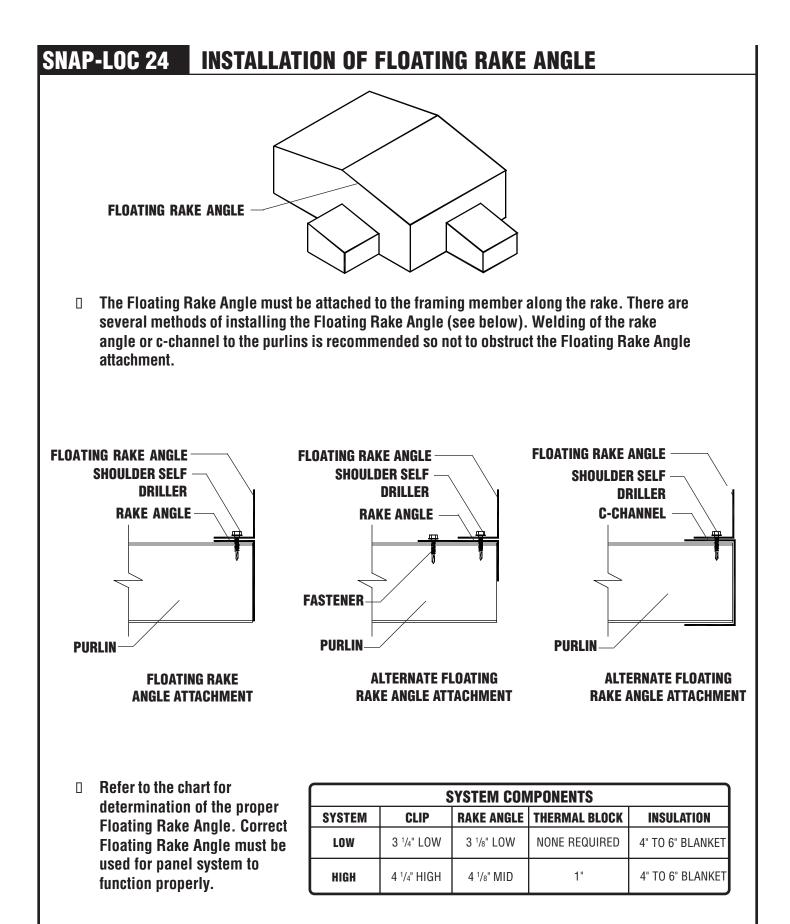
(SEE PAGE 50)

SNAP-LOC SCULPTURED GUTTER (SEE PAGE 51)

> GUTTER DRIP (SEE PAGE 30) --METAL INSIDE CLOSURE (SEE PAGE 31)

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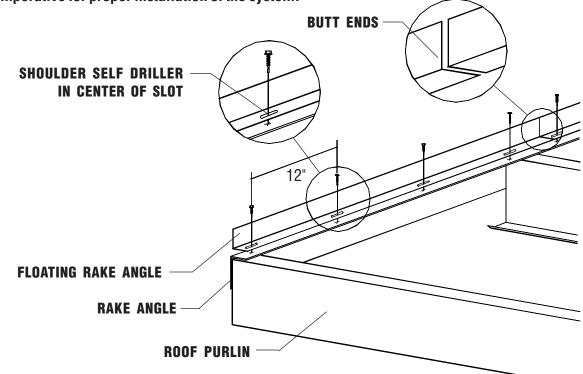
EAVE PLATE (SEE PAGE 29)



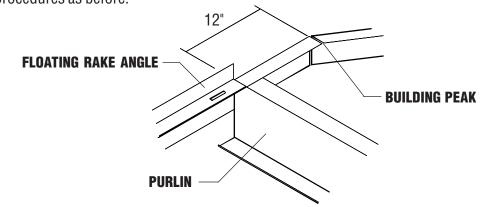
SNAP-LOC 24 INSTALLATION OF FLOATING RAKE ANGLE (CONT.)

<u>STEPS</u>

- 1. Starting on the left hand side, at the eave of the building (looking eave to peak), align the Floating Rake Angle flush with the existing rake angle. It is critical that the Floating Rake Angle be straight and square with the building as it controls the alignment of the roof panels.
- Fasten the Floating Rake Angle with #12-14 x 1¹/4" Shoulder Self Driller screws into the center of each slot, (12" intervals). Do not overfasten screws. Movement of Floating Rake Angles are imperative for proper installation of the system.

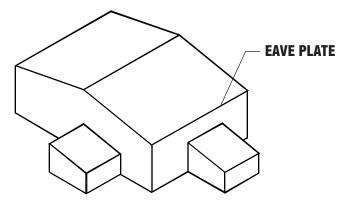


- **3.** If two or more Floating Rake Angles are required, butt ends of Floating Rake Angles (do not overlap) and continue fastening.
- 4. If necessary, field cut Floating Rake Angles to terminate 12" from peak of building.
- **5.** Install Floating Rake Angles on the opposite end where the panels terminate using the same procedures as before.



- **6.** After applying Floating Rake Angles, insulation (if required) can be installed. Roll out insulation eave to peak, laying side of insulation on Floating Rake Angle.
- 7. Avoid sidelap of insulation occurring directly beneath sidelap of panel.

SNAP-LOC 24 INSTALLATION OF EAVE PLATE

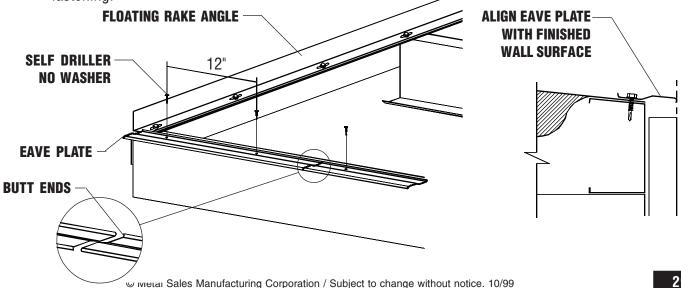


- The Eave Plate serves as an extension of the structure to support and fasten the panel at the eave on applications utilizing the Low or High clip systems.
- Refer to the chart for determination of the proper Eave Plate. The correct Eave Plate must be used for the panel system to function properly.

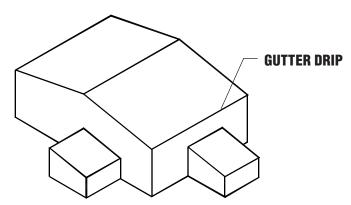
SYSTEM COMPONENTS					
SYSTEM	CLIP	EAVE PLATE	THERMAL BLOCK	INSULATION	
LOW	3 1/4" LOW	3 1/8" LOW	NONE REQUIRED	4" BLANKET	
HIGH	4 1/4" HIGH	4 ¹ /8" MID	1"	4" TO 6" BLANKET	

<u>STEPS</u>

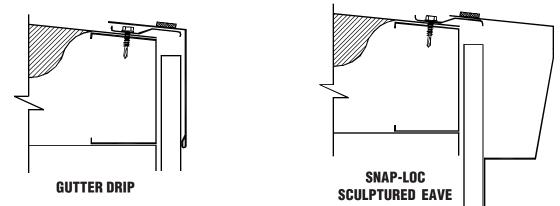
- **1.** If using blanket insulation the Eave Plate may be used to secure the insulation at the eave. Be sure to remove the fiberglass and fasten only the vapor barrier to avoid wicking.
- 2. Place pre-punched leg of Eave Plate on top of Floating Rake Angle lower leg. Align the top leg of the Eave Plate flush with the finished wall surface at the eave of the building.
- **3.** Fasten Eave Plate to eave framing member with $\frac{1}{4} 14 \times \frac{1}{2}$ " Self Driller No Washer screws 12" O.C. Do not fasten through Eave Plate into Floating Rake Angle. Movement of the Floating Rake Angle is imperative for proper installation of system.
- 4. If two or more Eave Plates are required, butt ends of the Eave Plates (do not overlap) and continue fastening.



SNAP-LOC 24 INSTALLATION OF GUTTER DRIP FLASHING

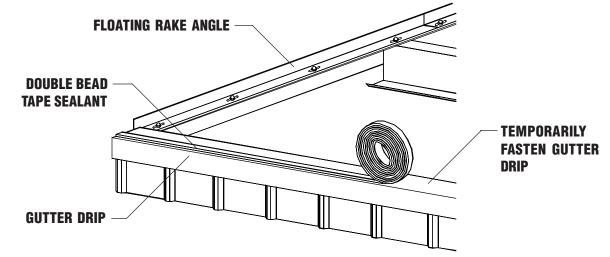


- The Gutter Drip flashing provides additional protection against moisture at the eave end of the roof and is used only in conjunction with the Snap-Loc Sculptured Gutter.
- **I** The Gutter Drip flashing can be installed either prior to or during roof panel installation.
- It is recommended that the wall surface be installed prior to the Gutter Drip installation.
- **I** The following procedures also apply to applications utilizing Snap-Loc Sculptured Eave.

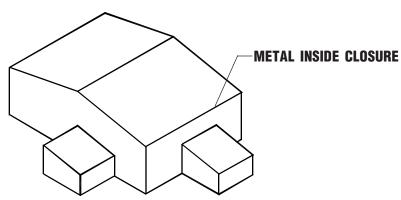


STEPS

- **1.** Place the Gutter Drip flashing along the eave on top of the upper leg of the Eave Plate. Make sure the Gutter Drip flashing is flush with the finish wall surface.
- **2.** Temporarily fasten the Gutter Drip to the Eave Plate. Once panel installation occurs, permanent fasteners will be placed through the panel into the Gutter Drip and the Eave Plate.
- **3.** Apply a continuous strip of Double Bead Tape Sealant where the Gutter Drip rests on top of the Eave Plate. Do not remove the paper backing off of the Double Bead Tape Sealant.



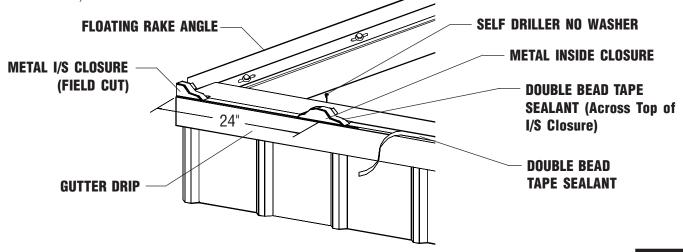
SNAP-LOC 24 INSTALLATION OF METAL INSIDE CLOSURE



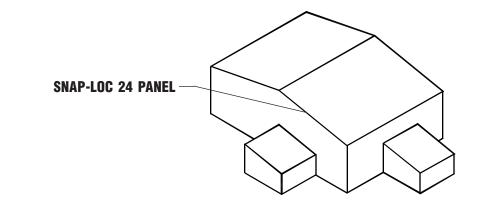
- Snap-Loc 24 panels can be installed going from either left to right or right to left, looking from eave to peak. If the roof is symmetrical about the ridge and without any endlaps, the panel can be installed on both sides simultaneously. However, if endlapping of panels is required, panels must be installed from left to right.
- The following procedures are based on installing Snap-Loc 24 panel from left to right starting on module (full panel width). For starting panel off module see page 41.
- The following procedures are for installing the Snap-Loc 24 panel to accomodate for Snap-Loc Sculptured Gutter and Gutter Drip flashing.
- Metal Inside Closures can be installed prior to panel installation or as the panel installation occurs. The following procedures are based on installing Metal Inside Closures as installation of each panel occurs.

<u>STEPS</u>

- 1. Starting at the left hand side of the building (looking eave to peak) measure from the vertical leg of the Floating Rake Angle along Gutter Drip flashing and mark every 24". Care should be taken in measuring as this helps determine panel modularity.
- 2. Strip off the paper backing on the Double Bead Tape Sealant a few inches past the first mark.
- **3.** Field cut a Metal Inside Closure in half and place on top of the Double Bead Tape Sealant flush with the end of the Gutter Drip flashing. Place next Metal Inside Closure so that the hole at the base of the closure lines up with the first mark.
- **4.** Fasten both Metal Inside Closures through Gutter Drip flashing and into Eave Plate with #1/4-14 x 11/2" Self Driller No Washer screws.
- **5.** Apply Double Bead Tape Sealant to the top of the Metal Inside Closures. Cut Double Bead Tape Sealant, do not tear.



SNAP-LOC 24 INSTALLATION OF PANEL

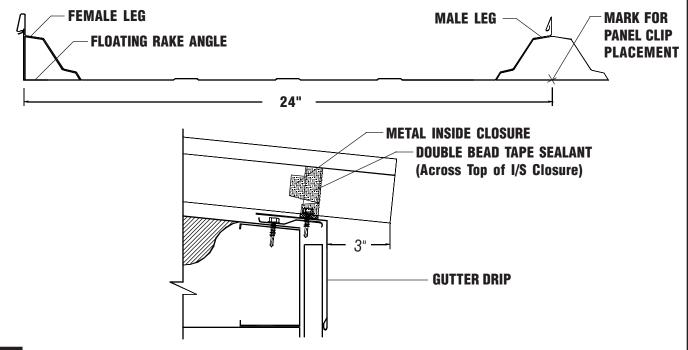


INSTALLING FIRST PANEL

- Snap-Loc 24 panels can be installed going from either left to right or right to left, looking from eave to peak. If the roof is symmetrical about the ridge and without any endlaps, the panel can be installed on both sides simultaneously. However, if endlapping of panels is required, panels must be installed from left to right.
- The following procedures are based on installing Snap-Loc 24 panel from left to right starting on module (full panel width). For starting panel off module see page 41.
- The following procedures are for installing the Snap-Loc 24 panel to accomodate for Snap-Loc Sculptured Gutter and Gutter Drip flashing. If Snap-Loc Sculptured Eave, is to be used, installation can occur prior to or during roof panel installation.

STEPS

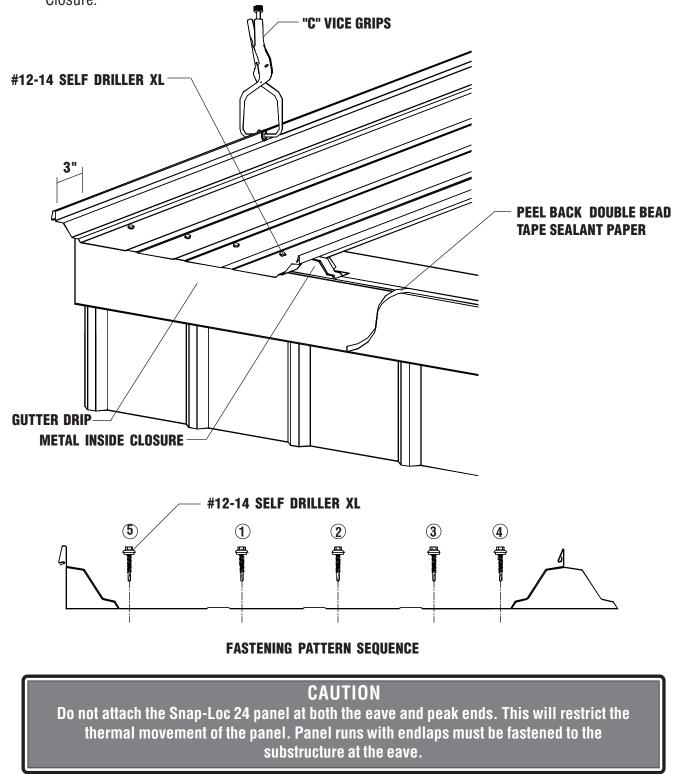
- 1. Prior to installing panel, measure from the vetical leg of the Floating Rake Angle along each framing member and mark every 24" for panel clip placement. Care should be taken in measuring as this helps determine panel modularity.
- **2.** Position the first panel so the female leg is on the top of the Floating Rake Angle and the panel is against the vertical leg of the Floating Rake Angle.
- **3.** Slide the panel over the Gutter Drip 3" past finished wall surface.



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SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

- **4.** Use a "C" vice grip to clamp the panel against the vertical leg of the Floating Rake Angle.
- 5. Recheck the panel overhang dimension at eave, peak, and endlap (if required), and adjust if necessary.
- 6. Fasten panel to the Gutter Drip flashing and Metal Inside Closure using six (5) #12-14 Self Driller XL screws. Fasteners must penetrate the Eave Plate below the Gutter Drip and the Metal Inside Closure.



SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

INSTALLING PANEL CLIPS

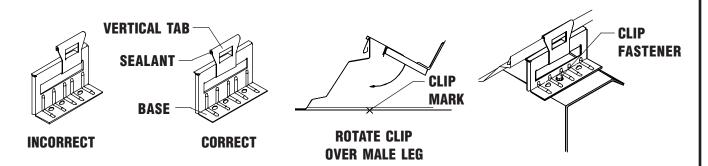
- Design wind uplift requirements must be considered for proper placement of clip and spacing.
- Refer to the chart for determination of the proper clip size. Correct clip size must be used for panel system to function properly.

SYSTEM COMPONENTS					
SYSTEM	CLIP	THERMAL BLOCK	INSULATION		
LOW	3 1/4" LOW	NONE REQUIRED	4" TO 6" BLANKET		
HIGH	4 1/4" HIGH	1"	4" TO 6" BLANKET		

- It is important to maintain 24" increments between panel clips along the same framing member as the panel clips control panel modularity.
- The following procedures are based on installing panel clips over steel roof purlins. For fastening clips to a substructure other than steel purlins, see page 17 for correct fastener selection.

<u>STEPS</u>

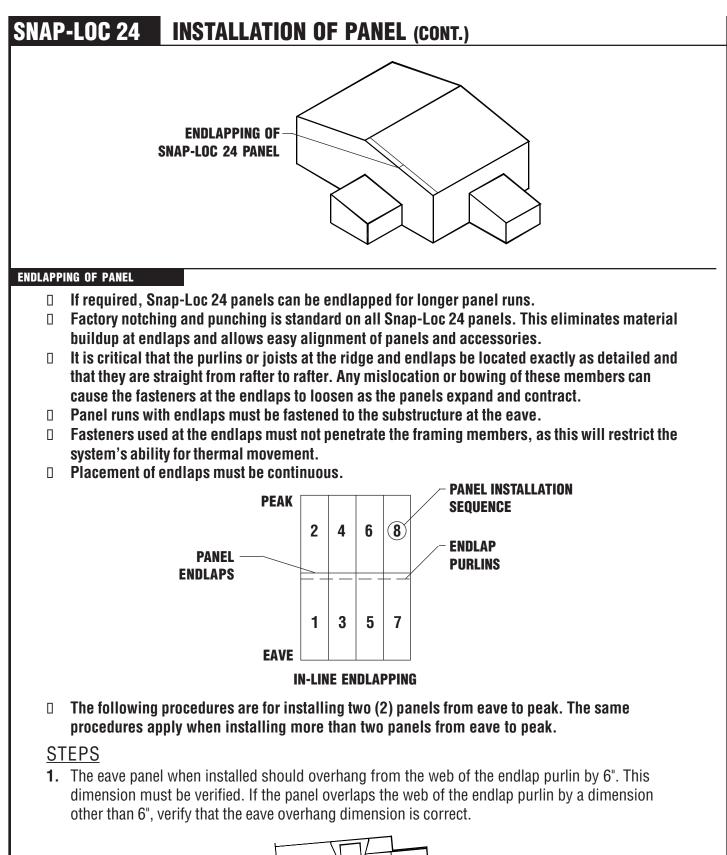
- 1. Center the vertical tab of the clip with the slot in the base, this allows the system to float properly.
- 2. Apply a bead of Tube Sealant to the underside of the vertical tab of the clip.
- **3.** Place the panel clip over the male leg of the panel and center the base of the clip with the center of the purlin top flange.
- **4.** Rotate the clip to a vertical position so that the base of the clip rests on the top flange of the purlin and aligns with clip placement mark.
- Fasten clip to purlin with one (1) #¹/₄-14 x 1¹/₂" Self Driller No Washer screw into the 2ND hole on the clip.

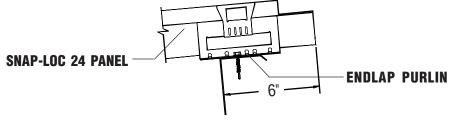


CAUTION

If a fastener strips out, you must remove the clip and reposition it so the fastener can drill a new hole at least 3/8" from the stripped hole or install an oversized fastener in the stripped hole. Failure to do this will result in weakening the roof wind uplift resistance.

- 6. Clips should be installed at all purlin intersections. Panel clips are not required at eave framing members.
- **7.** As installing clips along the male leg of the panel, measure across the panel to confirm modularity.
- **8.** If installing over insulation, some method of finding the purlins for clip location must be used. Insulation should be installed as panels are installed allowing for ease of locating purlins.

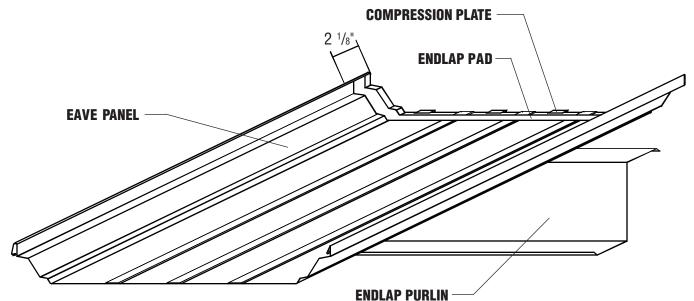




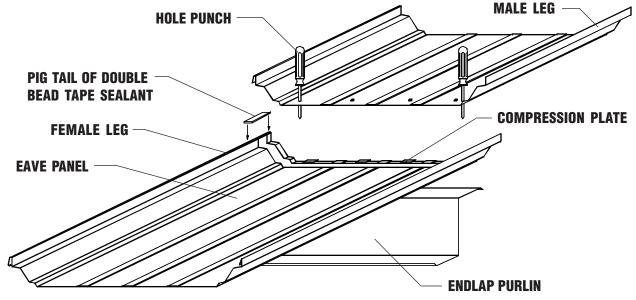
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SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

- 2. The male and female side of both ends of the eave panel are factory notched 2 ¹/₈" to allow the peak panel to nest inside the eave panel.
- **3.** Slide the Compression Plate on to the end of the eave panel. The tab on the Compression Plate should engage the panel. A portion of the Compression Plate should rest on the purlin flange.
- **4.** Apply an Endlap Pad on the endlap end of the eave panel down the male leg, across the panel, and up the female leg ¹/₄" from the end of the panel. Center the Endlap Pad over the factory punched holes. Do not stretch the Endlap Pad as this will cause gaps in the pads coverage.

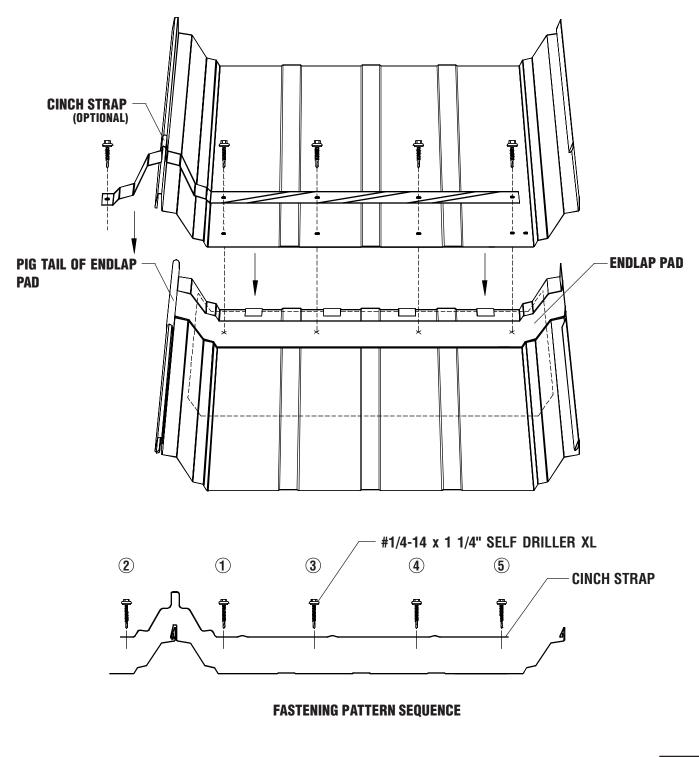


- **5.** Apply a 2 ¹/₈" pig tail of Double Bead Tape Sealant over the factory notched section of the Snap-Loc 24 panel legs.
- 6. Place two hole punches in the peak panel in the outer most factory punched holes. Push punches through endlap pad and factory punched holes in compression plates, thus aligning panels and lapping the proper 2 ¹/₈".
- 7. Nest the peak panel into the eave panel. It may be necessary to bow the center of the peak panel slightly upward to allow ease in aligning the two panels.

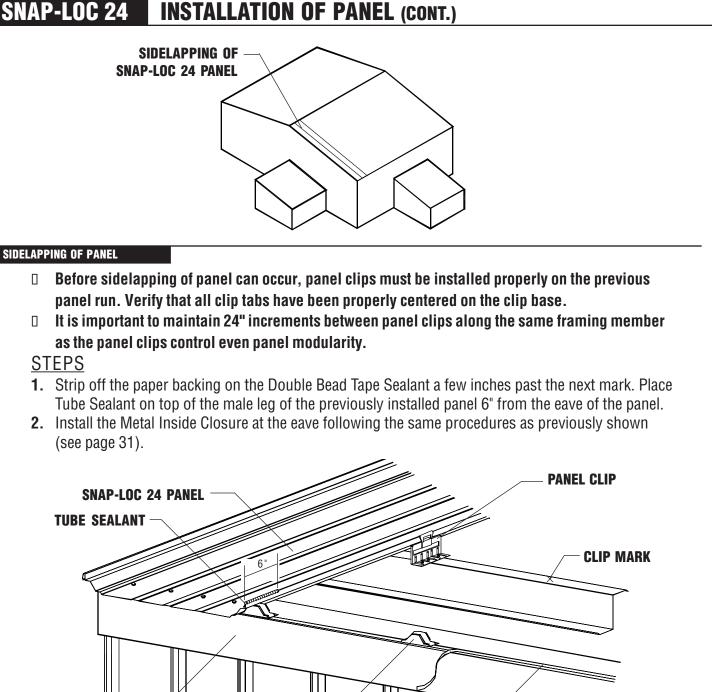


SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

- 8. Fastening the panel at the endlap is to be done with the use of a Cinch Strap. Cinch Straps are required on all UL 580 Class 90 projects.
- 9. Use a hole punch to align the holes in the panels with the holes in the compression plate. Place a Cinch Strap across the panel at the endlap so that the holes in the panels line up with the Cinch Strap holes. Two hole punches will be needed and placed in the first and last hole prior to fastening. Fasten the Cinch Strap, panels, and compression plate together with five (5) #1/4-14 x 1 1/4" Self Driller XL screws.



SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

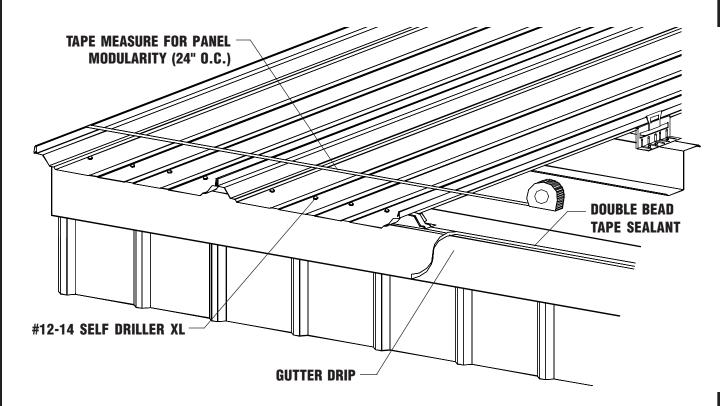


GUTTER DRIP METAL INSIDE CLOSURE DOUBLE BEAD TAPE SEALANT **3.** Place the female leg of the second panel on top of the male leg of the previously installed panel.

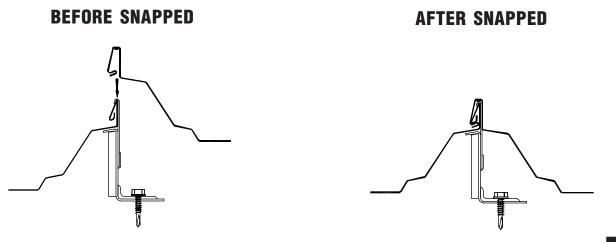
- Align the panel ends so that they are flush at the eave 3" past the finished wall surface. Do not let the flat of the second panel touch the Double Bead Tape Sealant at the eave until the ends are flush.
- **4.** Beginning at the eave end of the panel, use hand force to push the female leg of the panel down over the male leg. If required, a rubber mallet may be used to start the snapping at the eave.

SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

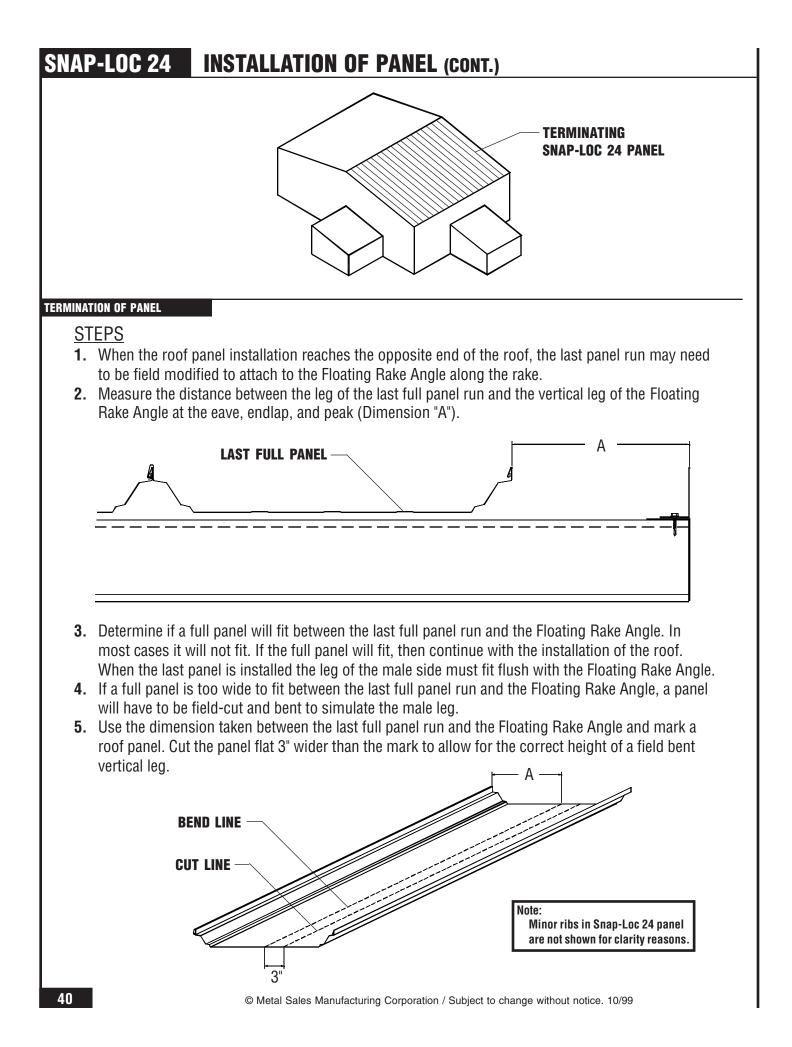
- 5. Fasten the panel to the Gutter Drip flashing and Metal Inside Closure using six (5) #12-14 Self Driller XL screws. Fasteners must penetrate the Eave Plate below the Gutter Drip and the Metal Inside Closure.
- **6.** Install panel clips along the male leg of the panel at each framing member (except at the eave) as previously shown.



- 7. Measure the distance from the female leg of the first panel installed. This dimension should be an even multiple of $24^{"} \pm 1/8^{"}$ for every four panels. It is very important that the dimension from the starting panel to the last male leg, at the eave and peak, be the same dimension within a $1/4^{"}$ of each other.
- **8.** Make certain that all clips are properly installed and that the panel sidelap is properly snapped into place. Use of a rubber mallet may be required to snap panels together at the panel clip locations.

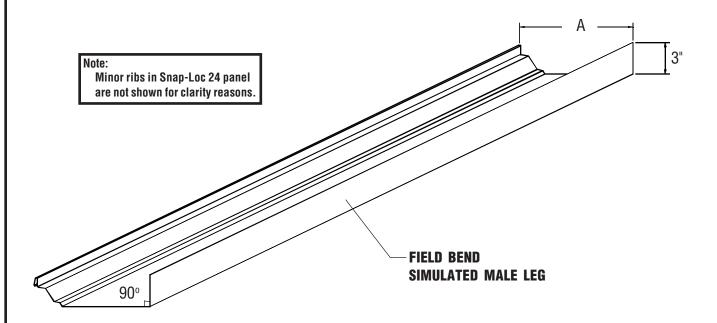


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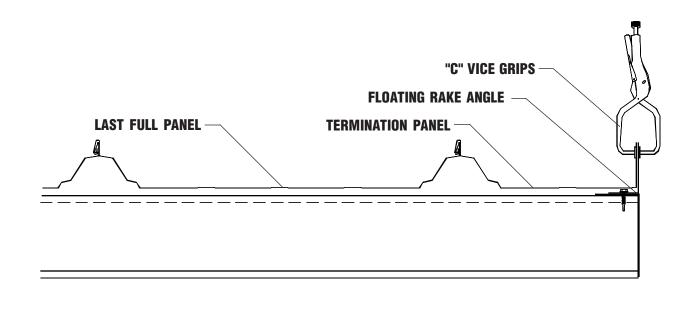


SNAP-LOC 24 INSTALLATION OF PANEL (CONT.)

6. Field bend the cut edge of the roof panel up 90 degrees to form a vertical leg.



- 7. Place the termination panel between the last full panel run and the vertical leg of the Floating Rake Angle, making sure the panel fits properly.
- **8.** Clamp the termination panel to the vertical leg of the Floating Rake Angle temporarily, until rake flashing can be installed.
- **9.** Install required fasteners at eave.



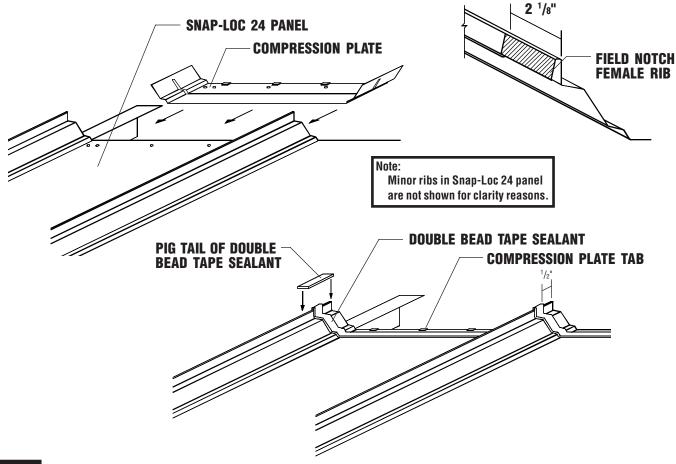
SNAP-LOC 24 INSTALLATION OF METAL OUTSIDE CLOSURE

METAL OUTSIDE CLOSURE
METAL OUTSIDE CLOSURE
Interview of the system is used to close off the high end of the panel.
Proper placement of the Metal Outside Closure is necessary for correct installation of flashing.
Fasteners used at the Metal Outside Closures must not penetrate the framing members, as this will restrict the system's ability for thermal movement.

Before installation of the Metal Outside Closure can begin, female rib must be field notched beyond that which was done at the factory. See detail below.

STEPS

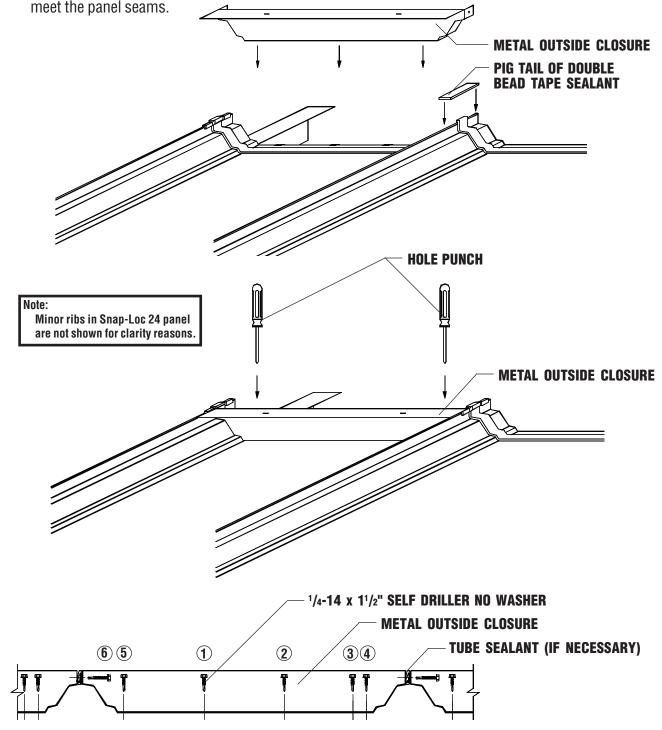
- 1. Slide a Compression Plate on to the end of the panel with the tab engaging the panel.
- 2. Apply Double Bead Tape Sealant down the female leg, across the panel and up the male leg 1/2" from the end of the panel. Double Bead Tape Sealant must completely cover all factory punched holes. Apply a 2 1/2" long pig tail of Double Bead Tape Sealant over the section of the female rib which must be field notched.



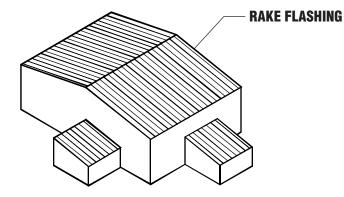
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SNAP-LOC 24 INSTALLATION OF METAL OUTSIDE CLOSURE (CONT.)

- **3.** Place the Metal Outside Closure on Double Bead Tape Sealant making sure the punched lower leg is towards the tab of the Compression Plate. The punched lower leg's holes will line up with the holes in the panel. Place round hole punches in the two outer most holes, thus aligning the Metal Outside Closure, Compression Plate, and panel. Use a "C" vise grip to hold parts until fastened.
- **4.** Fasten the Metal Outside Closure with six (6) #1/4-14 x 11/2" Self Driller No Washer screws. Fasten center holes first, then remove round hole punches and fasten. Fasteners must penetrate the Metal Outside Closure, sealant, and Compression Plate. Apply rib fastener last.(See Below)
- 5. Once Metal Outside Closures are installed, apply Tube Sealant (if necessary) where the closures meet the panel seams.



SNAP-LOC 24 INSTALLATION OF RAKE FLASHING



- **I** The rake flashing should not be installed until the endwall panels have been installed.
- The following procedures are based on installing the SSR Sculptured Rake (Off Module) flashing.

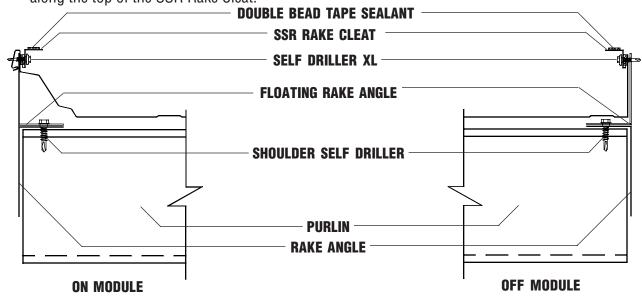


SSR SCULPTURED RAKE (OFF MODULE)

SSR SCULPTURED RAKE

<u>STEPS</u>

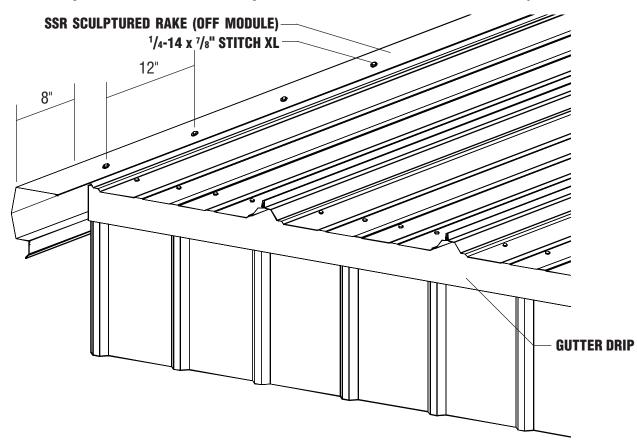
- 1. The SSR Sculptured Rake (Off Module) flashing requires the use of a SSR Rake Cleat flashing. For installation of the SSR Rake Cleat, run a continuous strip of Double Bead Tape Sealant along the top edge of the female leg on the starting panel and along the top edge of the field formed leg of the terminating panel.
- Position a SSR Rake Cleat over the Double Bead Tape Sealant and install #12-14 Self Driller XL screws 12" O.C. through the Rake Cleat, Sealant, roof panel, and the vertical leg of the Floating Rake Angle.
- **3.** Once the SSR Rake Cleat is installed, apply a continuous strip of Double Bead Tape Sealant along the top of the SSR Rake Cleat.



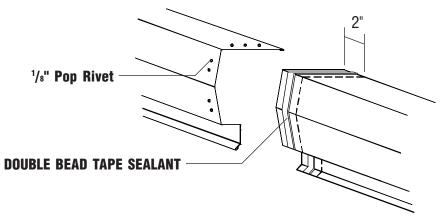
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SNAP-LOC 24 INSTALLATION OF RAKE FLASHING (CONT.)

- 4. If Snap-Loc Sculptured Gutter is to be installed, start the SSR Sculptured Rake flashing at the eave by placing the rake flashing 8" past the eave end of the panel. If Snap-Loc Sculptured Eave is to be installed, start the rake flashing at the eave 4" past the eave end of the panel. For installing flashings other than sculptured flashings consult Metal Sales.
- 5. Position the top part to the SSR Rake flashing so that it rests on the wall panel and the SSR Rake Cleat. Adjust the SSR Rake flashing until the top part is level. Fasten the SSR Sculptured Rake flashing to the SSR Rake Cleat using #1/4-14 x 7/8" Stitch XL screws. Fasten every 12" O.C.

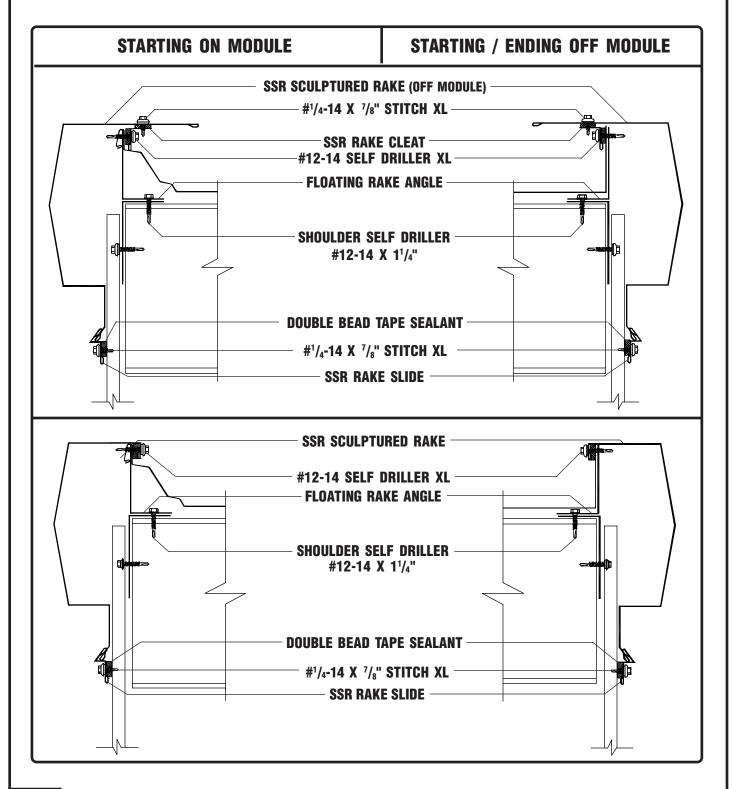


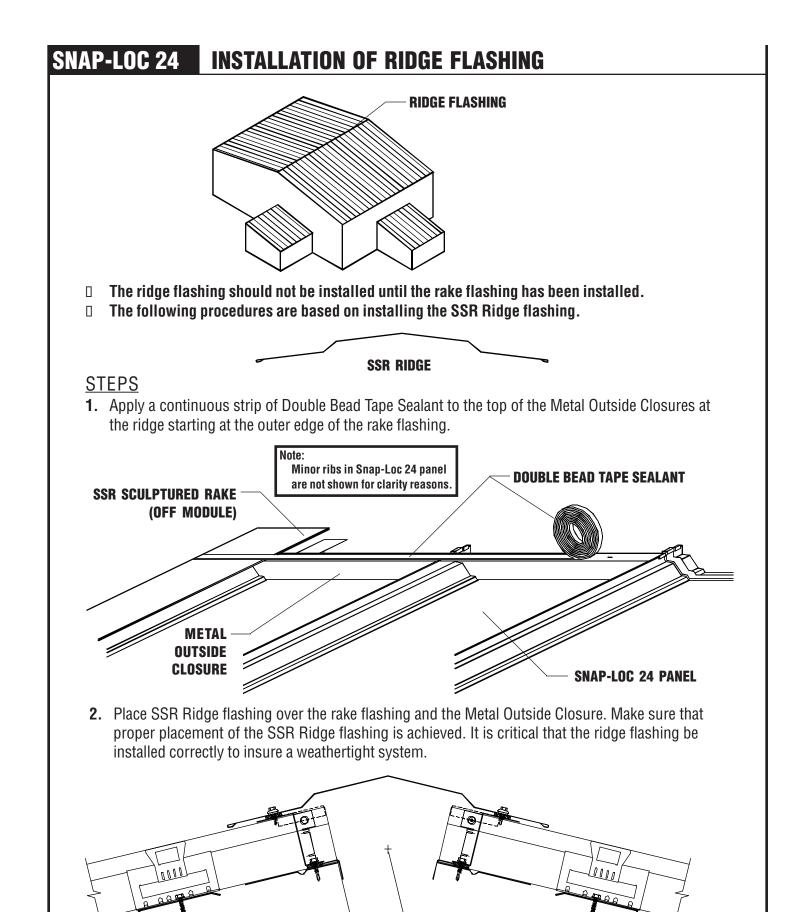
6. If two or more SSR Sculptured Rake flashings are required, working from eave to peak of building, lap rake flashing over previously installed flashing by a minimum of 2" placing Double Bead Tape Sealant between the flashings along the edge where they lap. Fasten at lap with eight (8) #1/4-14 x 7/8" Stitch XL screws or 1/8" Pop Rivets as shown.



SNAP-LOC 24 INSTALLATION OF RAKE FLASHING (CONT.)

- 7. Attachment of the lower leg of the SSR Sculptured Rake flashing must be accomplished with the use of a SSR Rake Slide flashing. The SSR Rake Slide will allow the rake flashing to move with the roof panels (thermal expansion and contraction).
- **8.** Place the SSR Rake Slide over the lower leg of the SSR Sculptured Rake and fasten it to the wall with the proper type of fasteners every 12" O.C. max.





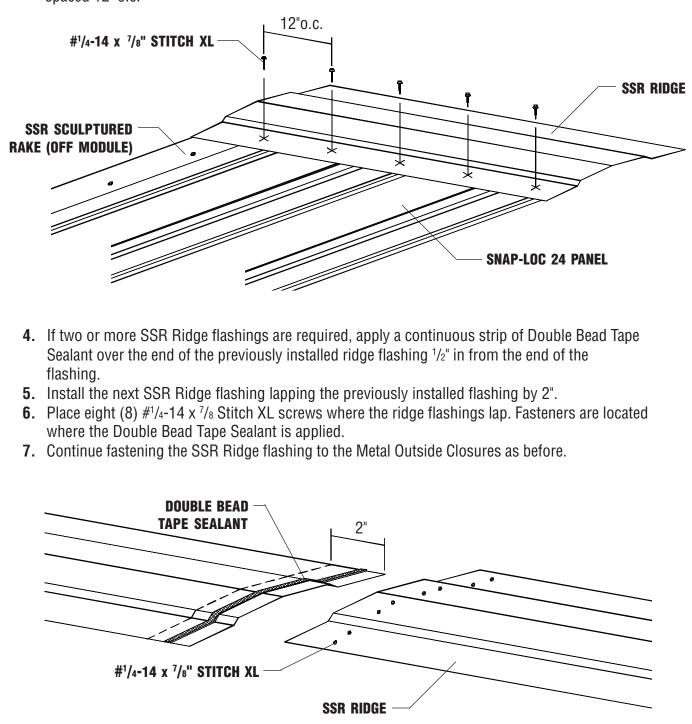
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9"

3"

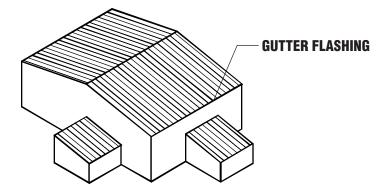
SNAP-LOC 24 INSTALLATION OF RIDGE FLASHING (CONT.)

3. Attach the SSR Ridge flashing to the Metal Outside Closure with #1/4-14 X 7/8" Stitch XL screws spaced 12" o.c.

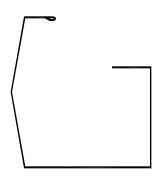


8. When using a SSR Ridge flashing, the ends of the ridge where the flashing meets the rake must be closed off. In most cases a closure can be field fabricated from excess material to fit the gap.

SNAP-LOC 24 INSTALLATION OF GUTTER FLASHING



- The gutter flashing is an important visual aspect of the building. If the gutter is not installed straight or if the gutter joints are unsightly, the building will not have a quality appearance. When installing the gutter flashing, any dimensional flaws in the structure or roof can affect the gutter position.
- **I** The following procedures are for installing the Snap-Loc Sculptured Gutter flashing.



SNAP-LOC SCULPTURED GUTTER

CAUTION

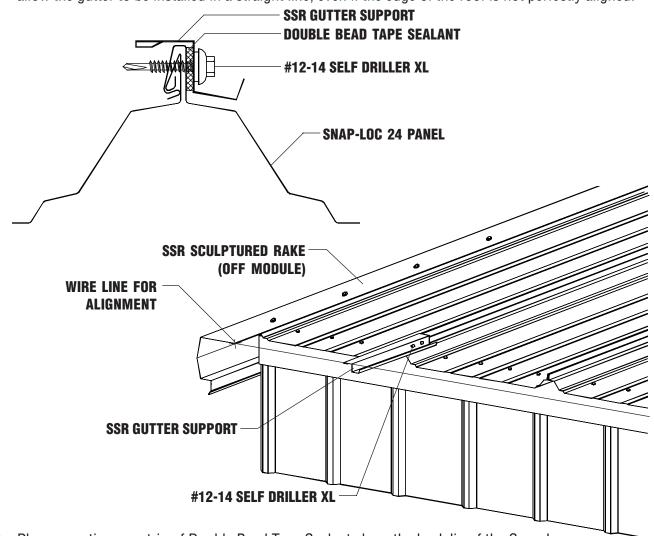
In locations where heavy rainfall or severe ice and snow may occur, Metal Sales' standard gutters may not be suitable for use. Consult Metal Sales for recommendations on design of proper gutter.

<u>STEPS</u>

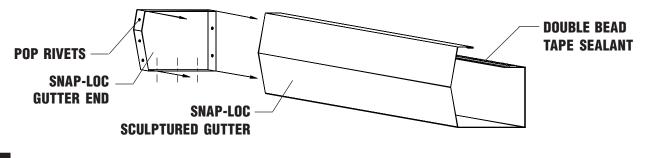
 Snap-Loc Sculptured Gutter is designed to accomodate some of the imperfections of the roof and the structure. Determine the best distance from the end of the panel to position the front lip of the Snap-Loc Sculptured Gutter. The range of dimensions is from 4 ⁵/₈" to 3 ⁵/₈" without trimming the back lip of the gutter. If required, the back lip can be trimmed from 2" to 1". Doing this will increase the range from 5 ⁵/₈" to 3 ⁵/₈".

SNAP-LOC 24 INSTALLATION OF GUTTER FLASHING (CONT.)

2. Attach the SSR Gutter Support to the panel rib every other panel (48" O.C.) with two (2) #12-14 Self Driller XL screws. A section of Double Bead Tape Sealant is placed on the panel rib where the SSR Gutter Support is fastened. A transit or a wire line should be used to align the SSR Gutter Supports at a set distance from the wall. The SSR Gutter Supports can be adjusted as much as 1" to allow the gutter to be installed in a straight line, even if the edge of the roof is not perfectly aligned.



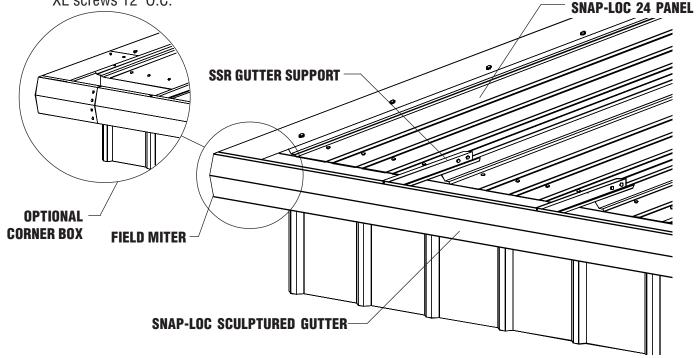
- **3.** Place a continuous strip of Double Bead Tape Sealant along the back lip of the Snap-Loc Sculptured Gutter and remove the paper backing.
- 4. Prepare the first gutter section with a Snap-Loc Gutter End. Consider rake to gutter connection for proper placement of Snap-Loc Gutter End. Use Double Bead Tape Sealant to seal between the Snap-Loc Gutter End and the gutter flashing. Fasten with eight (8) ¹/₄-14 x ⁷/₈" Stitch XL screws or Pop Rivets.



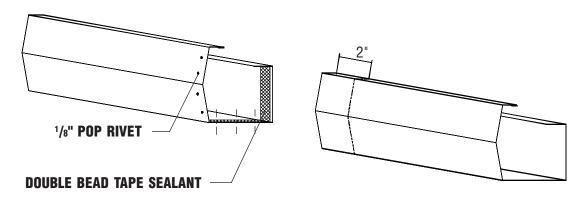
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SNAP-LOC 24 INSTALLATION OF GUTTER FLASHING (CONT.)

- 5. Position the gutter over the SSR Gutter Supports with one end against the rake flashing.
- **6.** Clamp the top of the back lip of the gutter in position with a "C" vice-grip clamp. Field miter the rake trim to fit the gutter contour at the corner of the building or a SSR Sculptured Corner Box can be installed.
- 7. Install a #1/4-14 x 7/8" Stitch XL screw or Pop Rivet where the front lip of the gutter rests on the SSR Gutter Support, and fasten the back lip of the gutter to the panel flat with #1/4-14 x 7/8" Stitch XL screws 12" O.C.

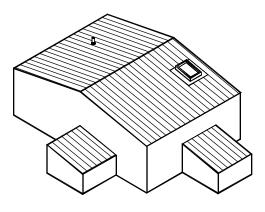


- **8.** If two or more gutter flashings are required, apply Double Bead Tape Sealant on the inside of the gutter flashing, two inches from the end.
- **9.** Lap the gutter flashing 2" and fasten with ten (10) #1/4-14 x 7/8" Stitch XL screws or Pop Rivets as shown below.



- **10.** Continue fastening the gutter flashing to the SSR Gutter Support and the panel flat as before.
- **11.** Terminate the gutter at the rake flashing by attaching a Snap-Loc Gutter End to the gutter flashing and field cut the rake trim to fit the gutter contour.

SNAP-LOC 24 ROOF PENETRATIONS AND CURBS



GENERAL

Another important consideration is the size and location of all roof penetrations and roof mounted mechanical units.

Areas around roof vents or rooftop units may show that corrosive fumes are emmitted from a process within the building. If highly corrosive conditions are present, metal panel might not be the best solution for roofing.

On buildings that are being retrofitted with metal roofing it should be asked which units can be removed from the old roof and do any need to be added. If new equipment is to be added, will it have the same weight, opening, etc. of the old units? If any units require a high amount of maintenance, a walkway should be considered.

For retrofit roofs, installation of roof penetrations, curbs, and roof mounted mechanical units must be installed as panel installation occurs.

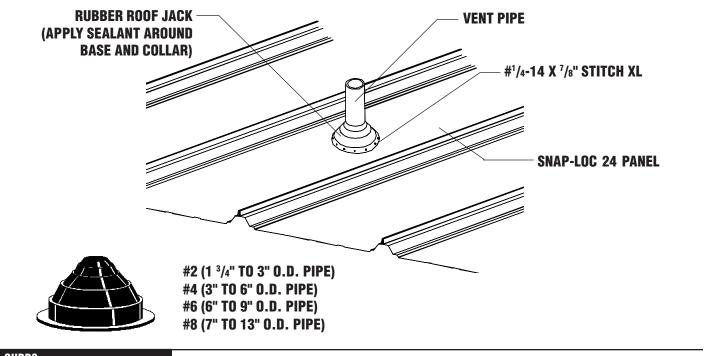
VENT PIPES

- The following procedures are for vent pipes 9" or less and not transmitting extremely hot or caustic materials.
- □ When installing vent pipes abide by the local plumbing codes.

<u>STEPS</u>

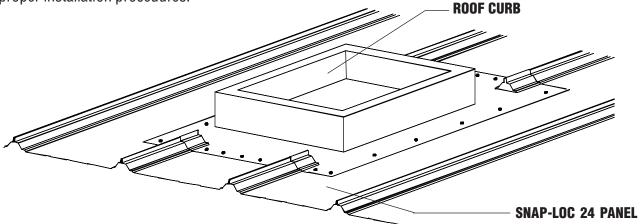
- **1.** Determine the size and length of the vent pipe to be raised.
- 2. Take the appropriate measurements for the vent location and mark them on the Snap-Loc 24 panel. The vent pipe must extend through the flat of the roof panel. If the vent pipe extension cannot be raised directly into the flat of the new roof panel, elbows should be used to offset the pipe. Cut the panel to fit the vent pipe properly.
- **3.** Use a light gauge angle to secure and plumb the vent pipe to the framing system.
- **4.** Flash the vent pipe with a Rubber Roof Jack or similar pipe flashing.
- **5.** Apply Tube Sealant between the panel and the base of the Rubber Roof Jack as well as the top where the boot meets the pipe.
- **6.** Attach the base of the Rubber Roof Jack to the panel using $\#^{1}/_{4}-14 \times 7/_{8}$ " Stitch XL fasteners.

SNAP-LOC 24 ROOF PENETRATIONS AND CURBS (CONT.)



CURBS

There are several different types of roof curbs available to fit with Metal Sales' Snap-Loc 24 panel. Some are designed to seam together with the adjacent roof panels, making the curb an integral part of the roof system. Others are designed to be installed by cutting holes in the roof after the panels have been installed. No matter which type of curb you decide upon, you should consult the manufacturer for proper installation procedures.



MANUFACTURERS OF ROOF CURBS:

Kentuckiana Curb Company Inc. Louisville, KY - Phone (800) 382-2872

Custom Curb Inc. Chattanooga, TN - (615) 629-6241

Phoenix, AZ - (602) 278-0245

Design Components Inc.

College Park, GA - Phone (903) 297-2148

ThyCurb Corporation

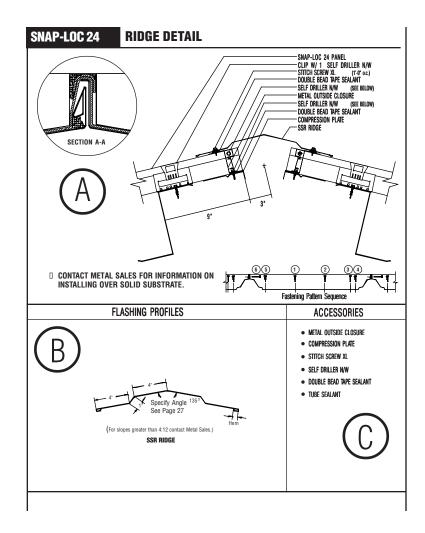
Addison, IL - (708) 543-5300 Carrollton, TX - (214) 416-6220 Akron, OH - (216) 762-0061

LMCurbs

Longview, TX - Phone (903) 297-2148

SNAP-LOC 24 CONDITION DETAIL EXPLANATION

The following pages depict Metal Sales suggested Snap-Loc 24 details and are for illustration purposes only. These details may not be applicable to all conditions or designs.



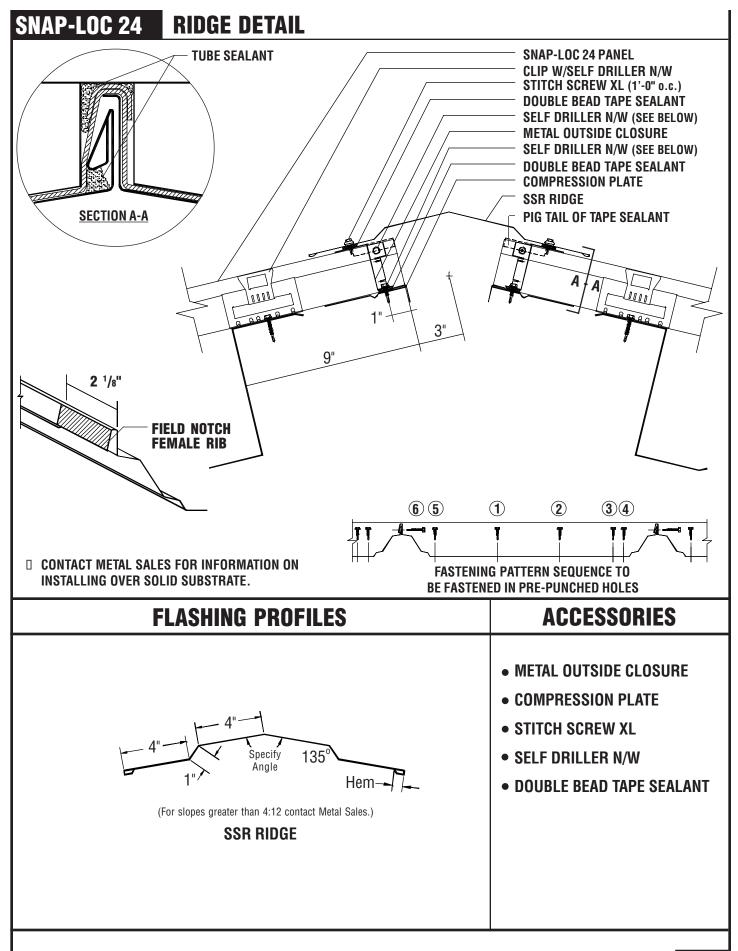
The condition pages contain a clear illustration of the various flashing details, illustrations of all necessary manufactured components, and a listing of the remaining components necessary to assemble the flashing condition.

(A)

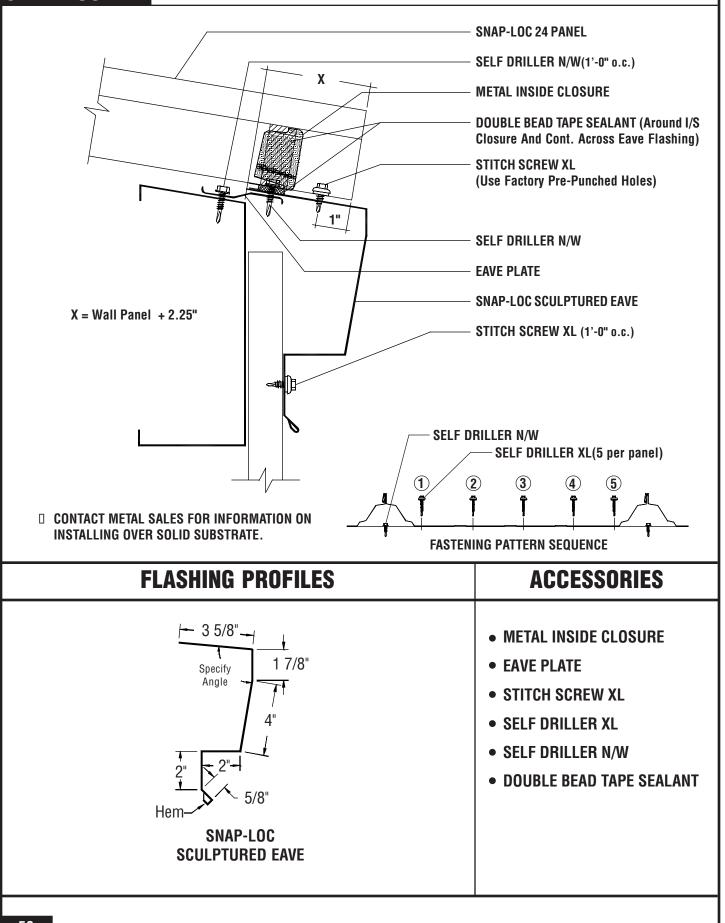
Refers to Metal Sales' suggested flashing condition detail. These illustrations show the correct placement for each component.

Refers to Metal Sales' standard manufactured flashing profiles required to assemble the flashing condition.

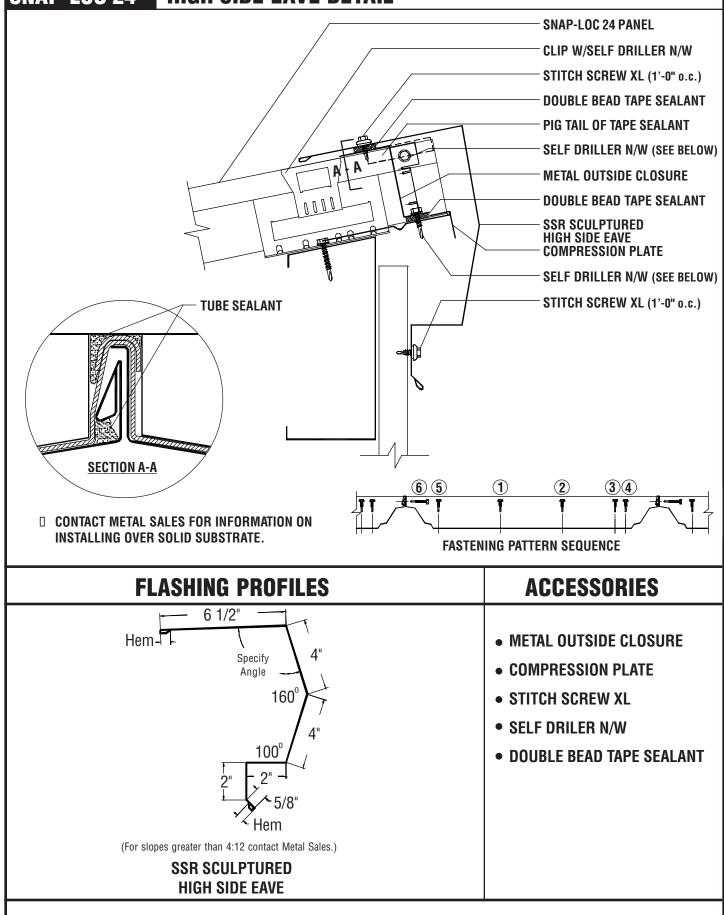
Refers to Metal Sales' accessories required to assemble the flashing condition.



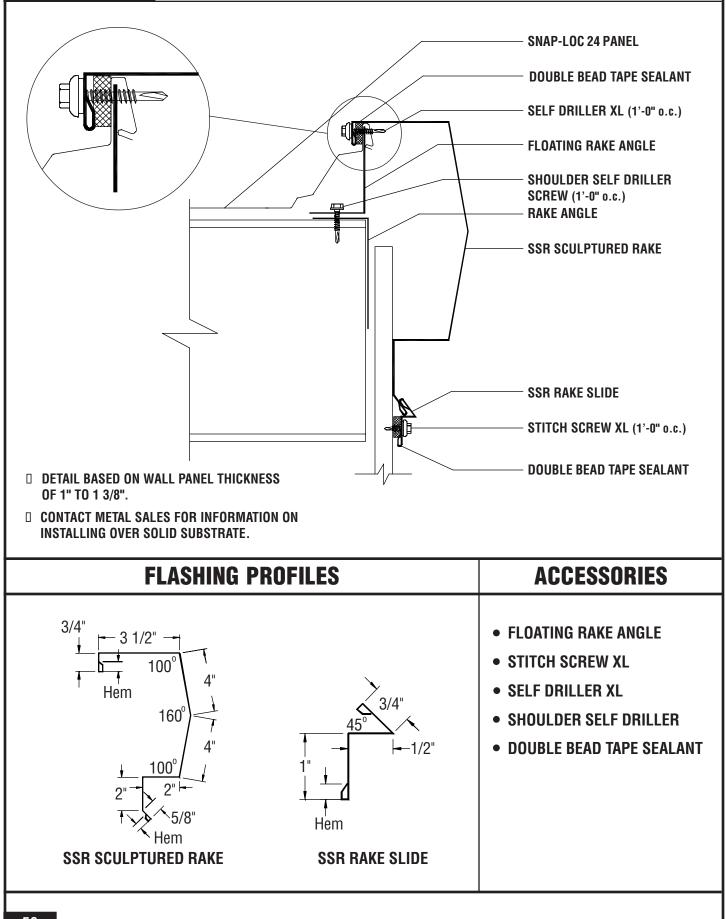
SNAP-LOC 24 EAVE DETAIL



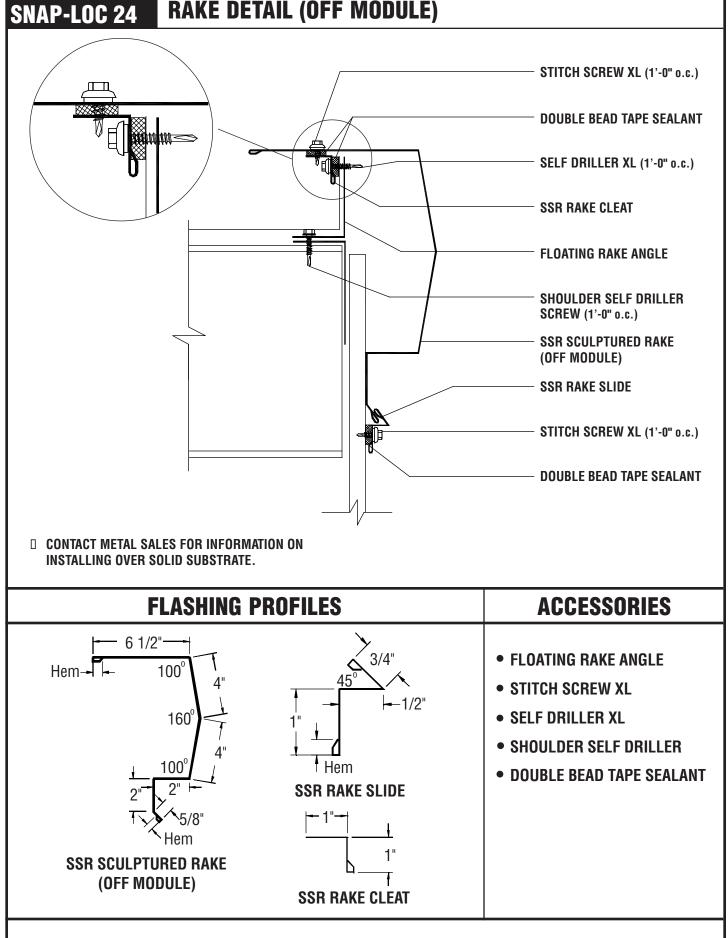
SNAP-LOC 24 HIGH SIDE EAVE DETAIL



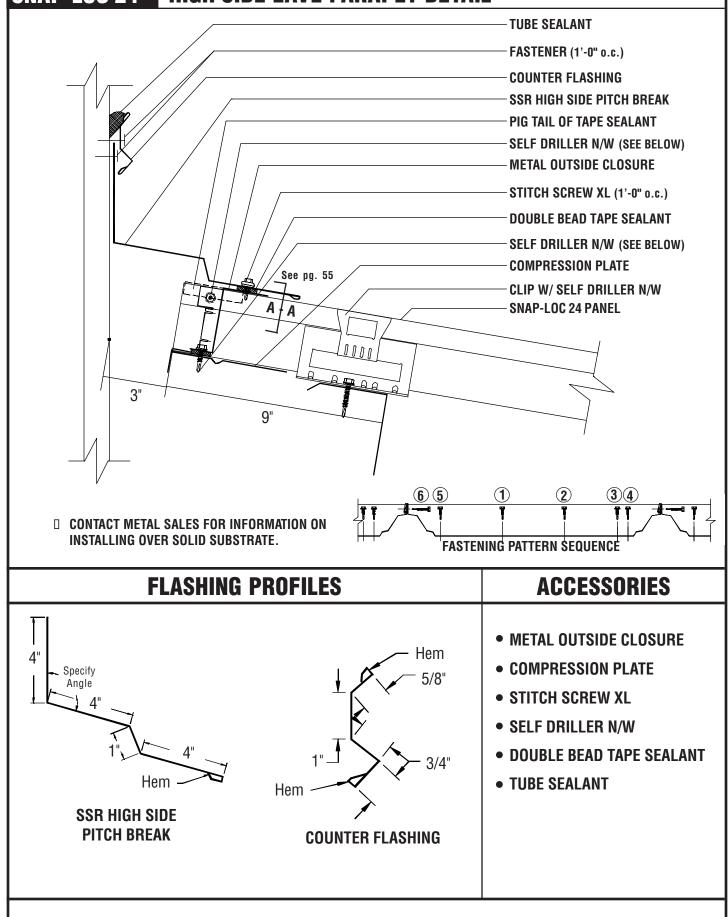
SNAP-LOC 24 RAKE DETAIL



RAKE DETAIL (OFF MODULE)

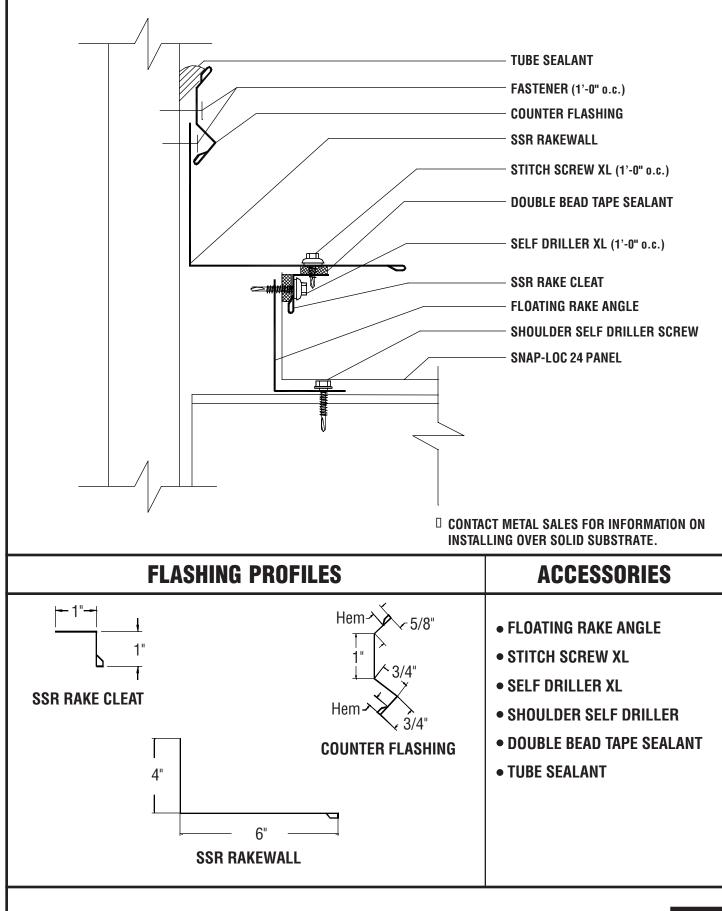


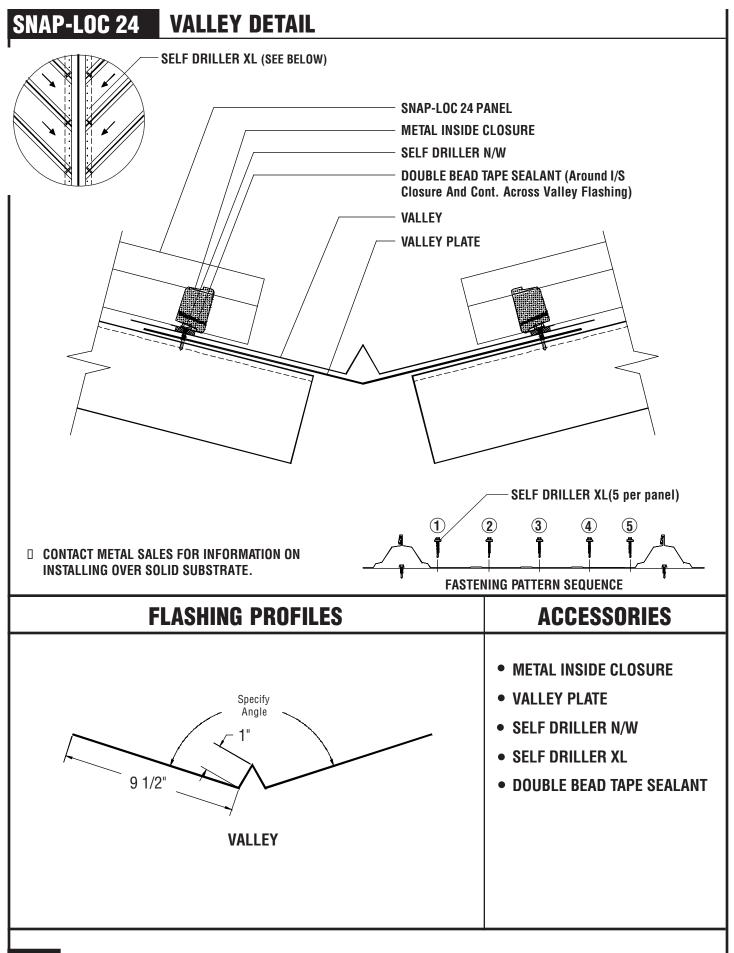
SNAP-LOC 24 HIGH SIDE EAVE PARAPET DETAIL

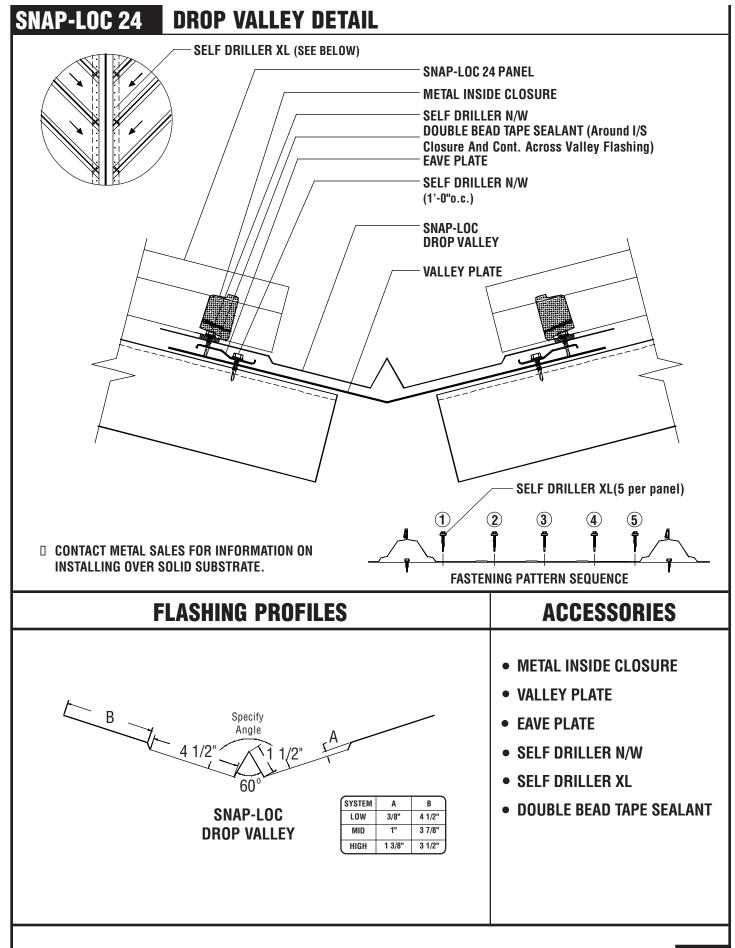


RAKE PARAPET DETAIL

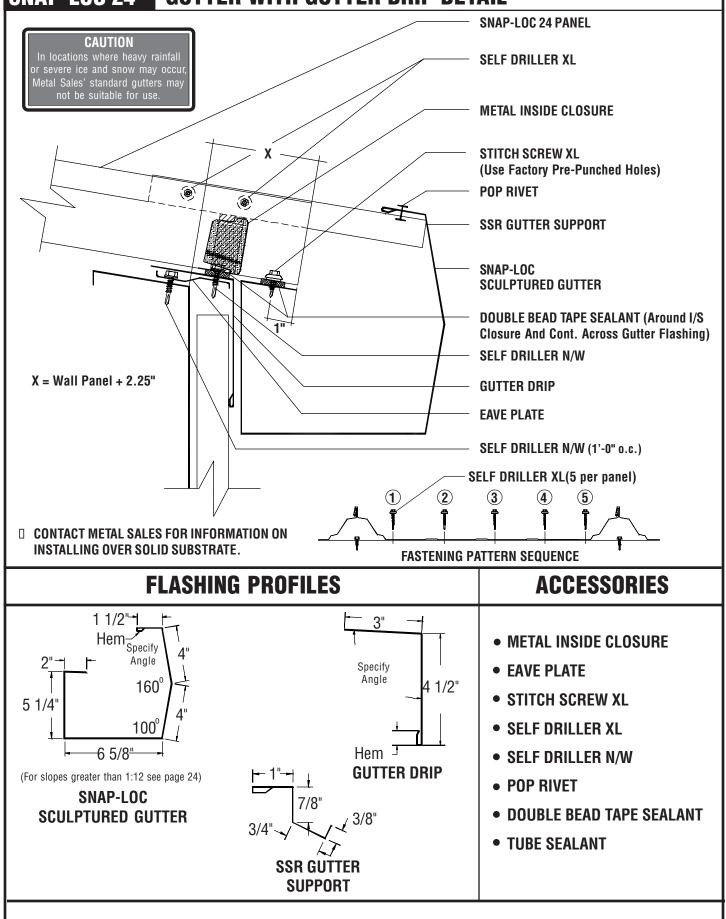
SNAP-LOC 24



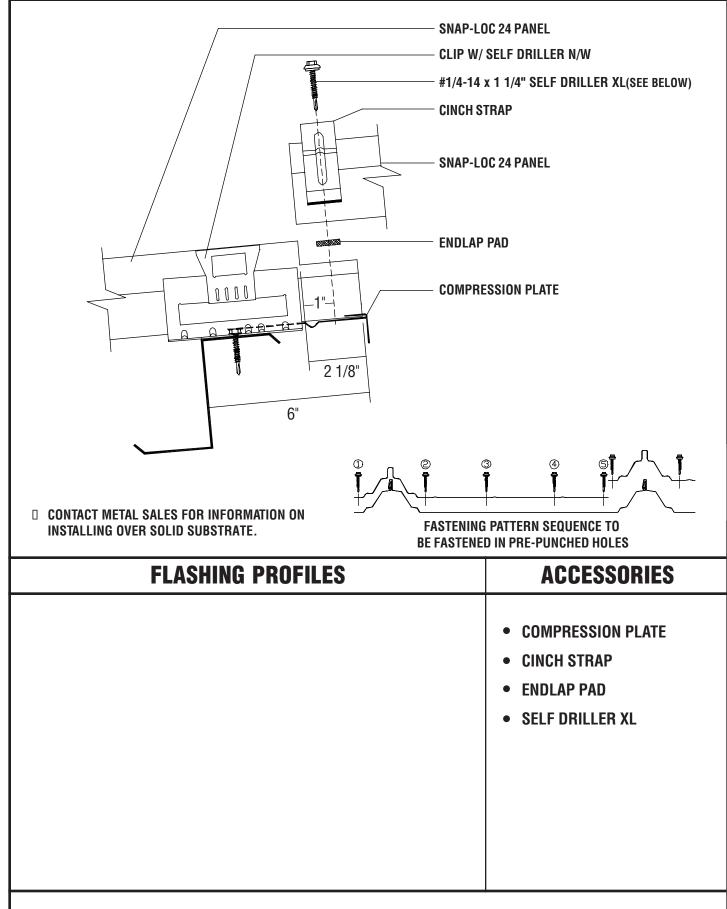




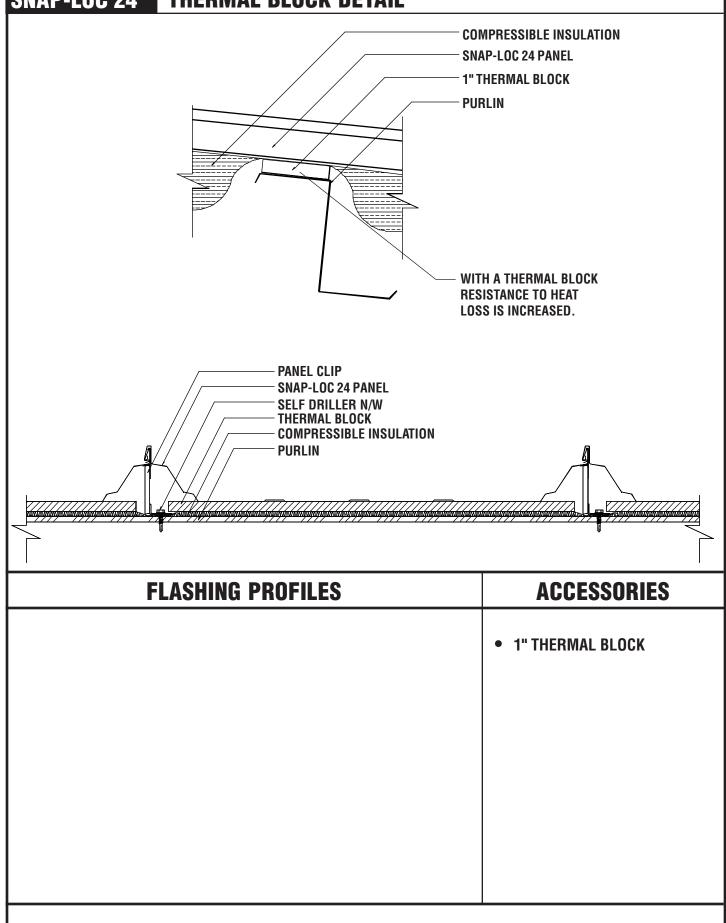
SNAP-LOC 24 GUTTER WITH GUTTER DRIP DETAIL



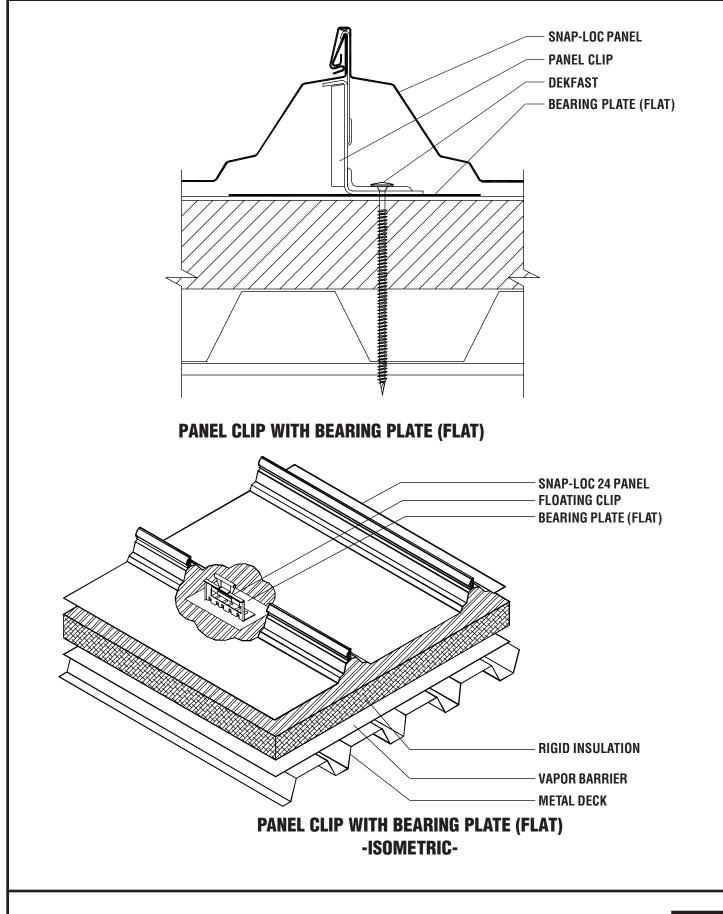
SNAP-LOC 24 ENDLAP DETAIL WITH CINCH STRAP



SNAP-LOC 24 THERMAL BLOCK DETAIL



SNAP-LOC 24 CLIP OVER RIGID INSULATION DETAIL



SNAP-LOC 24 CARE AND MAINTENANCE

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

Dirt pickup may cause apparent discoloration of the paint when it has been exposed in some dirt laded atmospheres 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 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 Tide 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 abrade 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. However, mildew can grow on dirt and spore deposits in some cases. 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.