

IMPORTANT NOTICE

READ THIS MANUAL COMPLETELY PRIOR TO BEGINNING THE INSTALLATION OF THE **SUPERLOK**[®] ROOFING SYSTEM. THE MANUFACTURER DETAILS MUST BE FOLLOWED AS A MINIMUM TO INSURE APPROPRIATE WARRANTIES WILL BE ISSUED.

ALWAYS INSPECT EACH AND EVERY PANEL AND ALL ACCESSORIES BEFORE INSTALLATION. NEVER INSTALL ANY PRODUCT IF ITS QUALITY IS IN QUESTION. NOTIFY MBCI IMMEDIATELY IF ANY PRODUCT IS BELIEVED TO BE OUT OF TOLERANCE, SPECIFICATION OR HAS BEEN DAMAGED DURING SHIPMENT.

IF THERE IS A CONFLICT BETWEEN PROJECT INSTALLATION DRAWINGS PROVIDED OR APPROVED BY THE MANUFACTURER AND DETAILS IN THIS MANUAL, PROJECT INSTALLATION DRAWINGS WILL TAKE PRECEDENCE.

Ice Dam Disclaimer

MBCI designs it's standing seam roofs to meet the load requirements dictated by governing codes and project specifications, including applicable snow loads. However, MBCI expressly disclaims responsibility for weathertightness or roof point loading issues or other hazards resulting from ice dam situations. Any time ice and snow can melt on the main body of the roof and refreeze at the eave or in the shadow of an adjacent wall, an ice dam situation may develop. In addition to local climate, ice dam formation is affected by many other factors, including but not limited to, roof insulation R value, roof panel color, interior temperature of building, heater location in building, eave overhangs, parapet walls, shading of building roof areas from adjacent trees, parapets, buildings, etc. These factors are design and maintenance issues and are outside the control of MBCI. MBCI specifically disclaims any liability for damage due to ice dam formation, although the following issues should be taken into consideration concerning standing seam roofs installed in freezing climates:

- Always use field seamed panels. These machine-folded seams are more durable when subjected to occasional icing.
- Eliminate "cold" eave overhangs and parapet walls from the building design. Roof overhangs outside the heated envelope of the building will tend to be colder than the roof areas over the heated envelope. Simple roof designs are preferred. Parapet walls at the eave allow ice and snow to collect due to shading effects and the lower roof temperatures caused thereby.
- Make sure the interior of the building is adequately insulated and the heating is properly distributed. Inadequate
 insulation in the roof and/or improper heat distribution causes heat flow though the main body of the roof. On days
 when the temperature is below freezing, this heat gain can cause ice and snow to melt and refreeze at the eave
 where the roof is colder.
- Lay out the building to prevent the eaves and other roof areas from being shaded during the winter. This may mean eliminating adjacent trees or reconsidering roof geometries.
- Consider using self-regulating heating cables at the eaves to mitigate the effects of ice dams.
- On building designs using attics, over-insulate the attic floor and provide adequate ventilation in the attic. This will reduce heat transfer through the roof resulting in more consistent roof temperatures between eave and field of roof.
- Increase the degree of diligence with respect to underlayment materials at roof areas prone to icing. This may include valleys, eaves, dormers and roof areas near dormers, parapets and the like where shading may occur.

For more information on this subject, please refer to the MCA's Metal Roof Design For Cold Climates manual.

The engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer

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Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, MBCI reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. To ensure you have the latest information available, please inquire or visit our website at www.mbci.com. Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles. Projects should be designed to conform to applicable building codes, regulations and accepted industry practices. If there is a conflict between this manual and project erection drawings, the erection drawings will take precedence.

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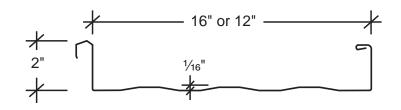
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GENERAL DESCRIPTION



Coverage Width - 16" or 12"

Minimum Slope - 1/2:12

Panel Attachment - Low, High (Fixed or Floating) or Utility (No insulation clearance)

Panel Substrate - Galvalume® (standard)

Gauge - Standard: 24; Optional: 22

Finishes - Smooth Striated (standard)* or Embossed Striated

Coatings - Signature[®] 200, Signature[®] 300, Signature[®] 300 Metallic

	Signature [®] 300 Metallic		Signatu	re [®] 300	Signatu	ire [®] 200	Galva Plu	alume Is [®]		
PRODUCT	24 Ga.	22 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.		
SuperLok [®] HS 16" Wide 12" Wide				:		:	•	•		

PRODUCT SELECTION CHART

Signature is a registered trademark of NCI Group, Inc. Galvalume Plus is a registered trademark of BIEC International.

- — Available in any quantity.
- Minimum quantity may be required.

Other colors, finishes, gauges, and materials available; please inquire. * Striated panels are standard to reduce "oil canning".

CAUTION

Diaphragm capabilities and purlin stability are not provided by manufactures SuperLok[®] roof system. Therefore, other bracing may be required to conform to A.I.S.C. or A.I.S.I. specifications.



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ROOFING SYSTEM

SuperLok[®]

ARCHITECT/ENGINEER INFORMATION

- 1. **SuperLok**[®] is a mechanically seamed roof system. **SuperLok**[®] panels are available in 12" and 16" widths. Factory applied mastic inside of female leg of panel is standard.
- SuperLok[®] is a structural roofing panel. This panel can be installed directly over purlins or bar joists. It does not require a solid substructure for support. The SuperLok[®] roof system has several different UL 90 construction numbers.
- 3. SuperLok[®] is recommended for roof slopes of ½:12 or greater.
- 4. Weathertight and aesthetically pleasing endlaps may be accomplished through the use of swaged and prepunched panels. 12" wide panels are not prepunched for endlaps. The manufacturer provides a prepunched back-up plate at the endlap for weathertightness. Swaged endlaps require the roof erection to proceed from right to left as viewed from the eave looking toward the ridge. Roofs with no endlaps and less than 6:12 may be erected from either direction.
- 5. Heavier gauges, striations and embossing minimize oil canning. Industry standard is a minimum 24 gauge material. Striations are standard to reduce oil canning. Oil canning is not a cause for rejection.
- 6. Substructure must be on an even plane from eave to ridge to avoid panel distortion (1/4" in 20', 3/8" in 40' tolerance).
- 7. All panels require end sealant at eave and valley conditions; however, for illustration purposes, this sealant is not shown on all drawings.
- 8. For proper fastener application, see Product Checklist.
- 9. All perimeter trim dimensions in this manual are based on a wall panel thickness of 1¹/₄" ("PBR" Panel). Any variation from this wall panel thickness may affect the perimeter trim dimensions.
- 10. The information in this manual is believed to be correct and accurate.
- 11. Drawings in this manual utilize the low floating clip. Clips are available in low or high fixed, low or high floating and utility.
- 12. Avoid restricting the thermal expansion and contraction of the **SuperLok**[®] panels. (ie: Do not attach panel to the substructure at both the eave and ridge.) However, panels must be attached to the substructure at one end to prevent their sliding downslope.
- 13. SuperLok[®] panels are not designed to be work platforms. Avoid any unnecessary foot traffic on SuperLok[®] panels. If foot traffic is required, protect the roof panels by using soft soled shoes and some type of roof pad, temporary deck, or walkway.
- 14. WARNING: Light transmitting panels are not designed or intended to bear the weight of any person walking, stepping, standing or resting on them. THE MANUFACTURER DISCLAIMS ANY WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, that any person can safely walk, step, stand or rest on or near these light transmitting panels or that they comply with any OSHA regulation.
- 15. A vapor retarder may be necessary to protect roofing components when high interior humidity is a factor. The need for a vapor retarder, as well as the type, placement and location should be determined by an architect or engineer. The following are examples of conditions that may require a vapor retarder: (A) Projects where outside winter temperatures below 40°F are anticipated and where average winter interior relative humidity of 45% or greater is expected. (B) Building usages with high humidity interiors, such as indoor swimming pools, textile manufacturing operations, food, paper or other wet-process industrial plants. (C) Construction elements that may release moisture after the roof is installed, such as interior concrete and masonry, plaster finishes and fuel burning heaters.
- 16. Typically, when wood decks are used, they are temporarily protected by the installation of a moisture barrier over the wood deck. If utility clips are to be used, the **SuperLok**[®] panel will lay tight to the wood deck. If tin tabs are used to attach the moisture barrier to the deck, they must be covered with duct tape or some other material to prevent them from rusting the back side of the panels. Also, plastic washers may "telegraph" through the panels.
- 17. Field cutting of the panels should be avoided where possible. If field cutting is required, the panels must be cut with nibblers, snips, or shears to prevent edge rusting. **Do not cut the panels with abrasive saw blades, grinders, or torches.**

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SuperLok[®]

IMPORTANT READ THIS FIRST

CAUTION

Application and design details are for illustration purposes only, and may not be appropriate for all environmental conditions or building designs. Projects should be engineered to conform to applicable building codes, regulations, and accepted industry practices.

CAUTION

The use of any field seaming machine other than that provided by the manufacturer will damage the panels and void all warranties and will void all engineering data.

Low Floating System - With or without 3/8" thermal spacer. See Insulation/Thermal Spacer Selection Chart below.

High Floating System - With %, %" or 1" thermal spacer. See Insulation/Thermal Spacer Selection Chart below.

Thermal calculations should be performed for each project to ensure that the thermal movement of the roof is not greater than the floating clip's capacity. Various densities of blanket insulation may affect the installation and or the appearance of a metal roof system. The installer is responsible for selecting the proper clip and thermal spacer for their conditions.

Insulation/Thermal Spacer Selection Chart						
Insulation Thickness Low System High System						
No Insulation	3%" Thermal Spacer	High System Not Recommended				
3" Insulation	Thermal Spacer Not Recommended	5%" Thermal Spacer				
4" Insulation	Thermal Spacer Not Recommended	3/8" Thermal Spacer				
6" Insulation	Low System Not Recommended	Thermal Spacer Not Recommended				

NOTES:

1. As with all standing seam roof systems, sound attenuation (example: blanket insulation) is required between the panel and the substructure to prevent "roof rumble" during windy conditions. Some composite roof systems may require additional acoustical consideration to ensure that thermal vibration noises are isolated from the building interior. Contact your architect and/or engineer for proper acoustical design.

Thermal Spacer Disclaimer

The above thermal spacer chart is intended to be used as a general guideline only. Because of the various densities of insulation currently available, the manufacturer cannot guarantee that this chart will be accurate in all situations. Further, the manufacturer does not specifically require that the roofing contractor use thermal spacers with it's **SuperLok**[®] roof system. However, please review the following information:

- Although the manufacturer does not require a thermal spacer, the architect or building owner may.
- In certain environments, the compression of the fiberglass insulation, without a thermal spacer, may create a thermal break which can cause condensation to form on the purlins/joists.
- On uninsulated buildings, eliminating the thermal spacer: (1) may cause "roof rumble" and (2) you may encounter problems holding panel module.
- When a high clip is used without a thermal spacer: (1) you may encounter problems holding panel module and (2) foot traffic on the panel ribs may result in bent clips.
- Using a low clip with too much insulation or too thick of a thermal spacer: (1) may cause "purlin read" (2) may cause difficulty in properly installing the panel side laps, and (3) you may encounter problems holding panel module.







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UNDERWRITERS LABORATORIES APPROVAL SuperLok®

Houston, TX 877-713-6224

Atlanta, GA 877-512-6224

Atwater, CA 800-829-9324

Dallas, TX 800-653-6224

Adel, GA 888-446-6224

Construction Number	Panel Width (In.)	Gauge	Clip Type	Clip Spacing	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-580 Rating
90	16"	24 min.	*	5'-0 1⁄16"	Open Framing	Class 4	Class A	Class 90
176	16"	24 min.	N/A	5'-0 1⁄4"	Open Framing	Class 4	Class A	Class 90
180	16"	24 min.	**	5'-0 1⁄4"	Open Framing	Class 4	Class A	Class 90
238B	16"	24 min.	**	2'-6"	Composite System	Class 4	Class A	Class 90
437	16"	24 min.	**	5'-0"	Plywood	Class 4	Class A	Class 90
449	16"	24 min.	*	5'-0"	Open Framing	Class 4	Class A	Class 90
451	16"	24 min.	*	2'-0"	Composite System	Class 4	Class A	Class 90
452	16"	24 min.	*	2'-0"	Composite System	Class 4	Class A	Class 90
487	16"	24 min.	**	4'-0"	Composite System	Class 4	Class A	Class 90

* Fixed or Floating (high or low)

** Fixed or Floating (high, low, or utility)

NOTES:

- 1. Tests procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
- 2. A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results.
- 3. The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263 when installed over a non-combustible substrate. A Class C fire rating can be obtained over a combustible deck.
- The panel system qualifies under the following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P717, P720, P722, P726, P731, P734, P736, P801, P815, and P819. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
- 5. SuperLok[®] panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

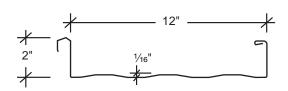
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SuperLok[®]





SECTION PROPERTIES								
NEGATIVE BENDING POSITIVE BENDING								ING
PANEL	Fy	WEIGHT	lxe	e Sxe Maxo Ixe Sxe				
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.47	0.0756	0.0711	2.1307	0.1667	0.1025	3.0693
22	50	1.83	0.1053	0.1027	3.0751	0.2231	0.1387	4.1551

NOTES:

1. All calculations for the properties of SuperLok panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.

- 2. Ixe is for deflection determination.
- 3. Sxe is for bending.
- 4. Maxo is allowable bending moment.
- 5. All values are for one foot of panel width.

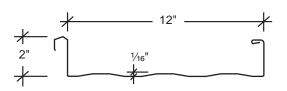


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SuperLok[®]

SuperLok® Panel



ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 Gauge (Fy = 50 KSI)									
SPAN TYPE	LOAD TYPE	SPAN IN FEET							
		2.5	3.0	3.5	4.0	4.5	5.0	5.5	
SINGLE	LIVE	216.0	180.0	154.3	127.9	101.0	81.8	67.6	
2-SPAN	LIVE	216.0	157.8	116.0	88.8	70.1	56.8	47.0	
3-SPAN	LIVE	216.0	180.0	144.9	111.0	87.7	71.0	58.7	
4-SPAN	LIVE	216.0	180.0	135.3	103.6	81.9	66.3	54.8	

22 Gauge (Fy = 50 KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET							
		2.5	3.0	3.5	4.0	4.5	5.0	5.5	
SINGLE	LIVE	313.0	260.8	223.6	173.1	136.8	110.8	91.6	
2-SPAN	LIVE	313.0	227.8	167.4	128.1	101.2	82.0	67.8	
3-SPAN	LIVE	313.0	260.8	209.2	160.2	126.5	102.5	84.7	
4-SPAN	LIVE	313.0	260.8	195.3	149.5	118.2	95.7	79.1	

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.

- 2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
- 3. Allowable loads are applicable for uniform loading and spans without overhangs.
- 4. LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
- 5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
- 6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than the provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.
- 7. This material is subject to change without notice. Please contact MBCI for the most current data.

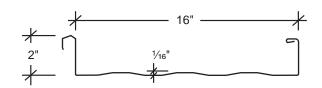
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SuperLok[®]

SuperLok[®] Panel



SECTION PROPERTIES								
			NEGATIVE BENDING POSITIVE BENDING					
PANEL	Fy	WEIGHT	Ixe	Sxe	Махо	Ixe	Sxe	Махо
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.38	0.0574	0.0538	1.6096	0.1324	0.0779	2.3324
22	50	1.72	0.0794	0.0776	2.325	0.1779	0.1057	3.1654

NOTES:

1. All calculations for the properties of SuperLok panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.

2. Ixe is for deflection determination.

3. Sxe is for bending.

4. Maxo is allowable bending moment.

5. All values are for one foot of panel width.

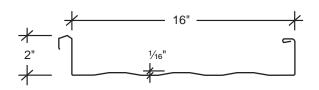


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SuperLok[®]

SuperLok® Panel



ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 Gauge (Fy = 50 KSI)									
	LOAD TYPE	SPAN IN FEET							
SPAN TYPE		2.5	3.0	3.5	4.0	4.5	5.0	5.5	
SINGLE	LIVE	162.0	135.0	115.7	97.2	76.8	62.2	51.4	
2-SPAN	LIVE	162.0	119.2	87.6	67.1	53.0	42.9	35.5	
3-SPAN	LIVE	162.0	135.0	109.5	83.8	66.2	53.7	44.3	
4-SPAN	LIVE	162.0	135.0	102.2	78.3	61.8	50.1	41.4	

22 Gauge (Fy = 50 KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.5	3.0	3.5	4.0	4.5	5.0	5.5
SINGLE	LIVE	233.4	194.5	166.7	131.9	104.2	84.4	69.8
2-SPAN	LIVE	233.4	172.2	126.5	96.9	76.5	62.0	51.2
3-SPAN	LIVE	233.4	194.5	158.2	121.1	95.7	77.5	64.0
4-SPAN	LIVE	233.4	194.5	147.7	113.1	89.3	72.4	59.8

NOTES:

1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.

2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."

3. Allowable loads are applicable for uniform loading and spans without overhangs.

 LIVE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
 Panel pullover and Screw pullout capacity must be checked separately using the screws employed for

each particular application when utilizing this load chart.

6. The use of any field seaming equipment or accessories including but not limited to clips, fasteners, and support plates other than the provided by the manufacturer may (eave, backup, rake, etc.) damage panels, void all warranties and will void all engineering data.

7. This material is subject to change without notice. Please contact MBCI for the most current data.

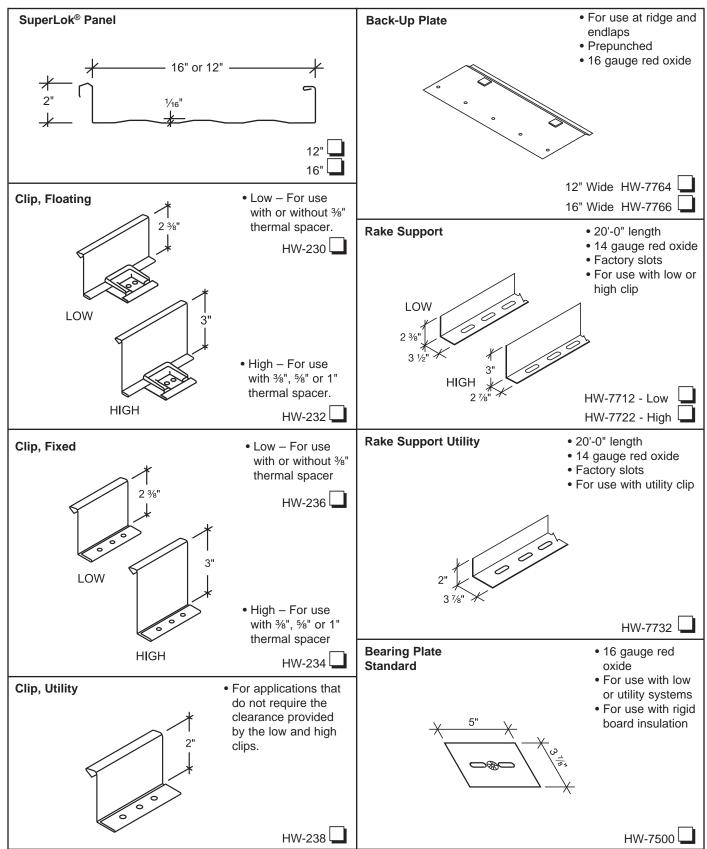
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GENERAL INFORMATION

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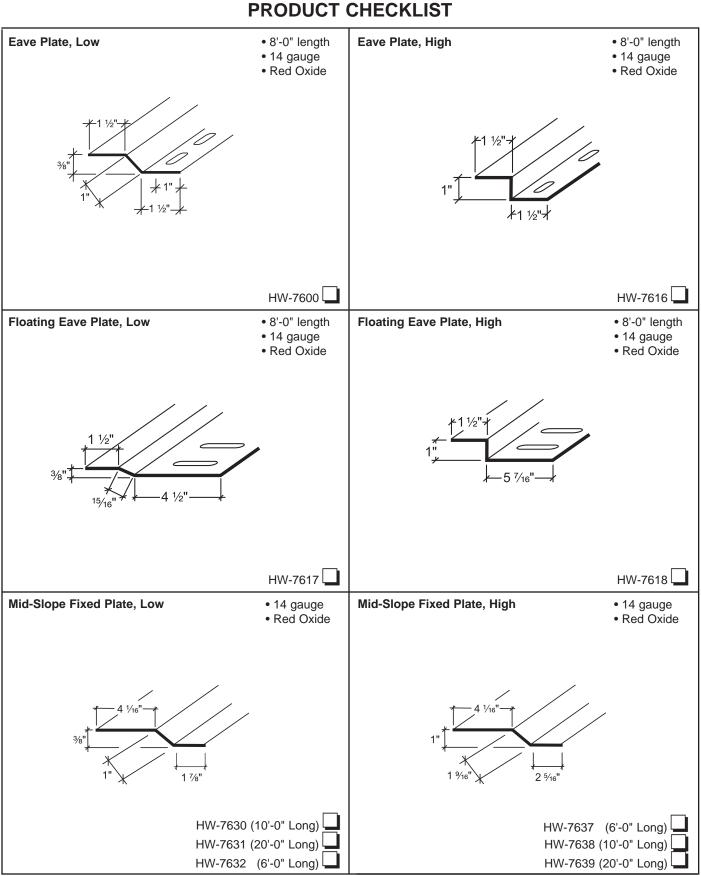




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GENERAL INFORMATION

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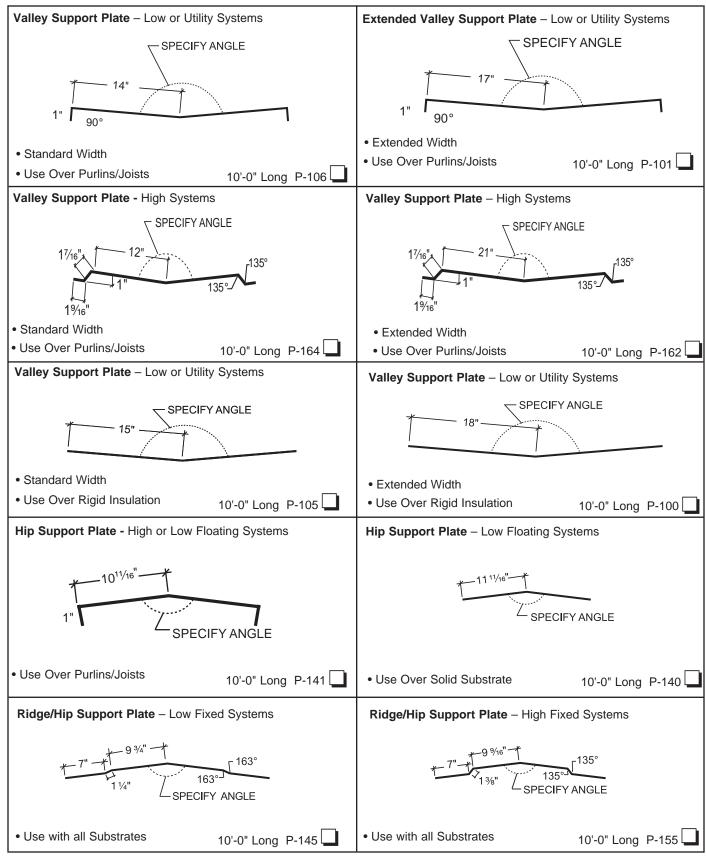
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GENERAL INFORMATION

PRODUCT CHECKLIST

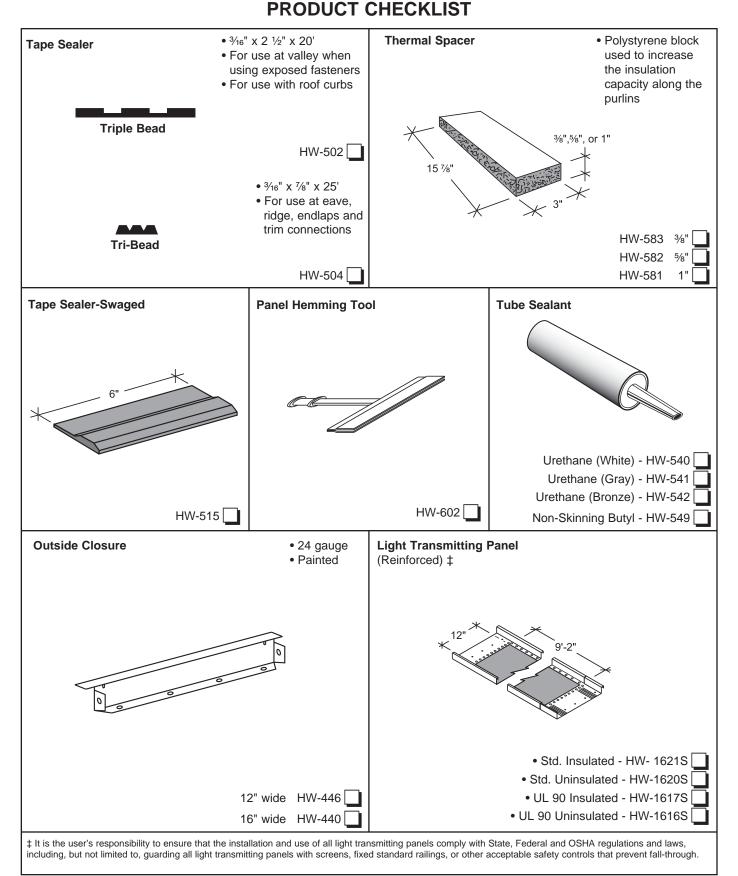




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GENERAL INFORMATION





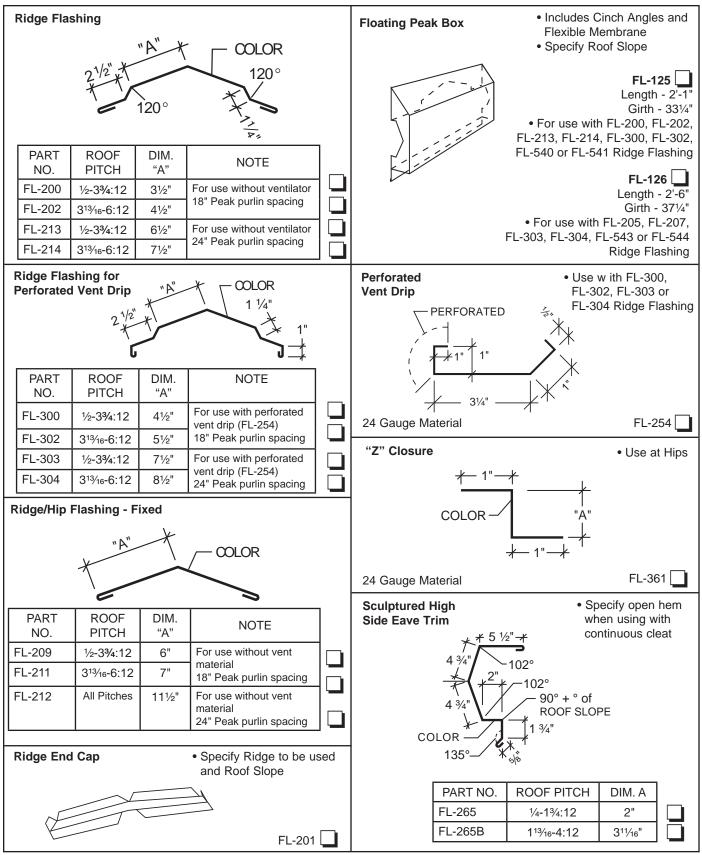
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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GENERAL INFORMATION

PRODUCT CHECKLIST



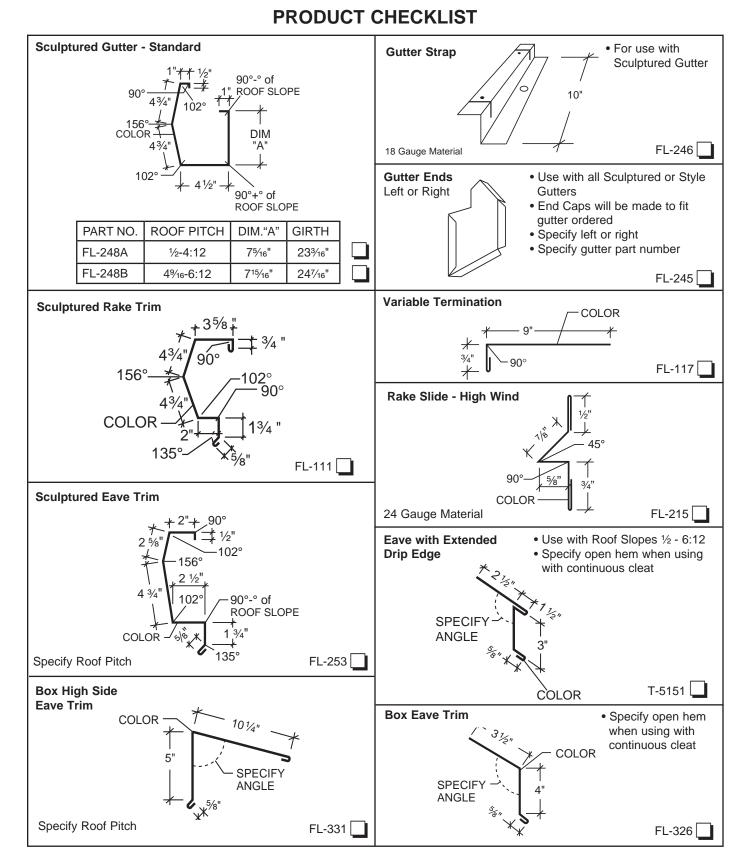
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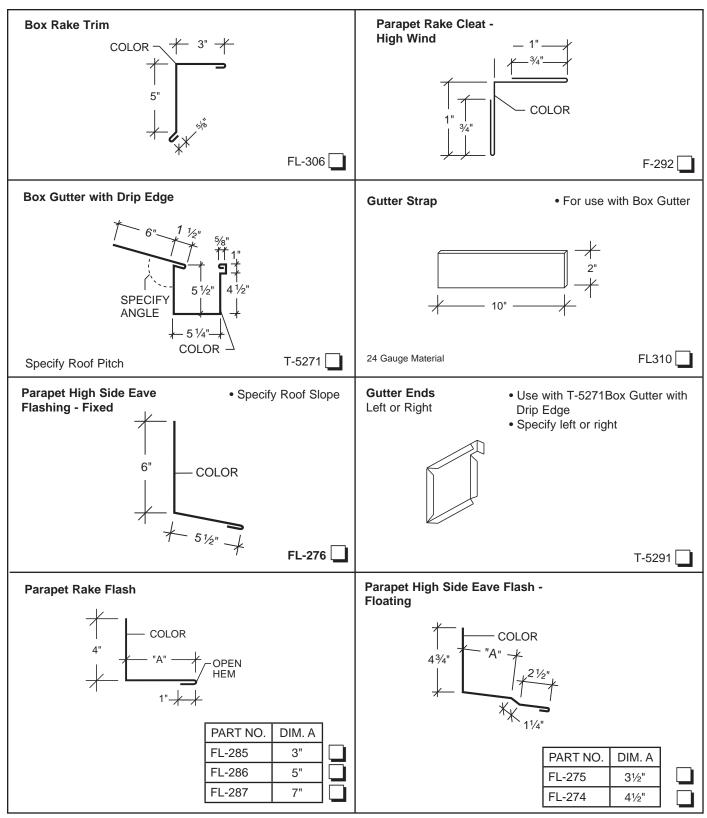
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GENERAL INFORMATION

PRODUCT CHECKLIST



NOTE: All trim to be 26 gauge material unless noted. Refer to current price book for part numbers and descriptions.



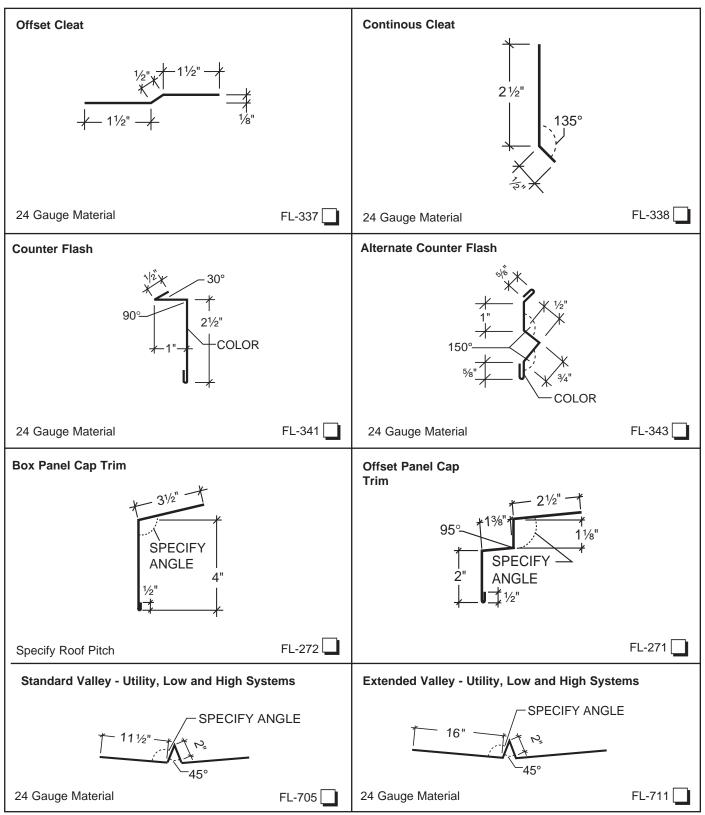
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

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PRODUCT CHECKLIST



Fastener #1B

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• Clip to purlin (Up to 4"

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Fastener #1E



• Panel to eave plate or

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GENERAL INFORMATION

PRODUCT CHECKLIST

	insulation between panel and purlin)		 eave strut Rake trim to roof panel Standard endlaps Panel to valley plate Outside closure to panel with back-up plate or support plate
		¹ /4"-14 x 1 ¹ /4" Long Life Self Drill ⁵ /16" Hex Washer Head, with sea	
1⁄4"-14 x 1 1⁄4" Self Driller 5⁄16" Hex Washer Head with no wa	isher	Fastener #2A	 Use in place of Fasteners #1E, #2B and #4 at all strip outs
Fastener #1F	 Clip to purlin (Over 4" insulation between panel and purlin) 		
		17 x 1" Long Life AB 5⁄16" Hex Washer Head, with seal	ing washer
		Fastener #6A	Clip to joist
1/4"-14 x 1 1/2" Self Driller 5/16" Hex Head, with 5%" O.D. wash	• Endlap over plywood	Ennnunce	
		12-24 x 1 $\frac{1}{4}$ " Tek [®] 5 Self Driller $\frac{5}{16}$ " Hex Washer Head, with no v	washer
1/4"-14 x 1" Long Life AB	_	Fastener #4	 Ridge and other flashing to outside closure Gutter to panel Gutter to strap Trim to trim connections Sculptured eave trim to panel
3/8" Hex Washer Head, with sealing Fastener #5	e washer Let a support to purlin	1⁄4"-14 x 7⁄%" Long Life Lap Tek [®] 5⁄າຣ" Hex Washer Head, with sea	
	(Floating System Only)Floating eave plate to eave strut	Fastener #11	 Special application fastener For attaching trim to masonary walls
$\frac{1}{4}$ "-14 x 1 $\frac{1}{4}$ " Shoulder Tek [®] 2 Se $\frac{5}{16}$ " Hex Washer Head, with no wa		1/4" x 1 1/4" Nail Drive Masonry A	nchor



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GENERAL INFORMATION

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PRODUCT CHECKLIST Fastener #12A · Rake angle to purlin Fastener #13A Offset cleat to plywood · Hip and valley support · Rake angle to plywood plates to purlins Valley flashing to valley support plate 12 x 1" #2 Phillips/Square Drive Pancake Head Driller 12 x 1" #2 Phillips/Square Drive Pancake Type "A" Trim to trim connections Fastener #14 Fastener #14A Outside closure to angle on floating hip detail Stainless Steel Pop Rivet 1/8" diameter x 3/16" grip range Stainless Steel Pop Rivet 1/8" diameter x 3/8" grip range · Eave plate to eave strut Fastener #226 Dekstrip to Expansion Fastener #1 · Mid-slope fixed plate to Ridge/Expansion Lap purlin Rake support to angle (Fixed system only) 1/4"-14 x 1" Self Driller 3/16" x 9/16" Rivet Cendalum ٦ 5/16" Hex Head, with 5%" O.D. washer Closed End Rivet · Panel clips to wood deck Fastener #18 Fastener #46 · Panel endlaps over solid • Outside closure to panel substrate over wood deck 1/4"-14 x 5%" Long Life Type B with washer 14 x 1" Type A **Deck Screw** • 18 Gauge maximum 5/16" Hex Washer Head, with 5/8" O.D. washer drilling thickness Fastener #228 Dekstrip to Expansion Ridge/Expansion Lap Fastener #209 14 x 2" Fastener #210 14 x 3" Fastener #211 14 x 4" 10 x 1/2" Aluminum Grommet Washer Fastener #15D 14 x 6"

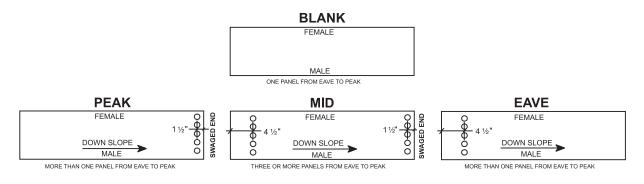
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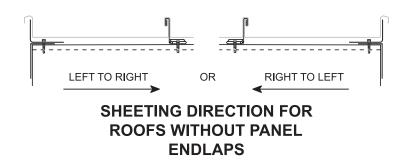
GENERAL INFORMATION

SuperLok[®] Panel Orientation



INSTALLATION GUIDELINES

- I. Jobsite Storage and Handling
 - A. Check the shipment against the shipping list.
 - B. Damaged material must be noted on Bill of Lading.
 - C. Panel crates should be handled carefully. A spreader bar of appropriate length is recommended for hoisting.
 - D. Check to see that moisture has not formed inside the bundles during shipment. If moisture is present, panels should be uncrated and wiped dry, then restacked and loosely covered so that air can circulate between the panels.
- II. Application Checklist
 - A. Check substructure for proper alignment and uniformity to avoid panel distortion.
 - B. Periodic check of panel alignment is crucial to proper panel alignment.
 - C. If there is a conflict between this manual and the project erection drawings, the erection drawings will take precedence.
- III. LTP Warning
 - A. WARNING: Light transmitting panels are not designed or intended to bear the weight of any person walking, stepping, standing or resting on them. THE MANUFACTURER DISCLAIMS ANY WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, that any person can safely walk, step, stand or rest on or near these light transmitting panels or that they comply with any OSHA regulation.



RIGHT TO LEFT ONLY

SHEETING DIRECTION FOR ROOFS WITH PANEL ENDLAPS



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GENERAL INFORMATION

SuperLok[®]

PREPARATORY REQUIREMENTS

- For the purpose of this manual, we have assumed that the SuperLok[®] roof will be installed over purlins and an eave gutter will be installed. Please refer to the Design Section of the manuals for details of SuperLok[®] over other substrates.
- 2. A rake angle or an alternate structural flat surface must be installed on top of the purlins to accept the rake support.
- 3. All primary and secondary framing must be erected, plumbed and squared with bolts tightened according to accepted building practices.
- 4. The substructure (eave to ridge) must be on plane (1/4" in 20' or 3%" in 40' tolerance).
- 5. It is critical that the purlins or bar joists at the ridge and endlaps be located exactly as detailed and that they are straight from rafter to rafter. Any mislocation or bowing of these members can cause the fasteners at the ridge or endlaps to foul as the panels expand and contract.
- 6. The manufacturer recommends the use of a screw gun with a speed range of 0-2000 RPM to properly install all fasteners referenced in this manual. Tools rated to 4000 RPM should never be used for self drilling fasteners typically supplied with metal roof and wall systems.
- 7. Field cutting of the panels should be avoided where possible. If field cutting is required, the panels must be cut with nibblers, snips, or shears to prevent edge rusting. Do not cut the panels with abrasive saw blades, grinders, or torches.

CAUTION

Avoid restricting the thermal expansion and contraction of the **SuperLok**[®] panels. (i.e., Do not attach panel to the substructure at either the eave and ridge.)

WARNING: Light transmitting panels are not designed or intended to bear the weight of any person walking, stepping, standing or resting on them. THE MANUFACTURER DISCLAIMS ANY WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, that any person can safely walk, step, stand or rest on or near these light transmitting panels or that they comply with any OSHA regulation.

NOTE

It is the responsibility of the erector to install this roof using safe construction practices that are in compliance with OSHA regulations. The manufacturer is not responsible for the performance of this roof system if it is not installed in accordance with the instructions shown in this manual. Deviations from these instructions and details must be approved in writing by the manufacturer.

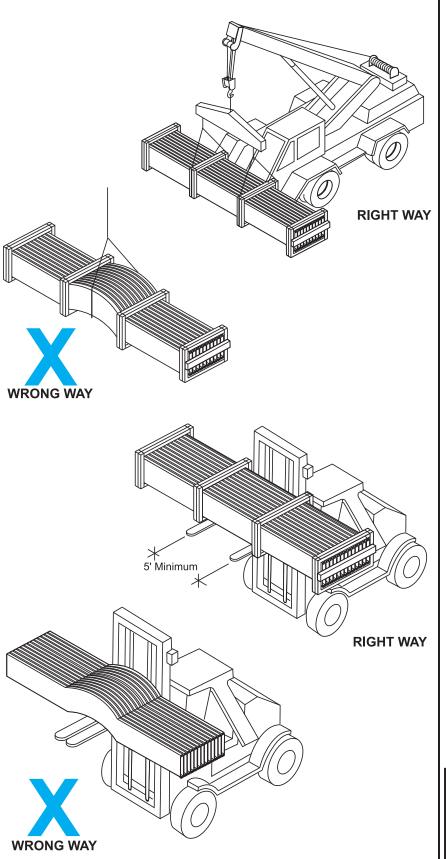
CAUTION

Diaphragm capabilities and purlin stability are not provided by the **SuperLok**[®] roof system. Therefore, other bracing may be required.

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UNLOADING

GENERAL INFORMATION

Upon receiving material, check shipment against shipping list for shortages and damages. The manufacturer will not be responsible for shortages or damages unless they are noted on the shipping list.

Each bundle should be lifted at its center of gravity. Where possible, bundles should remain banded until final placement on roof. If bundles must be opened, they should be retied before lifting.

When lifting bundles with a crane, a spreader bar and nylon straps should be used. **NEVER USE WIRE ROPE SLINGS, THEY WILL DAMAGE THE PANELS.**

When lifting bundles with a forklift, forks must be a minimum of five feet apart. Do not transport open bundles. Drive slowly when crossing rough terrain to prevent panel buckling.

CAUTION

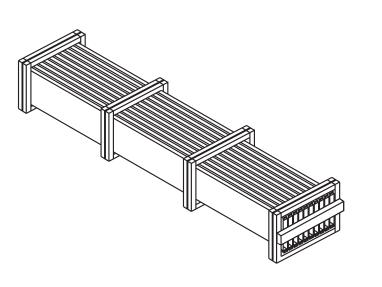
Improper unloading and handling of bundles and crates may cause bodily injury or material damage. The manufacturer is not responsible for bodily injuries or material damages during unloading and storage.



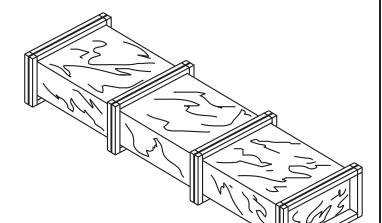
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UNLOADING (Continued)



GENERAL INFORMATION



BLOCK AND BAND

This method of bundling is used for orders that are to be picked up by the customer or shipped by common carrier. 2 x 4's are strapped under the bundles to allow access for straps or a forklift. Bundles less than 25' long may be handled by a forklift. The forklift should have at least 5' between forks. Bundles longer than 25' should be lifted utilizing a spreader bar with nylon straps.

FULL CRATE

This method is used on all overseas shipments or by customer's order. Handling requirements are the same as block and band.

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GENERAL INFORMATION

HANDLING/PANEL STORAGE

Standing on one side of the panel, lift it by the seam. If the panel is over 10' long, lift it with two or more people on one side of the panel to prevent buckling.

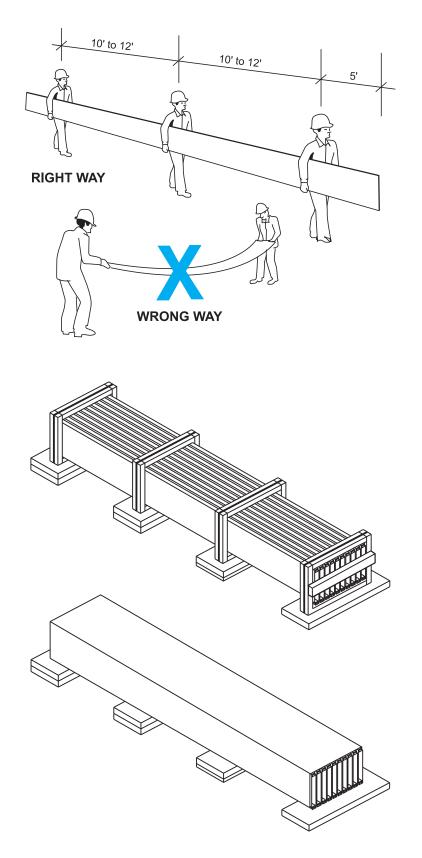
Do not pick panels up by the ends.

NOTE:

Protective gloves and safety glasses should always be used while handling panels. OSHA safety regulations must be followed at all times.

Store bundled sheets off the ground sufficiently high to allow air circulation beneath bundle and to prevent rising water from entering bundle. Slightly elevate one end of bundle. Prevent rain from entering bundle by covering with tarpaulin, making provision for air circulation between draped edges of tarpaulin and the ground. **PROLONGED STORAGE OF SHEETS IN A BUNDLE IS NOT RECOMMENDED.** If conditions do not permit immediate erection, extra care should be taken to protect sheets from white rust or water marks.

Check to see that moisture has not formed inside the bundles during shipment. If moisture is present, panels should be uncrated and wiped dry, then restacked and loosely covered so that air can circulate between the panels.

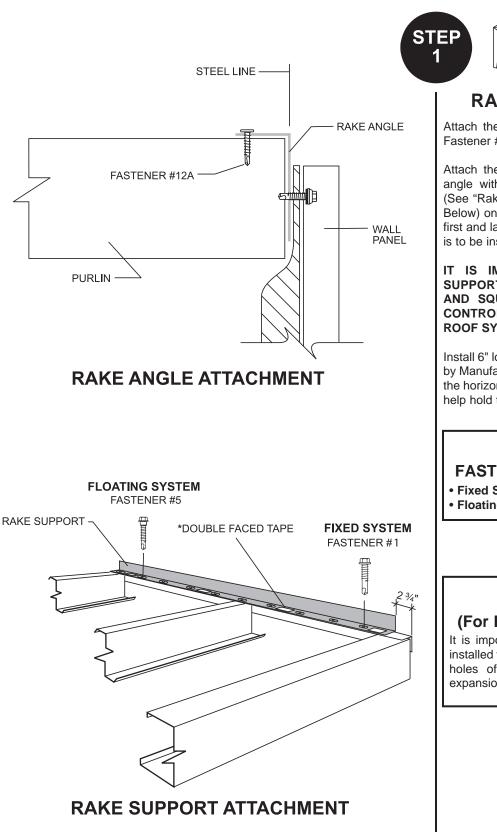




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INSTALLATION SEQUENCE



RAKE ATTACHMENT

Attach the rake angle to the purlin with the Fastener #12A.

Attach the rake support on top of the rake angle with the proper self-drilling fasteners (See "Rake Support Fastener Requirements" Below) on 2'-0" centers with a fastener in the first and last prepunched slot. The vertical leg is to be installed flush with the steel line.

IT IS IMPORTANT THAT THE RAKE SUPPORT IS INSTALLED STRAIGHT AND SQUARE WITH THE EAVE AS IT CONTROLS THE ALIGNMENT OF THE ROOF SYSTEM.

Install 6" long pieces of double faced tape (not by Manufacturer) on 3'-0" centers to the top of the horizontal leg of the rake support. This will help hold the insulation in place at the rake.

RAKE SUPPORT FASTENER REQUIREMENTS • Fixed System - Fastener #1

• Floating System - Fastener #5

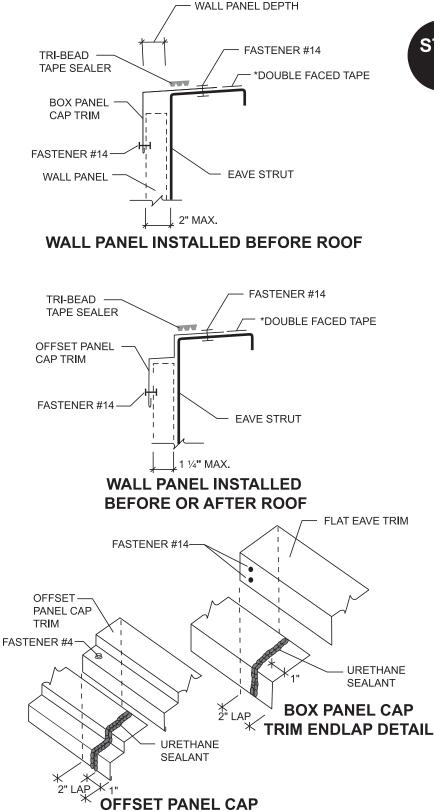
CAUTION (For Floating Systems Only)

It is important that shoulder fasteners are installed through the CENTER of the slotted holes of the rake support to allow for expansion and contraction.

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TRIM ENDLAP DETAIL



INSTALLATION SEQUENCE

LOW SYSTEM EAVE

For applications in which the wall panels have already been erected, install box panel cap trim or offset panel cap trim to the eave strut with Fastener #14. Eave trim must be pulled tight to wall panels with Fastener #14 before fastening to eave strut. For applications in which the wall panels have not been erected, use offset panel cap trim. If using panel cap trim, it will space itself for the wall offset panels. Use three Fastener #14 per trim piece.

Install Tri-Bead tape sealer along top of the trim.

For vinyl insulation, install double faced tape (not by Manufacturer) along the length of the top leg of the trim. Double faced tape must be upslope from Tri-Bead tape sealer.

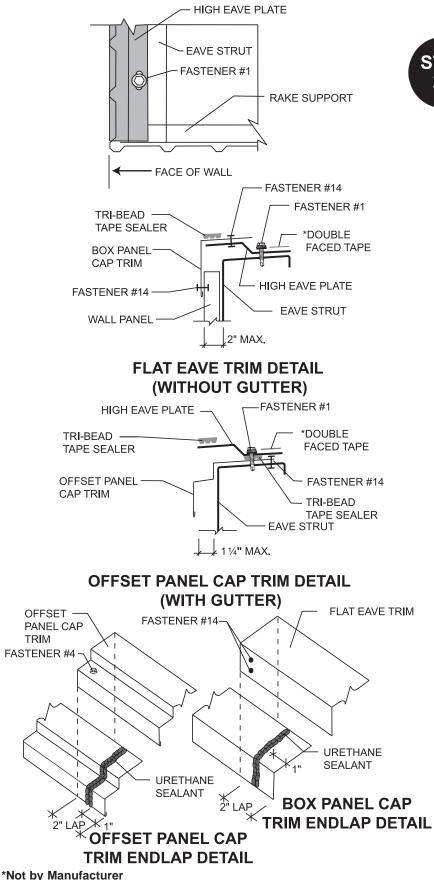
Lap trim 2". Apply two beads of urethane sealant between the trim pieces, approximately 1" from the end of the bottom piece. Attach trim laps in flat eave trim with Fastener #14. Attach trim laps on panel cap trim with Fastener #4.



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INSTALLATION SEQUENCE



STEP 2A

HIGH SYSTEM EAVE Wall Panels Installed Before Roof

Install high eave plates flush with the outside face of the high crowns of the wall panels. Install Fastener #1 in prepunched slots (1'-0" on center) of the eave plate. The first eave plate will butt against the rake support. All of the eave plates may be installed at this time.

Be sure to butt each eave plate end to end without leaving a gap between the plates. Place an 8" length of Triple Bead tape sealer at each butt joint.

Install box panel cap trim to the top of the eave plates. Check to make sure the trim is flat against the wall. Attach the trim to the eave plate and the wall panel with a Fastener #14 at 10'-0" centers.

Lay Tri-Bead tape sealer across the top of the eave trim, flush with the outside edge.

For vinyl back insulation, install double faced tape (not by manufacturer) along the length of the bottom of the eave plate. Double faced tape must be upslope from the Tri-Bead tape sealer.

Wall Panels Installed After Roof

Install offset panel cap trim to the eave strut and wall panel with Fastener #14 at 10'-0" centers. Use three fasteners per trim piece.

Install high eave plates flush with the outside of the offset panel cap trim. Install Fastener # 1 in each prepunched slot (1'-0" on center) of the eave plate. The first eave plate will butt against the rake support. All of the eave plates may be installed at this time

Lay Tri-Bead tape sealer under the eave plate on top of the offset panel cap trim.

Be sure to butt each eave plate end to end without leaving a gap between the plates. Place an 8" length of Triple Bead tape sealer at each butt joint.

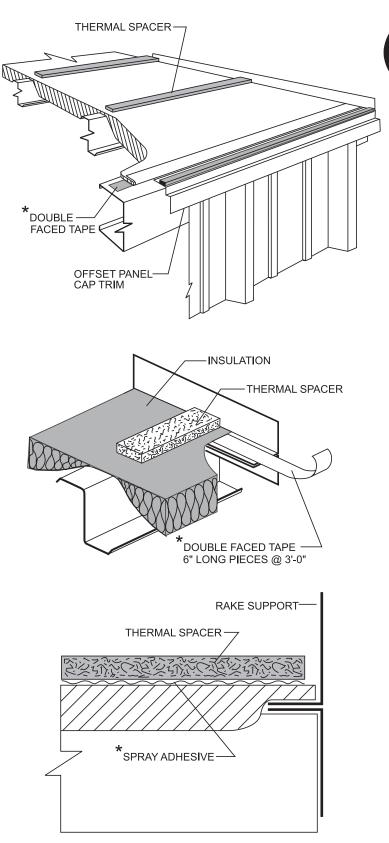
Lay Tri-Bead tape sealer across the top of the eave plates, flush with the outside edge. For vinyl back insulation, install double faced tape (not by manufacturer) along the length of the bottom leg of the eave plate.

Lap trim 2". Apply two beads of urethane sealant between the trim pieces, approximately 1" from the end of the bottom piece. Attach trim laps in flat eave trim with Fastener #14. Attach trim laps on panel cap trim with Fastener #4.

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STEP 3

INSTALLATION SEQUEN

THERMAL SPACER (FOR HIGH SYSTEM ONLY)

Position the thermal spacer on top of the insulation over each purlin and against the rake support prior to installing the roof panel.

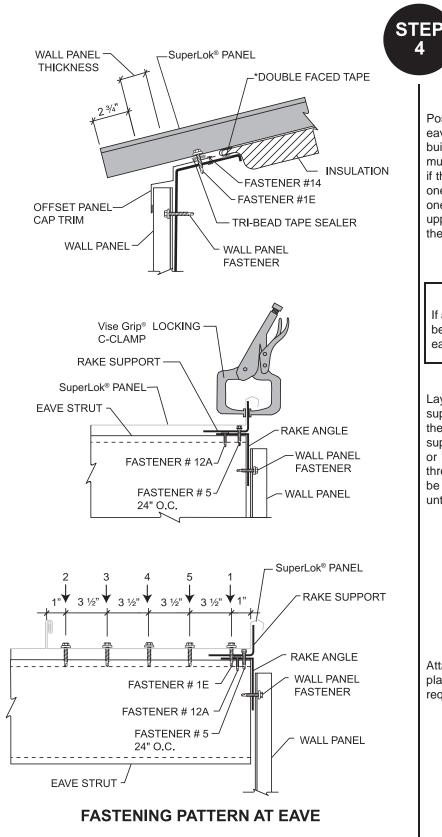
Using spray adhesive, (not by manufacturer), adhere the thermal spacer to the insulation (First Panel Run Only). The thermal spacer increases the insulation capacity along the purlins.

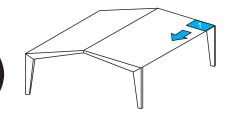


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INSTALLATION SEQUENCE







FIRST PANEL

Position the panel so that it overhangs the eave strut by the dimension shown on the building drawings. The upper end of the panel must extend 7" beyond the web of the purlin if the panel covers eave to ridge. If more than one panel is required to cover eave to ridge, one or more endlaps will be required. The upper end of the panel will extend 10" beyond the web of the purlin at endlaps.

NOTE:

If an endlap is required then roof panel must be sheeted right to left as viewed from the eave looking toward the ridge.

Lay the female leg of the panel over the rake support. To prevent wind damage, secure the female leg of the panel to the rake support with Vise Grip[®] Locking C-Clamps or temporary fasteners. Fasteners must go through the rake support. The panel will not be fastened permanently to the rake support until the rake trim is installed.

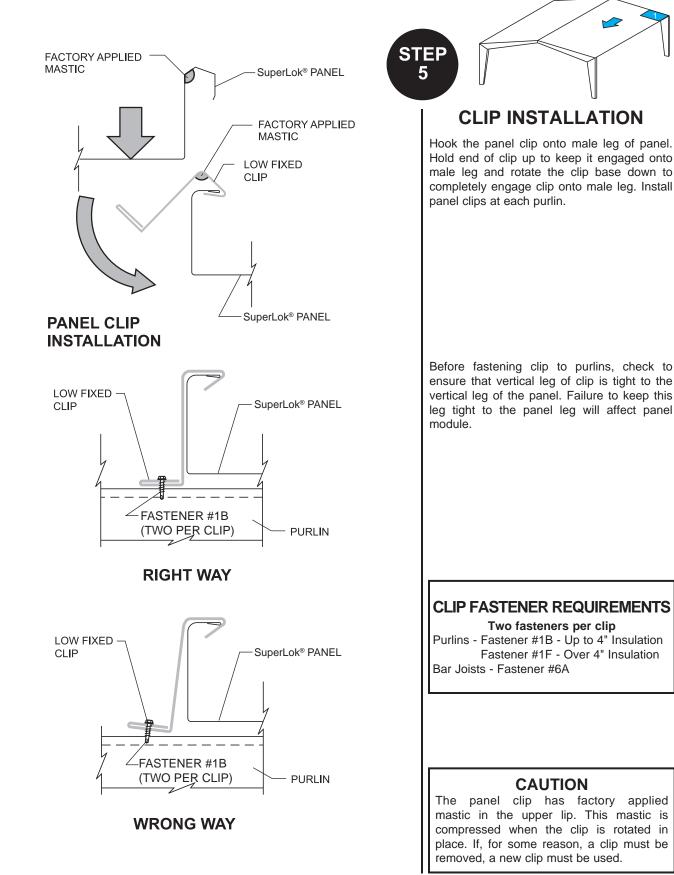
Attach the panel to the eave strut or eave plate with Fastener #1E. Five fasteners are required at this location.

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INSTALLATION SEQUENCE

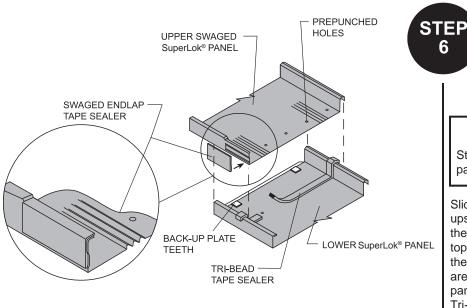




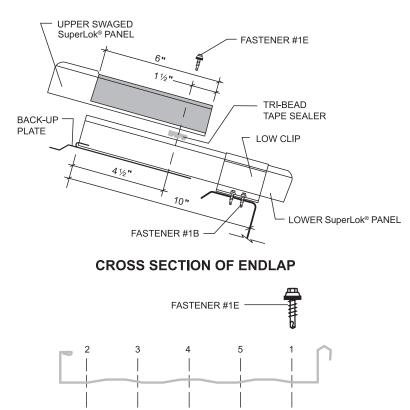
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INSTALLATION SEQUENCE

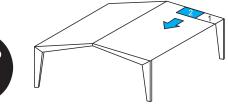




PANEL INSTALLATION SEQUENCE



FASTENER SEQUENCE



ENDLAP-PANEL

NOTE:

Step 6 applies only where more than one panel is used in a single slope.

Slide a prepunched back-up plate onto the upslope end of the bottom panel. Make sure the teeth on top of the back-up plate are on top of the panel. Visually check to ensure that the prepunched holes in the back-up plate are aligned with the prepunched holes in the panel. At upslope end of bottom panel, install Tri-Bead tape sealer across entire width of panel. Tape sealer must be centered over prepunched holes in panel. Apply swaged endlap tape sealer to swaged vertical male leg of upper panel. Pigtail portion of tape sealer must lap over vertical leg of panel.

Using an awl to align the prepunched holes, install upper panel by nesting it over the lower panel for 6". Rotate the male leg of the upper panel under the male leg of the bottom panel, then force the female leg of the bottom panel down onto the female leg of the bottom panel. Install Fastener #1E in the prepunched holes in the proper sequence. Install clips as outlined in Step 5.

Repeat this endlap procedure as required until ridge is reached.

NOTE:

If you are using 12" **SuperLok**[®] panels, they are not prepunched for endlaps. Use Triple Bead Tape Sealant at endlaps with 12" wide panels.

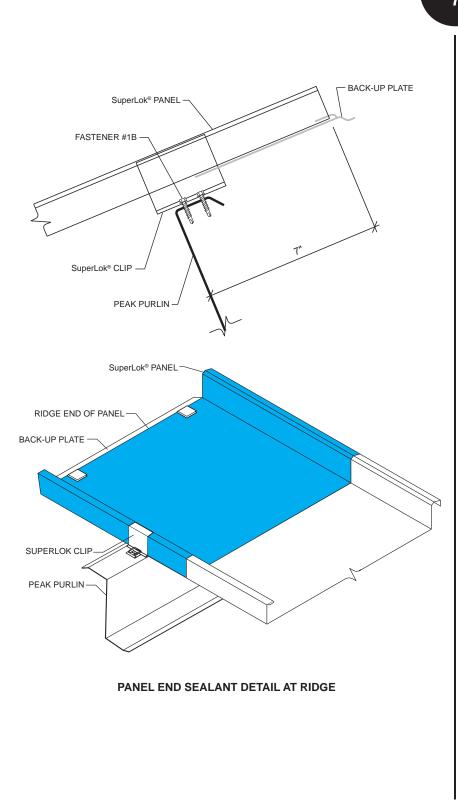
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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INSTALLATION SEQUENCE

STEP



At the ridge, the panel should extend 7" past the web of the peak purlin.

RIDGE

At the ridge install a back-up plate as outlined in Step 6.

Install clips as outlined in Step 5.



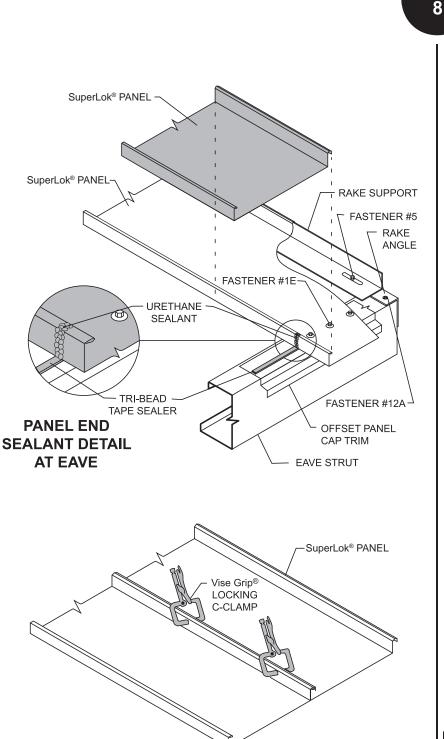
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

STEP

Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

INSTALLATION SEQUENCE

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SUBSEQUENT RUNS EAVE

Apply urethane sealant to the male leg of the first panel directly over the Tri-Bead tape sealer at the eave. This will prevent water infiltration through the end of the panel seam.

Position the next panel with the female leg over the male leg of the previous panel with panel ends flush.

Clamp the panel seam together at both ends. Long panels may require one or more clamps in the middle. This will help hold panel module.

Install fasteners at eave as outlined in Step 4.

Install clips as outlined in Step 5.

Crimp panel seam at all clip locations with hand crimping tool. Panels should be fully seamed with electric seamer as quickly as possible after a section of the roof is completed.

CAUTION

Panel must be crimped at all clip locations as they are installed to provide temporary wind resistance.

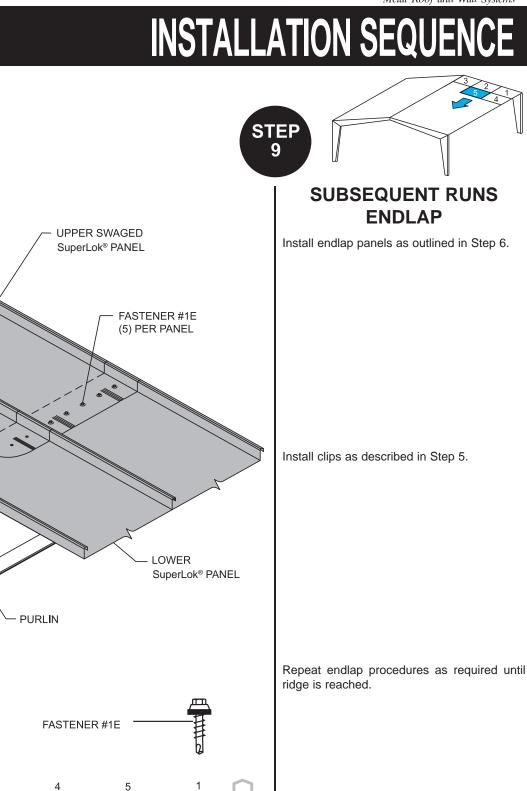
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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SWAGED ENDLAP TAPE SEALER

BACK-UP PLATE



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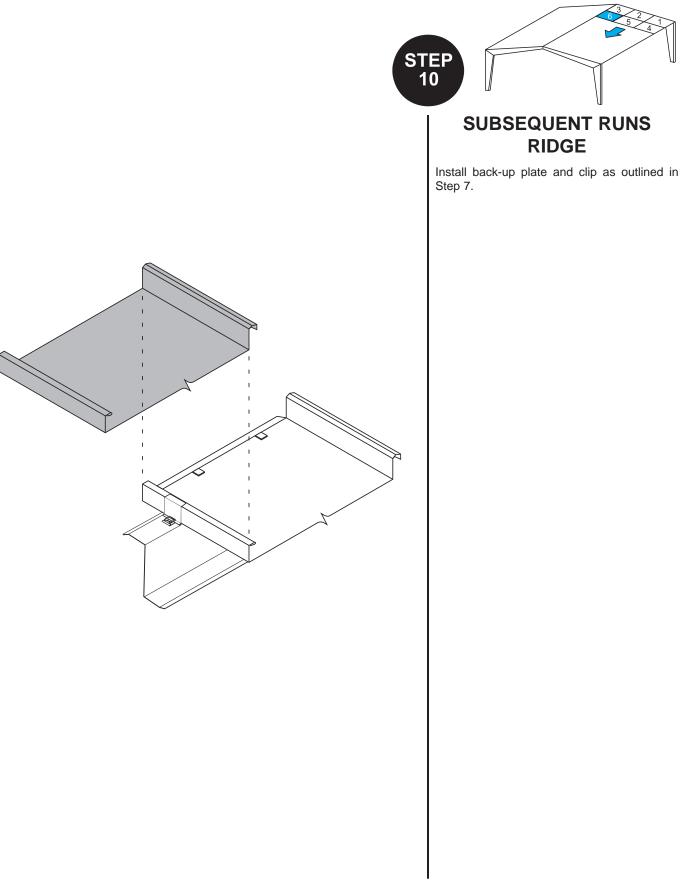
FASTENER SEQUENCE



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INSTALLATION SEQUENCE

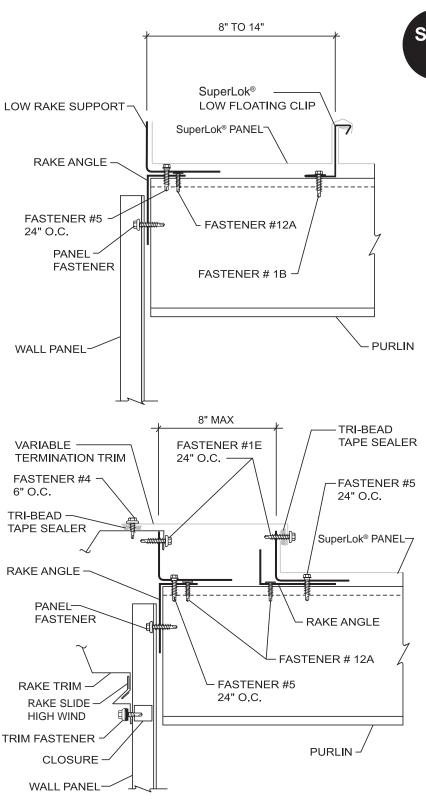
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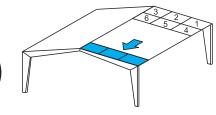


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STEP 11

INSTALLATION SEQUE



LAST PANEL RUN

Install rake support at the finishing end of the roof as outlined in Step 1.

FINISHING DIMENSION RUN OF 8" TO 14"

Field cut and bend a 2" tall vertical leg on the panels in the last run of roof. The vertical leg must be tight to the rake support angle. Secure the vertical leg to the rake support angle with clamps or temporary fasteners. At the endlap and ridge, a partial back-up plate must be cut.

FINISHING DIMENSION RUN OF LESS THAN 8"

If the width of the last panel run is 8" or less, a second run of rake support angle must be installed for attachment of the vertical leg of the panel. A variable termination trim will be required to seal the gap between the vertical leg of the panel and the rake trim.

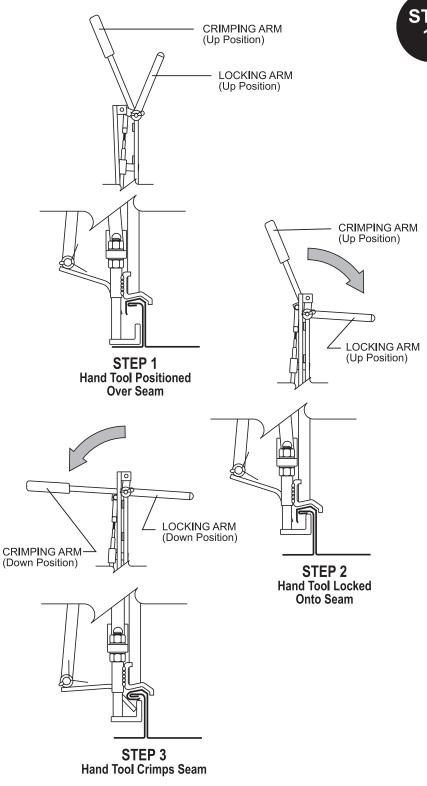
The male leg of the panel and the termination trim must be field cut to fit the condition.



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INSTALLATION SEQUENCE







SEAMING OPERATION

As panels are installed, hand crimp at each clip location with the hand crimper. Panels should be completely seamed with the electric seamer as soon as possible.

Push locking arm down to lock crimper onto seam. If difficulty is encountered, check to make sure that the hand crimper is properly alighned on seam. **Do not force locking arm.**

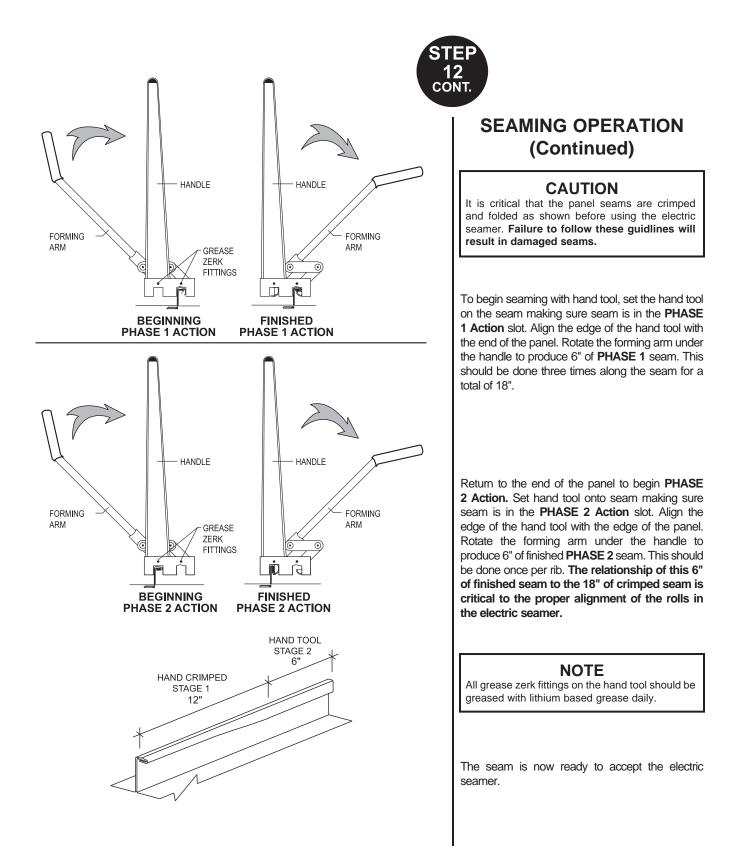
Push crimping arm down to crimp panel. Return both the crimping arm and locking arm to the up postion and remove tool from seam.

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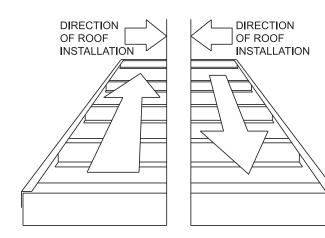


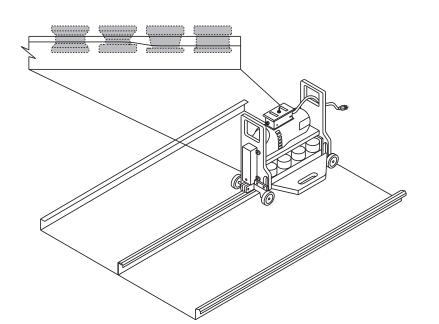


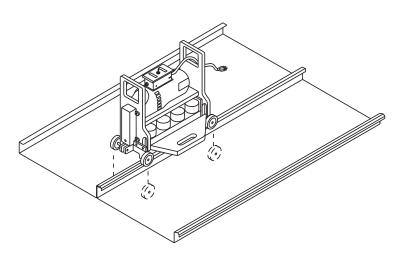
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INSTALLATION SEQUENCE

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SEAMING OPERATION (Continued)

The electric seamer will run in one direction only. To determine the direction of the seamer, stand at the eave and look upslope. If the roof is being installed left to right, the seamer will run upslope. If the roof is being installed right to left, the seamer will run downslope, An orientation plate is on the seamer to assist you in placing the seamer onto the seam properly. When the roof has endlaps, the panels will always be installed right to left. When the roof slope is 6 on 12 or greater, panels must run right to left.

To begin seaming, set seamer on seam with the locking bar up and to the open side of the seam. The rear wheels should be even with the edge of the roof panel. Push the locking bar down to engage the rolls and turn the seamer on.

Stop seamer about one foot from end of panels. Disengage locking bar and remove the electric seamer. Finish seam with hand tool.

CAUTION

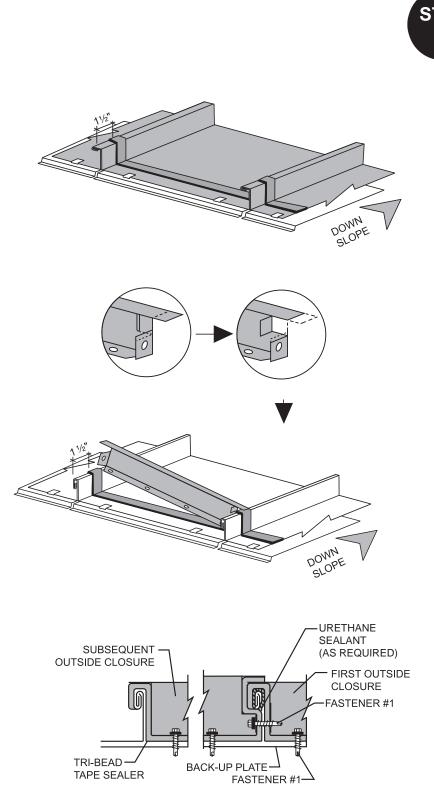
- Seamer operation should be closely supervised at all times.
- A safety line should be attached to the seamer.
 Do not entangle the electrical cords in the seamer tooling while it is in operation. This could cause serious injury or death to the operator and severely damage the seamer.
- Electrical cords should be 10-gauge to provide power to the seamer and never be over 200 feet from the electrical source.

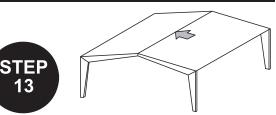
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INSTALLATION SEQUENCE





OUTSIDE CLOSURE INSTALLATION

Panels must be seamed before closures can be installed. Install Tri-Bead tape sealer across full width of panels, including under panel seams at ridge. Center of tape sealer should be 1 ½" from end of panels.

Field cut the end of the outside closure that fits to the open side of the panel seam. Notch and bend the vertical leg of the closure above the end tab back to the dimple formed into the closure. It is important that the closures fit tight to the panel seams to prevent the need for excess urethane sealant at this location.

Install outside closures by rotating the end cut for the panel seam into place first. Then rotate the other end of the outside closure into place. The vertical leg of the outside closure should be 2" from the upslope end of the panel. Attach the outside closure to the panel with Fastener #1 at each prepunched hole in the closure. Before installing the next outside closure, install a piece of Tri-Bead tape sealer onto the top flange of the outside closure previously installed. This is to prevent water being blown between the outside closures where the top flanges overlap. After all closures are in place, install Tri-Bead tape sealer across the top flange.

Use urethane sealant to fill any voids around the panel seams on the upslope side of the outside closures.

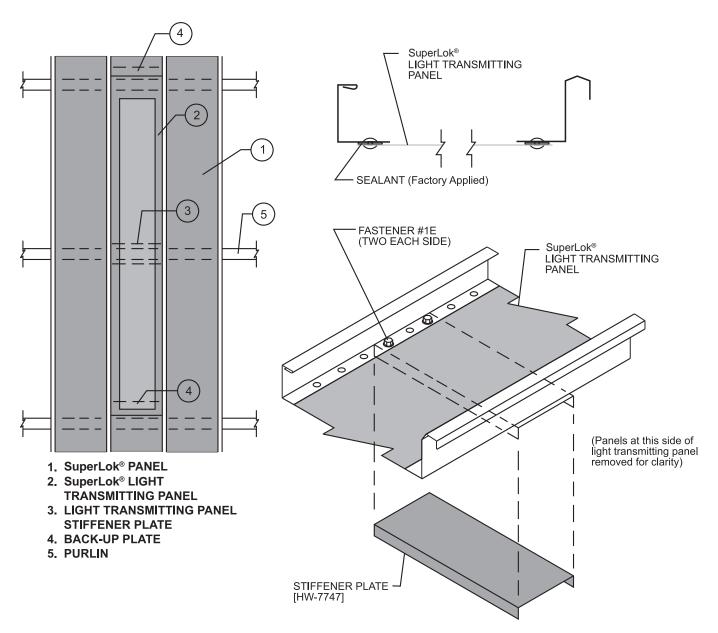


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SPECIAL ERECTION TECHNIQUES

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UL 90 LIGHT TRANSMITTING PANEL INSTALLATION



NOTES:

- 1. Maximum width of purlin flange to be 3 1/2".
- 2. Stiffener plate is to be field installed on bottom side of light transmitting panel over mid-purlin.
- 3. Light transmitting panel rivets that obstruct stiffener plate must be drilled out and replaced with Fastener #1E. Minimum two fasteners per side.
- 4. Stiffener plate must be centered exactly over mid-purlin so that thermal movement of the system is not restrained by the purlin.
- 5. Endlaps created by the use of light transmitting panels require roof erection to proceed from right to left as viewed from the eave looking toward the ridge.
- 6. WARNING: It is the user's responsibility to ensure that the installation and use of all light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls that prevent fall-through.

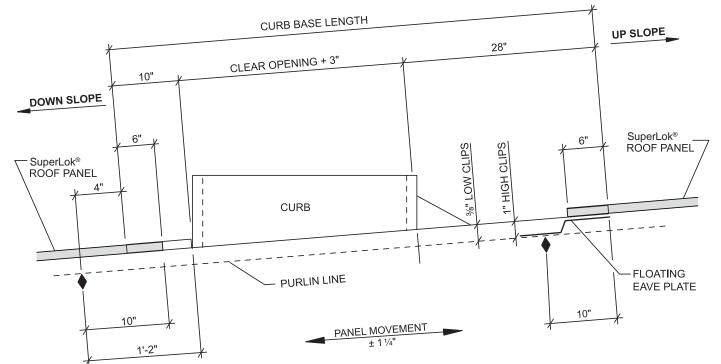
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

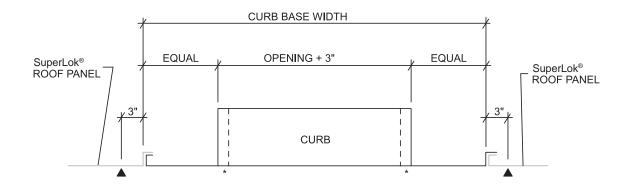


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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION FLOATING ROOF CURB SUPPORT GUIDE





♦ INDICATES ROOF PANEL SUPPORTS

- ▲ INDICATES CURB BASE SUPPORTS
- * ADDITIONAL UPLIFT SUPPORTS ARE REQUIRED FOR THE ATTACHMENT OF THE CURB UP LIFT PLATES ONLY.

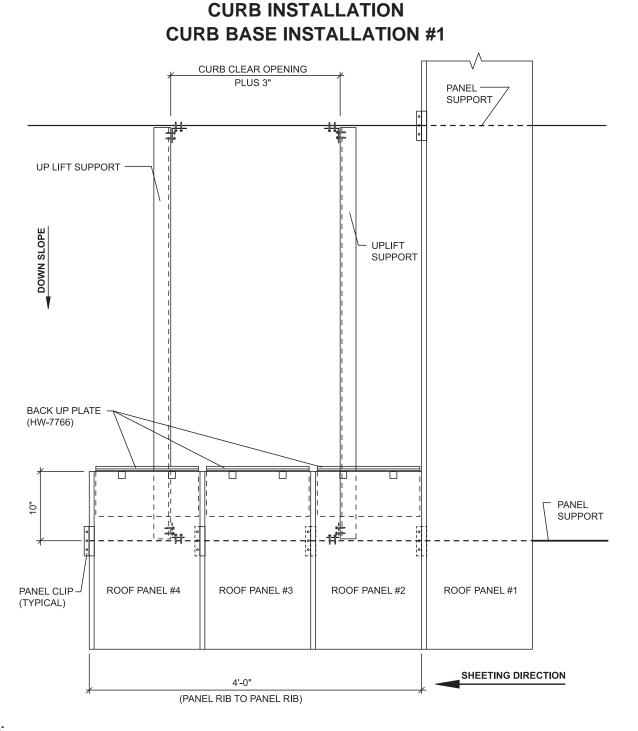
CAUTION



Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

SPECIAL ERECTION TECHNIQUES

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NOTES:

- 1. Install all lower roof panels to support the curb base.
- 2. Install back up plates.

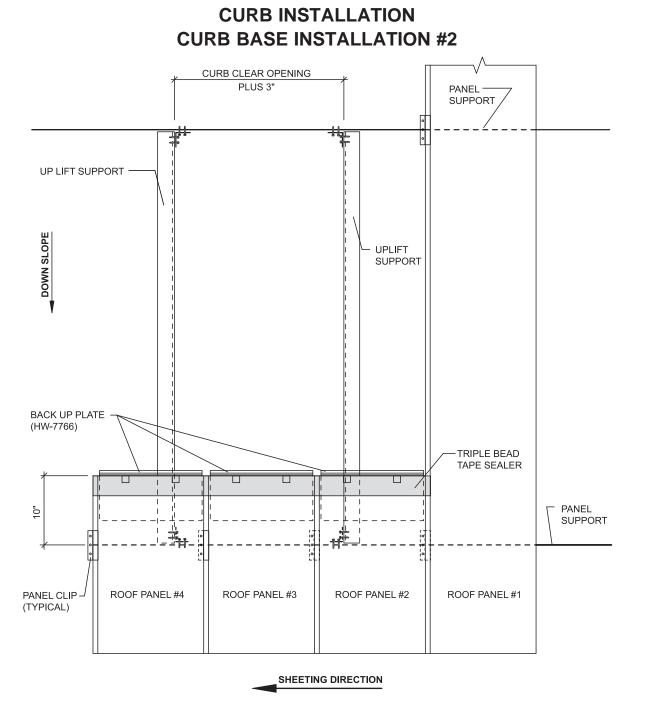
CAUTION

Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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SPECIAL ERECTION TECHNIQUES



NOTES:

1. Apply Triple Bead tape sealer (HW-502) on roof panels as shown

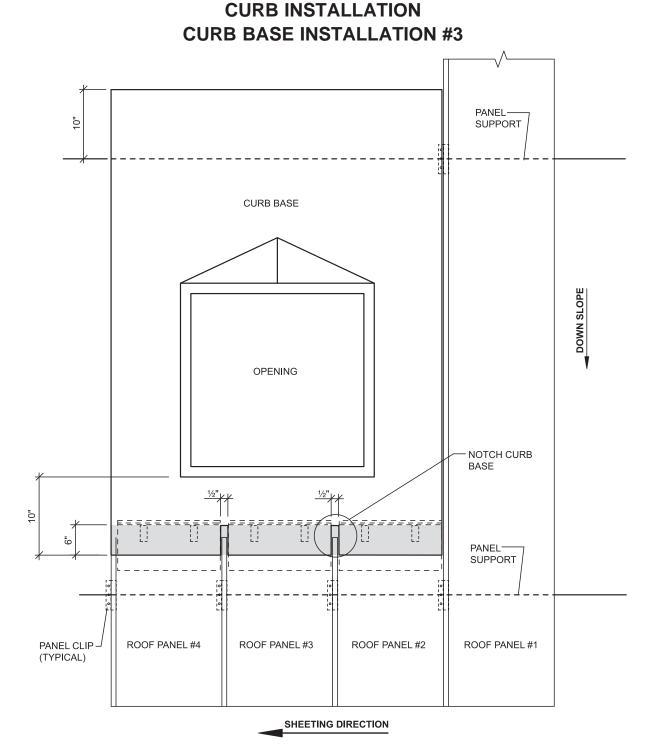
CAUTION



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SPECIAL ERECTION TECHNIQUES





NOTES:

- 1. For field located Panel Fin Caps, notch Curb Base at all panel Fins.
 - Install Curb Base on lower roof panels with a 3" End Lap.

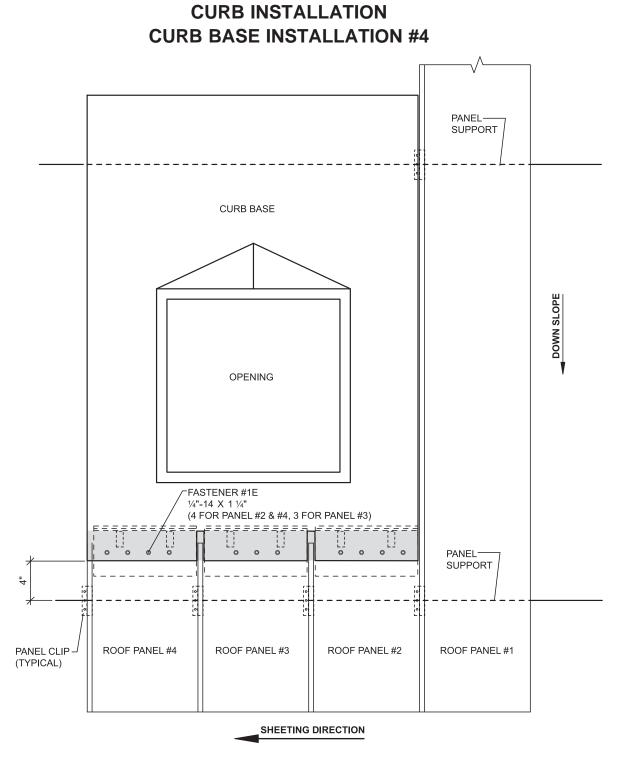
CAUTION

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NOTES:

1. Attach the Curb Base to the roof panels.

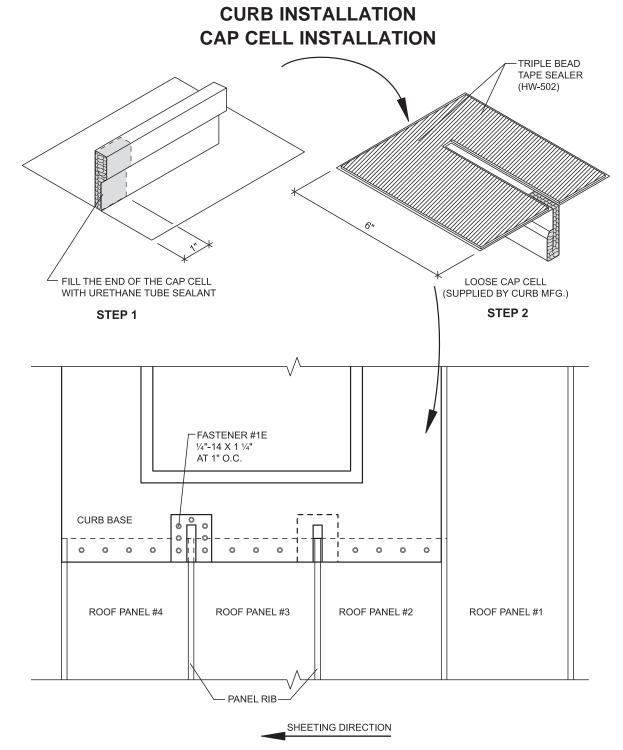
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SPECIAL ERECTION TECHNIQUES

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NOTES:

1. Fill Fin cavity of Cap Cell with Urethane Tube Sealant. Apply Triple Bead tape sealer (HW-502) on the bottom of (2) loose the Cap Cell, install over the panel Fins and attach with (6) Fastener #1E.

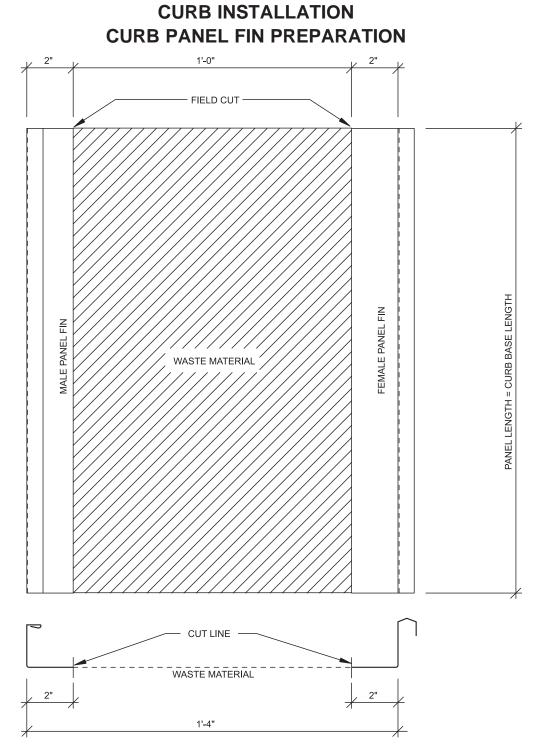
CAUTION

Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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NOTES:

1. Field cut male and female panel ribs from an extra roof panel supplied by the building manufacturer.

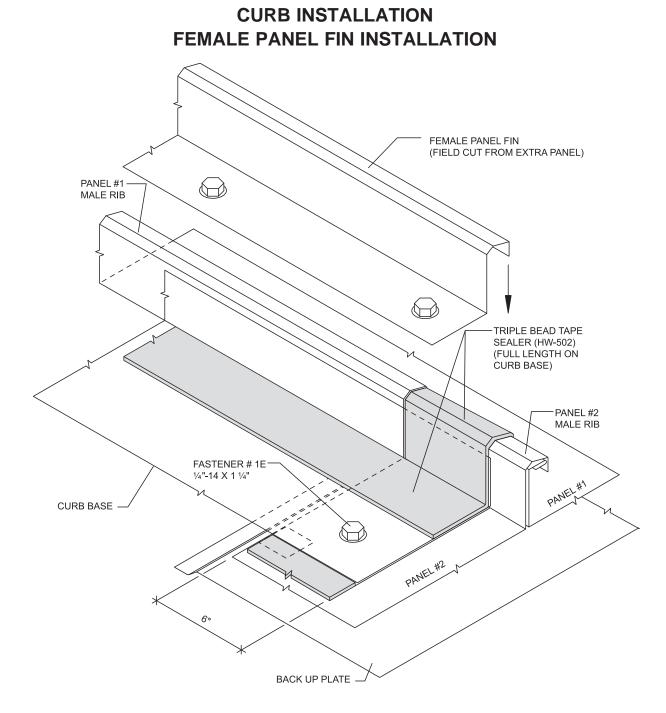
CAUTION



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SPECIAL ERECTION TECHNIQUES



NOTES:

- 1. Install Triple Bead tape sealer (HW-502) to panel #2 Male Fin, and along the edge of the Curb Base.
- 2. Install the Female Panel Rib over the tape sealer and attach with Fastener # 1E at 12" O.C.

CAUTION

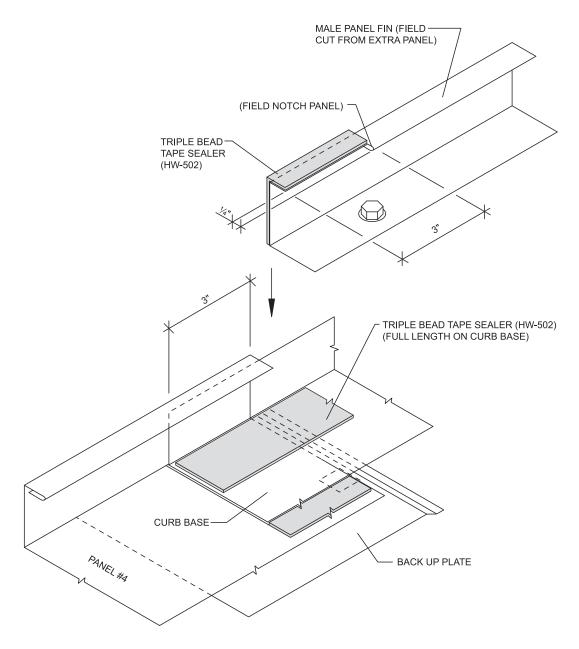
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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION MALE PANEL FIN INSTALLATION



NOTES:

- 1. Notch the male Panel Fin. Apply Triple Bead tape sealer (HW-502) to the top and side of the Male Panel Fin.
- 2. Apply Triple Bead tape sealer on the Curb Base under the male Panel Fin.
- 3. Insert the field cut male Panel Fin on top of the Triple Bead tape sealer.

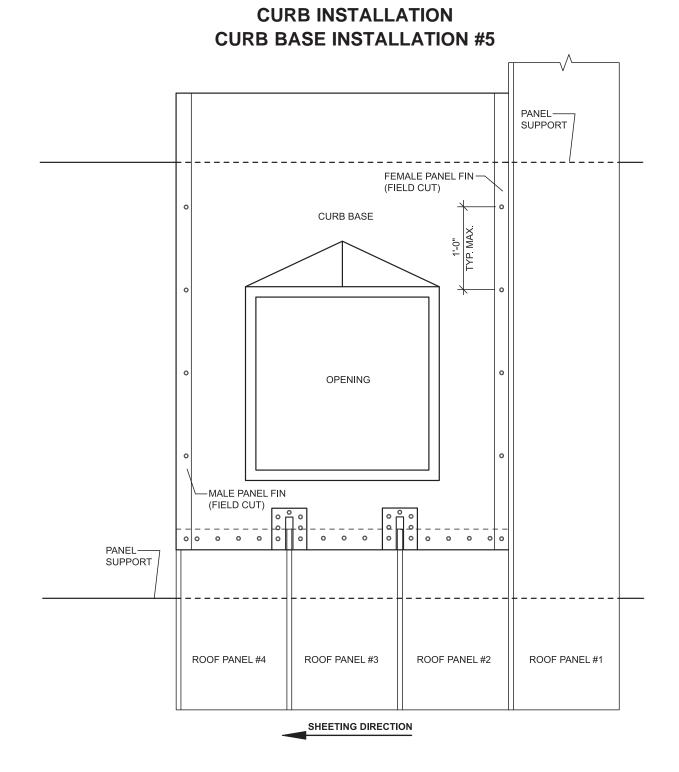
CAUTION



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SPECIAL ERECTION TECHNIQUES

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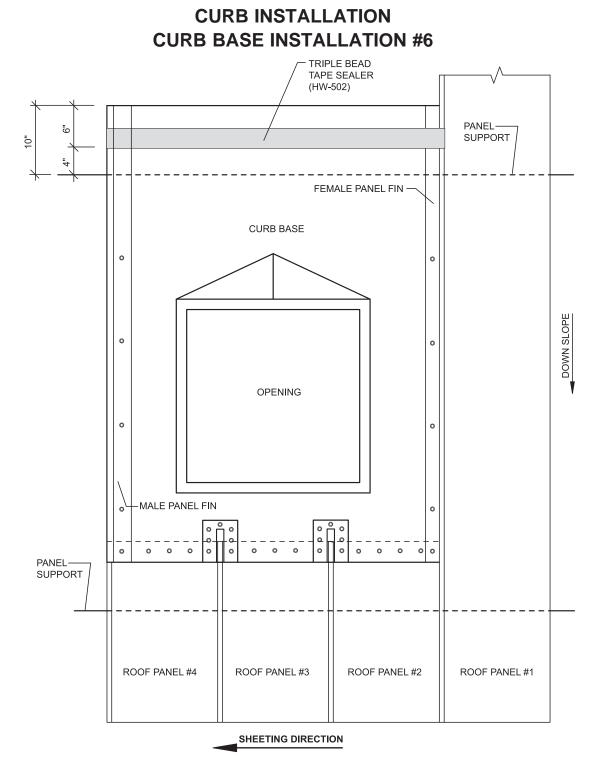
CAUTION

Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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SPECIAL ERECTION TECHNIQUES



NOTES:

1. Apply Triple Bead tape sealer (HW-502) on Curb Base at the up hill end.

CAUTION

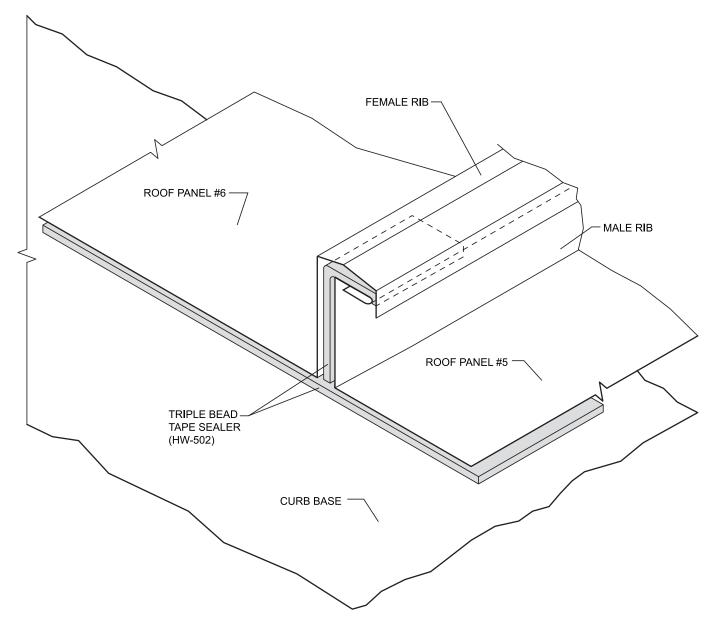


Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

SPECIAL ERECTION TECHNIQUES



CURB INSTALLATION CURB BASE INSTALLATION #7



NOTES:

1. Apply Triple Bead tape sealer (HW-502) between the Panel Fins on Panels #5 and #6 for water seal.

CAUTION

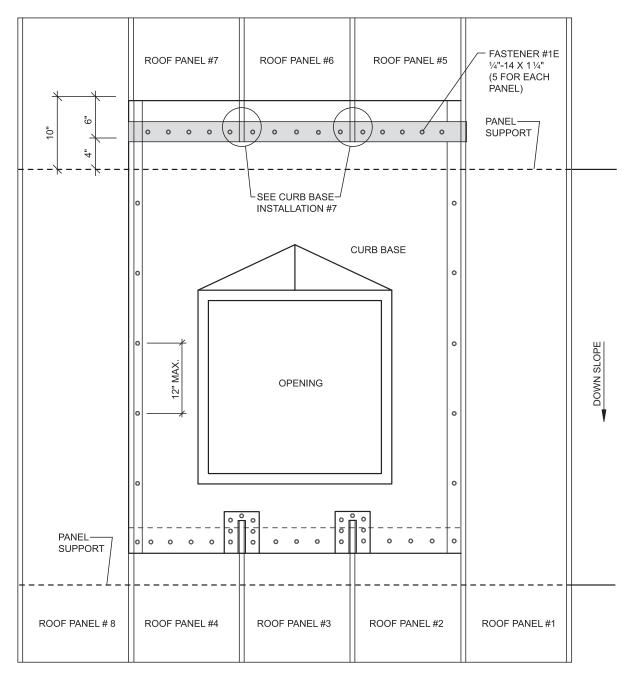
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION CURB BASE INSTALLATION #8



NOTES:

- 1. Install Roof Panels #5, #6, & #7 to the Curb Base on top of the tape sealer with Fastener #1E (5 per panel).
- 2. Install Roof Panel #8.

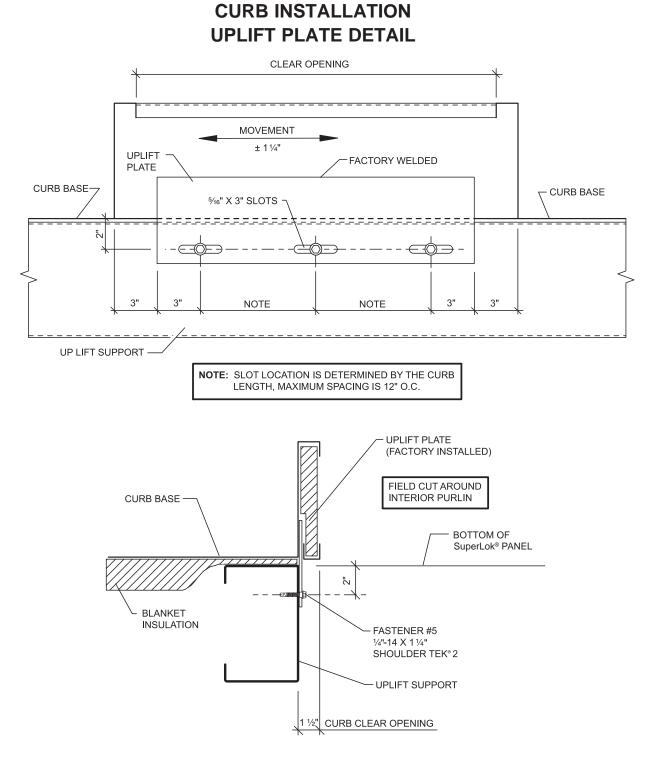
CAUTION



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SPECIAL ERECTION TECHNIQUES

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CAUTION

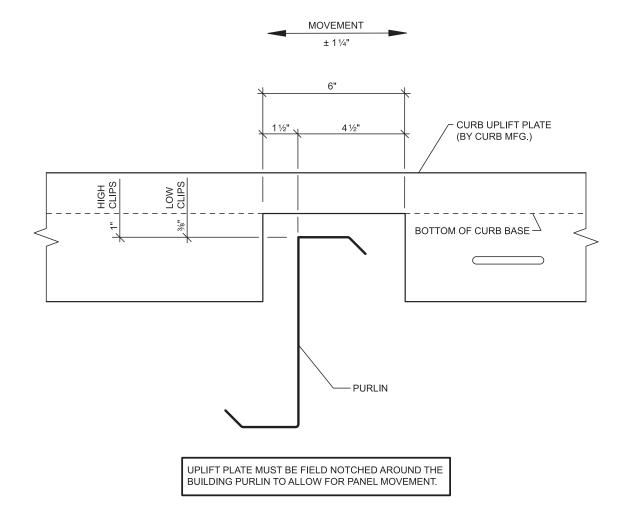
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CURB INSTALLATION UPLIFT PLATE FIELD NOTCH



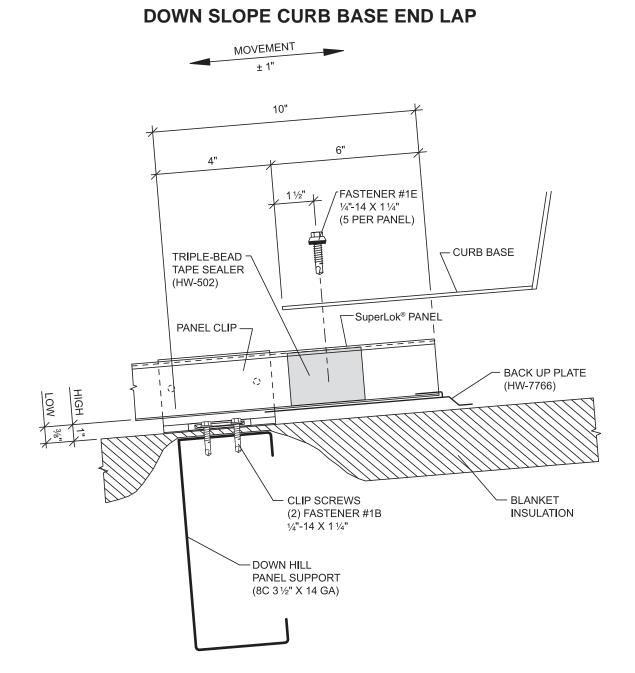
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SPECIAL ERECTION TECHNIQUES





CURB INSTALLATION

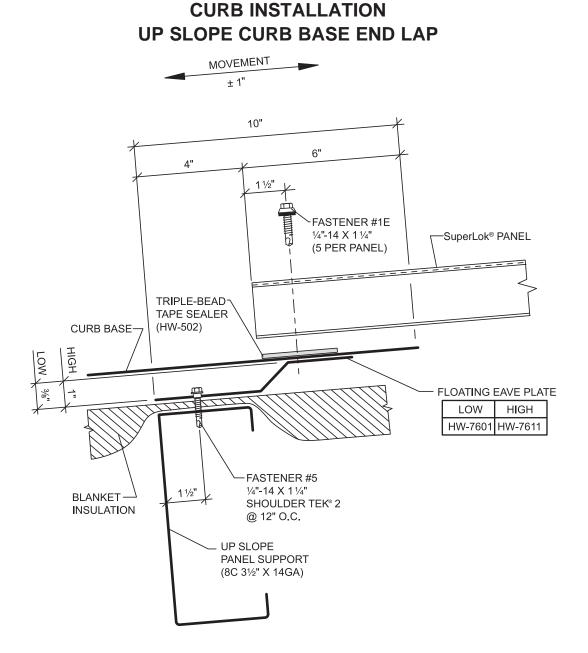
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SPECIAL ERECTION TECHNIQUES



CAUTION

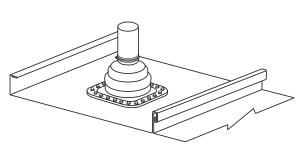


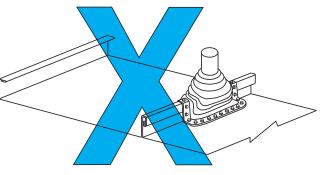
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

SPECIAL ERECTION TECHNIQUES

SuperLok[®]

PIPE PENETRATION INSTALLATION RECOMMENDED SMALL AND LARGE PIPE PENETRATION INSTALLATION

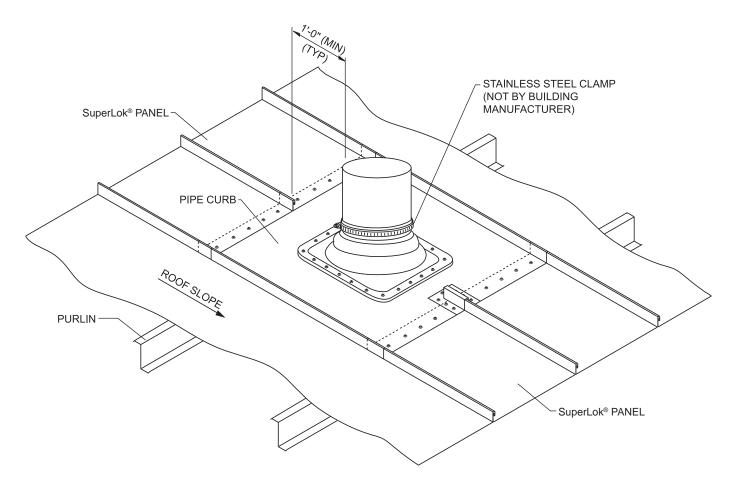




RIGHT WAY

WRONG WAY

RECOMMENDED SMALL PIPE PENETRATION INSTALLATION INSTALL PIPE IN CENTER OF PANEL TO ALLOW BASE OF RUBBER ROOF JACK TO LAY FLAT ON PANEL.



RECOMMENDED LARGE PIPE PENETRATION INSTALLATION

THIS METHOD TO BE USED IN ALL CASES WHERE A PIPE PENETRATION INTERSECTS A PANEL RIB OR WHEN THE PIPE IS TOO LARGE AND WILL NOT ALLOW ADEQUATE WATER FLOW DOWN THE PANEL.

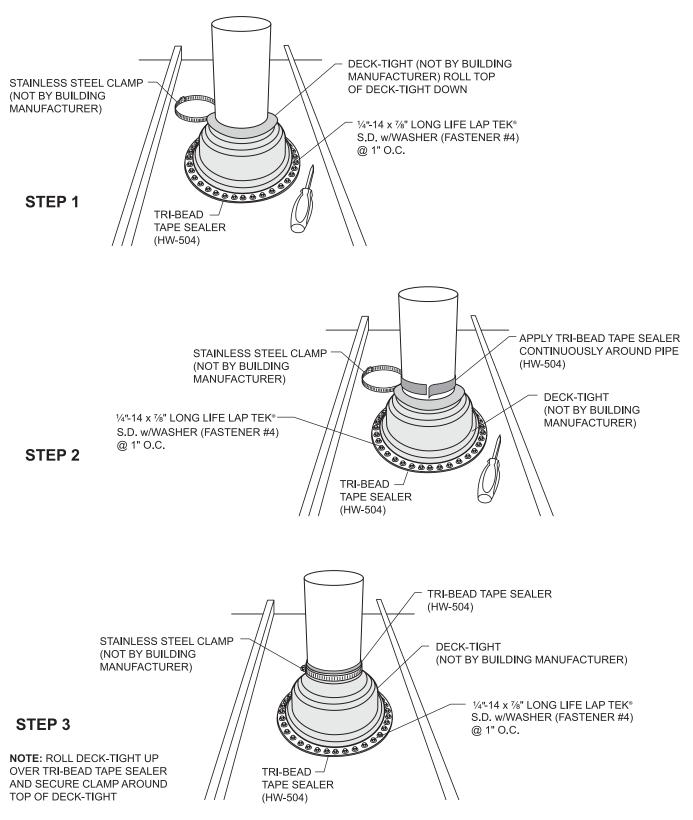
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



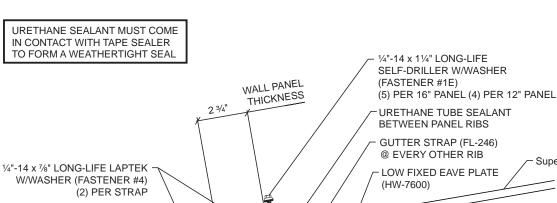
SuperLok[®]



PIPE PENETRATION INSTALLATION DECK-TIGHT INSTALLATION







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1/4" -14 x 1" SELF-DRILLER W/WASHER (FASTENER #1)

1%" x %" POP RIVET

(FASTENER #14A)

@ 12" O.C.

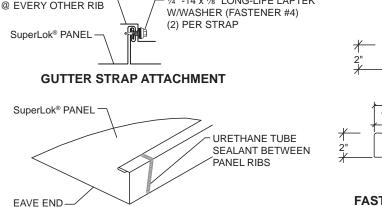
@ 5'-0" O.C.

(HW-504)

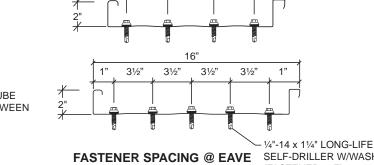
EAVE STRUT

O

WALL PANEL



EAVE SEALANT



35/16'

1

SELF-DRILLER W/WASHER (FASTENER #1E)

SuperLok® PANEL

1/4" -14 x 7/8" LONG-LIFE LAPTEK W/WASHER (FASTENER #4)

Metal Roof and Wall Systems **AILS**

GUTTER STRAP (FL-246)

OF PANEL

1/4"-14 x 7/8" LONG-LIFE LAPTEK

W/WASHER (FASTENER #4)

BOX PANEL CAP TRIM

12 - 14 x 11/4" LONG-LIFE

SCULPTURED GUTTER

1/8" x 3/16" POP RIVET (FASTENER #14) @ 3'-0" O.C.

SELF-DRILLER W/WASHER

@ 12" O.C.

(FL-272)

(FASTENER #3)

(FL-248A)



OPEN FRAMING FIXED EAVE WITH SCULPTURED GUTTER

Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

12"

35/16'

35/16"

1"

Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



BUILDING DIM.

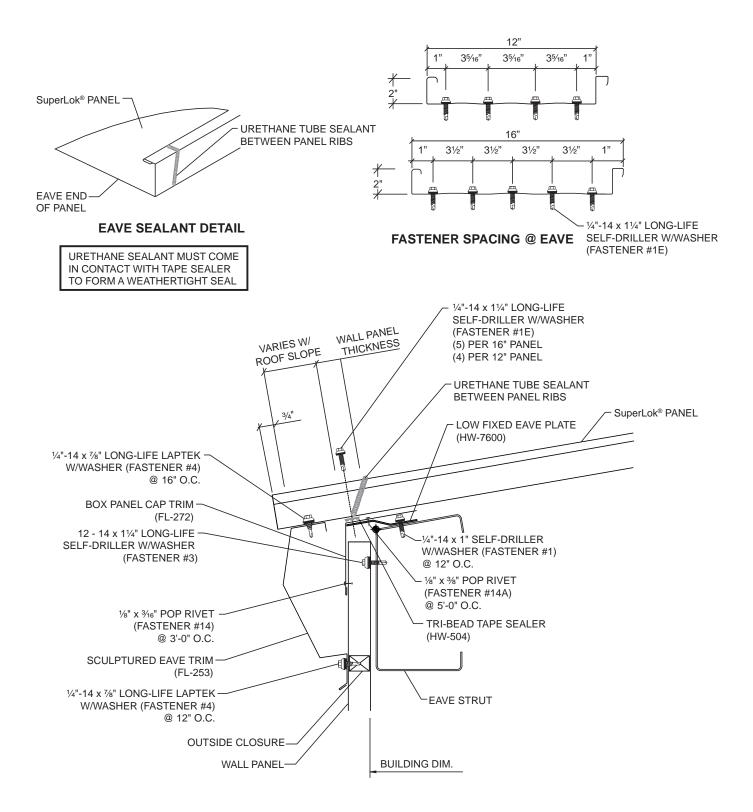
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224





SuperLok[®]





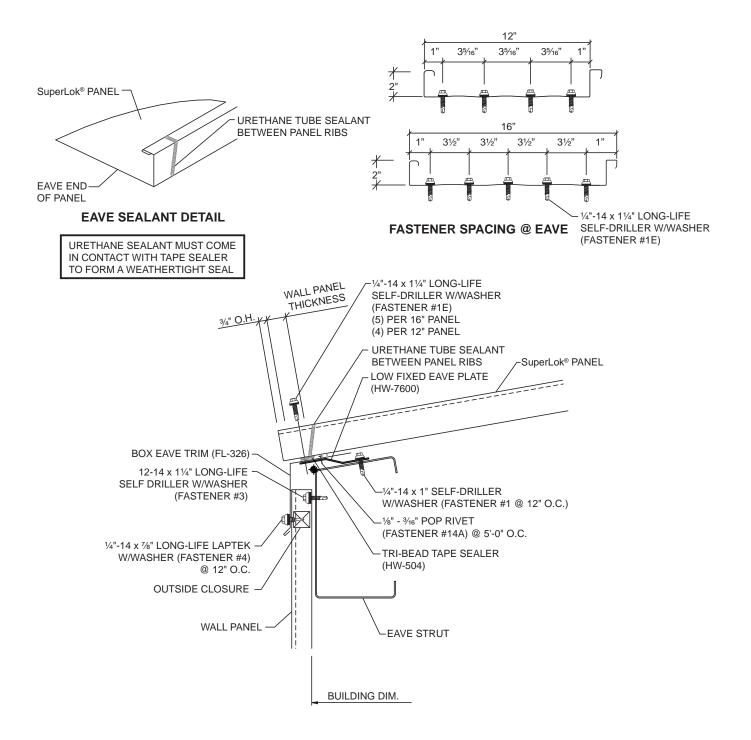


Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224





OPEN FRAMING FIXED EAVE WITH BOX EAVE TRIM



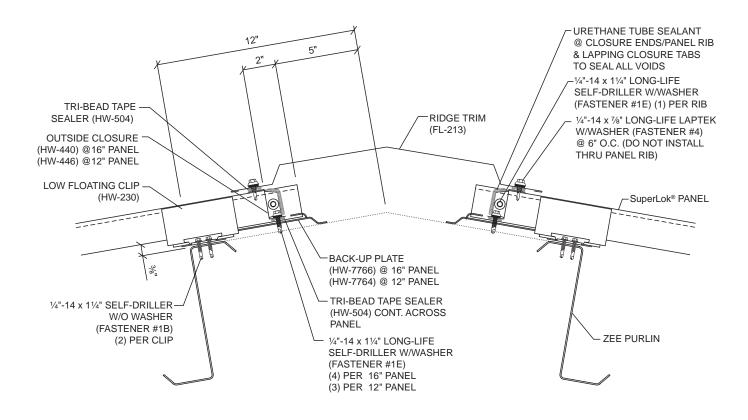
SuperLok®

Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224





OPEN FRAMING FLOATING RIDGE



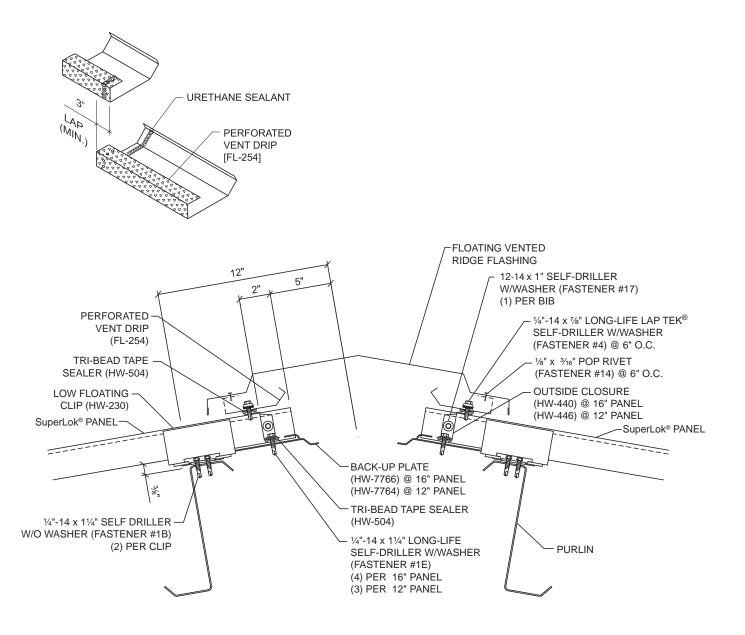


DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



OPEN FRAMING FLOATING VENTED RIDGE



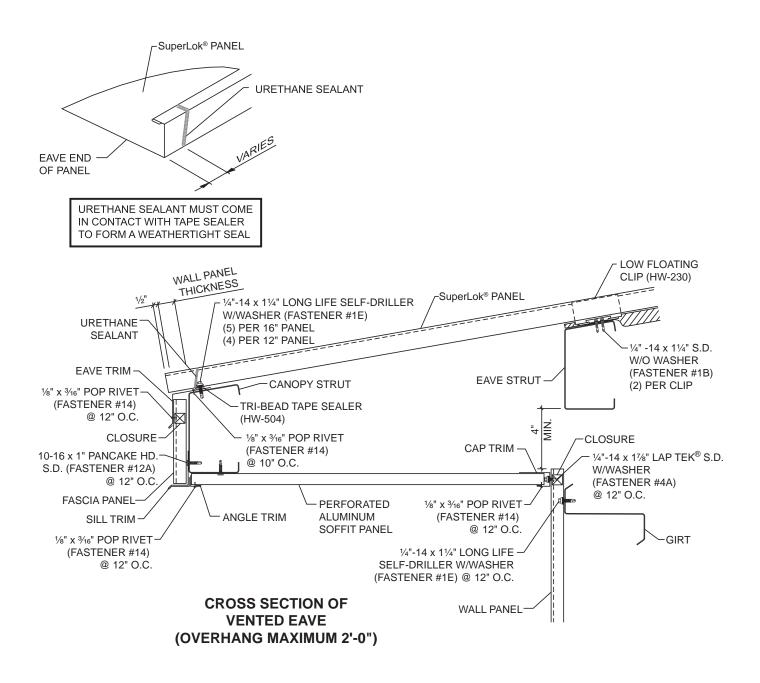
Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224





SuperLok[®]

OPEN FRAMING FIXED VENTED EAVE





MARCH 17, 2014





SCULPTURED RAKE

1/4"-14 x 11/4" LONG LIFE S.D. W/WASHER (FASTENER #1E)

1/4"-14 x 11/4" SHOULDER TEK® 2 SELF DRILLER (FASTENER #5) @ 24" O.C. (CENTER IN SLOT)

SELF DRILLER (FASTENER #12A)

(1 PER CONN. @ EACH PURLIN)

12-14 X 1" PANCAKE HEAD

2 X 4 X 16 GA. ANGLE

FIELD CUT & BEND UP 2" PANEL LEG AS REQ'D WHEN ENDING OFF MODULE

ANGLE (HW-7712)

LOW RAKE SUPPORT

ZEE PURLIN

@ 24" O.C.

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224

Indianapolis, IN 800-735-6224 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

SuperLok[®]

LOW FLOATING CLIP (HW-230)

(2) PER CLIP

SuperLok® PANEL

1/4"-14 x 11/4" SELF DRILLER

W/O WASHER (FASTENER #1B)

3%"

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5



12-14 X 11/4" LONG-LIFE -SELF DRILLER W/WASHER

SCULPTURED RAKE TRIM -

(FASTENER #3)

(FL-111)

HIGH WIND RAKE SLIDE

1/4"-14 x 7/8" LONG-LIFE LAPTEK W/WASHER (FASTENER #4)

(F-215)

@ 12" O.C.

OUTSIDE CLOSURE -WALL PANEL

Metal Roof and Wall Systems

TRI-BEAD TAPE SEALER -

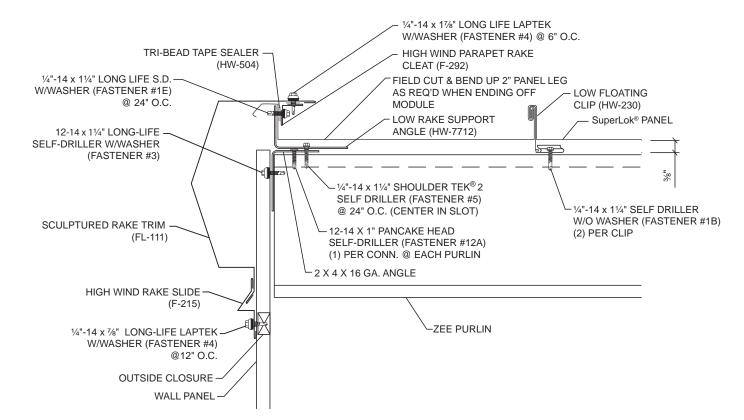
(HW-504)

J

(M

SL-68

OPEN FRAMING SCULPTURED RAKE WITH CLEAT

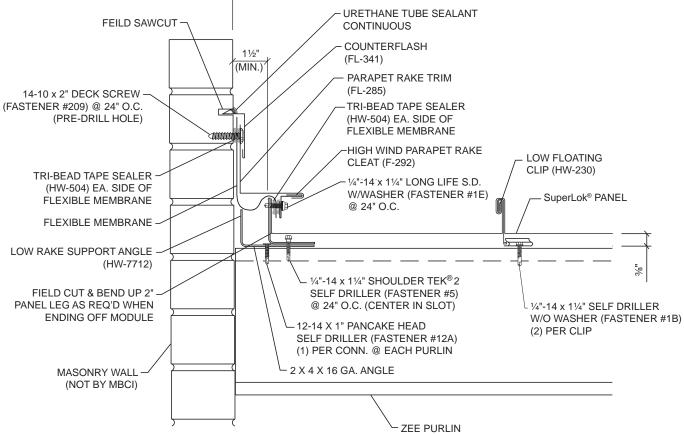


SuperLok[®]

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224 Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



1/4"-14 x 11/4" SHOULDER TEK® 2 SELF DRILLER (FASTENER #5) @ 24" O.C. (CENTER IN SLOT) 12-14 X 1" PANCAKE HEAD (2) PER CLIP SELF DRILLER (FASTENER #12A) (1) PER CONN. @ EACH PURLIN 2 X 4 X 16 GA. ANGLE ZEE PURLIN







DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224

BUILDING DIM.

Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224







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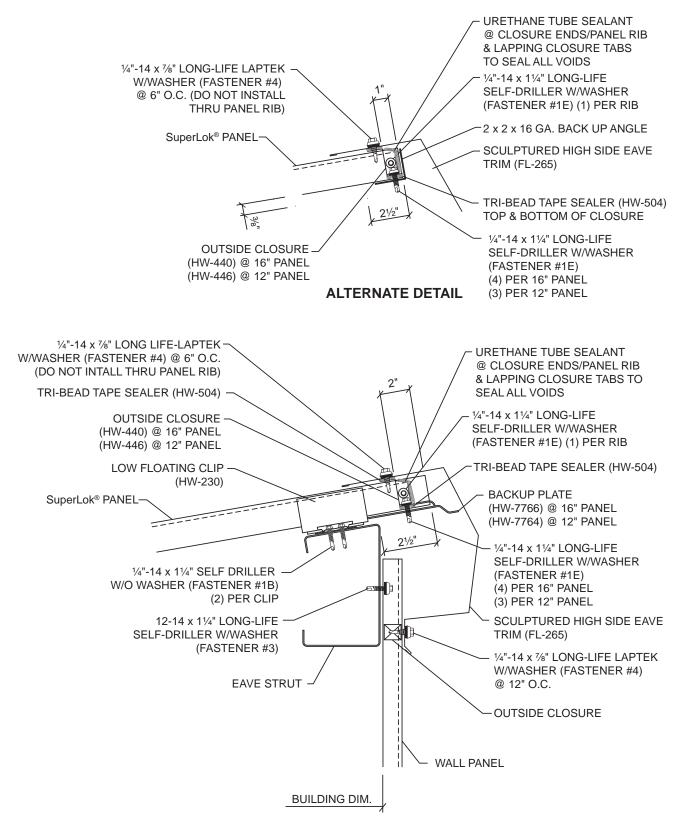


Houston, TX 877-713-6224 Adel, GA 888-446-6224

Atlanta, GA 877-512-6224

Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224

OPEN FRAMING FLOATING SCULPTURED HIGH SIDE EAVE



Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

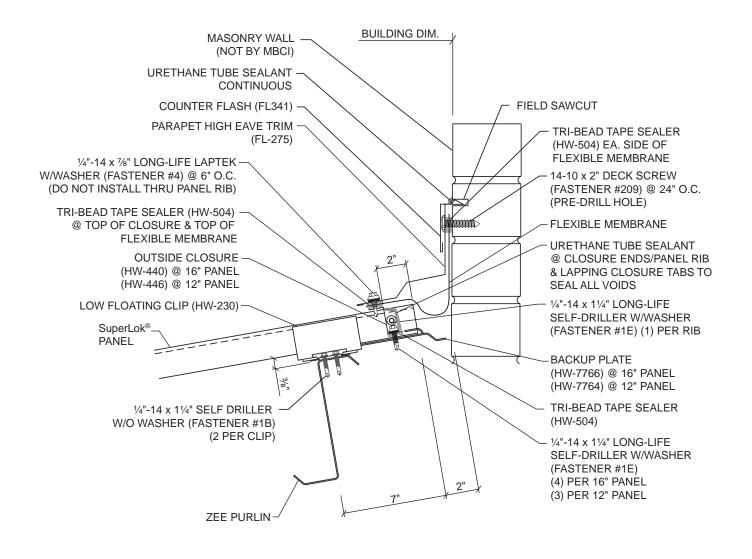








OPEN FRAMING PARAPET FLOATING HIGH SIDE EAVE



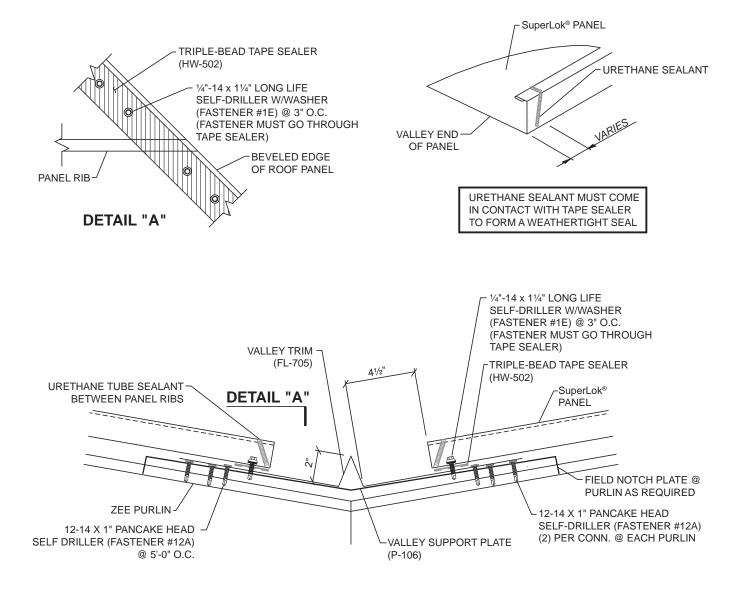
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



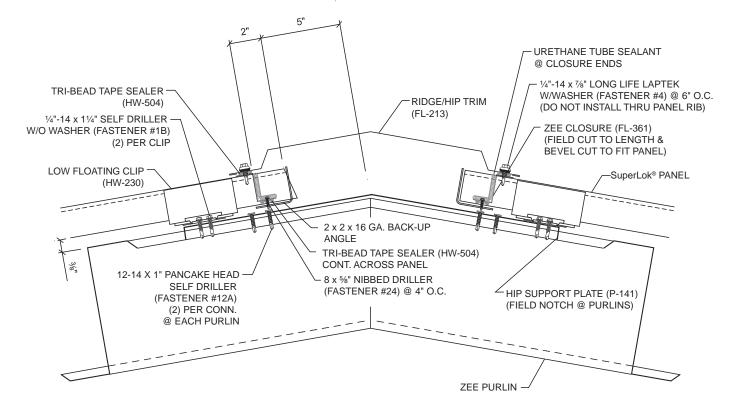


SuperLok[®]

OPEN FRAMING FIXED VALLEY











Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



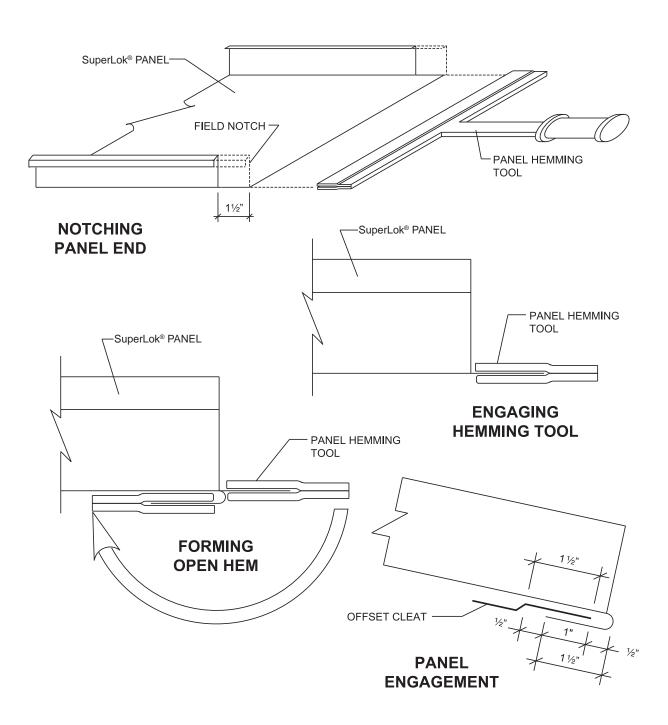
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224





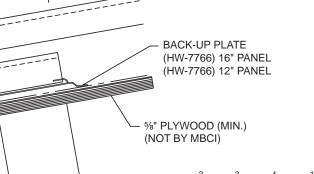
SuperLok®

FIELD HEMMING PANEL END





FASTENER INSTALLATION SEQUENCE



UPPER SWAGED

SuperLok® PANEL



SuperLok® . PANEL (LOWER)

SWAGED ENDLAP

TAPE SEALER (HW-515)

WOOD DECK **FLOATING ENDLAP**

6"

1 1/2"



SWAGED ENDLAP TAPE SEALER

(HW-515)

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224

VIEW "A"

TRI-BEAD -

TAPE SEALER (HW-504)

1/4" -14 x 5/8" LONG-LIFE TYPE "B" -W/WASHER (FASTENER #46)

LOW FLOATING CLIP -

(5) PER 16" PANEL (2) PER 12" PANEL

(HW-230)

(LOWER)

_

14-10 x 1" TYPE "A" -SELF-TAPPER W/WASHER

(FASTENER #18) (2 PER CLIP)

SuperLok® PANEL

MOISTURE BARRIER

(NOT BY MBCI)

Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224

Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

SuperLok[®]

UPPER SWAGED

SuperLok® PANEL

BACK-UP PLATE

EFFECTIVE MARCH 17, 2014

41/2"

1/4" -14 x 5/8" LONG-LIFE TYPE "B" W/WASHER (FASTENER #46)

(5) PER 16" PANEL

(2) PER 12" PANEL

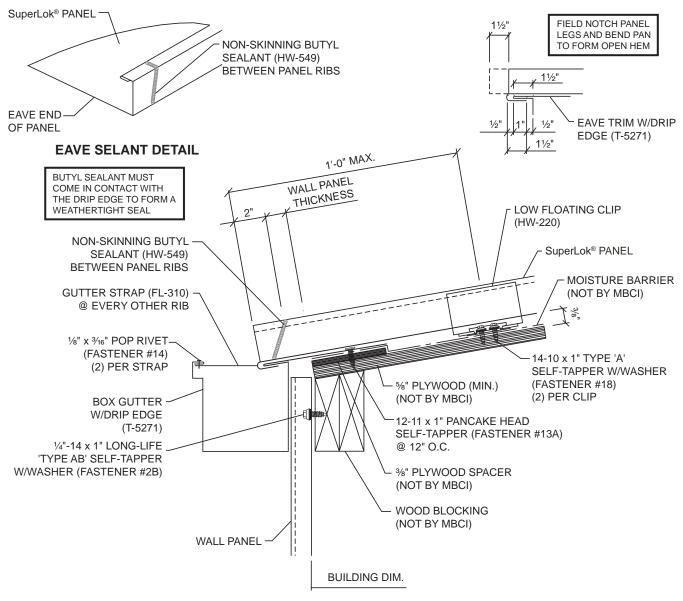
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

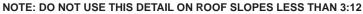
Retal Roof and Wall Systems



DETAILS

WOOD DECK FLOATING EAVE WITH BOX GUTTER





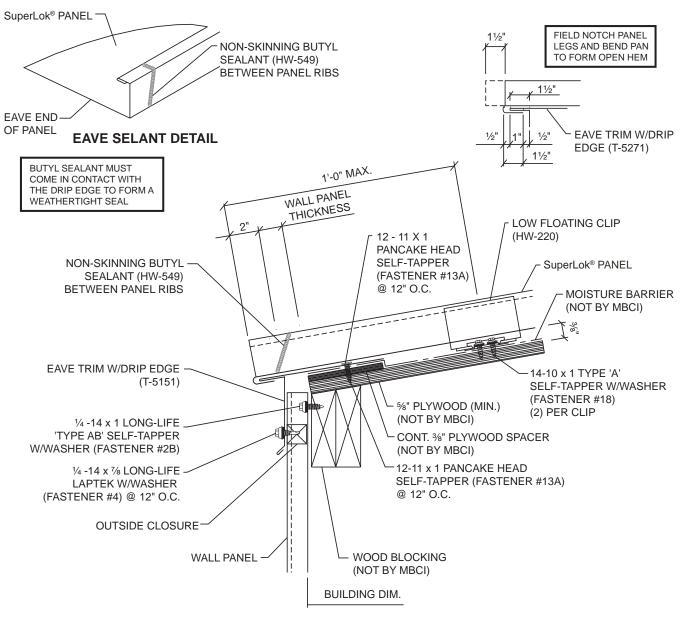


Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



SuperLok[®]

WOOD DECK FLOATING EAVE WITH EAVE TRIM WITH EXTENDED DRIP EDGE



NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

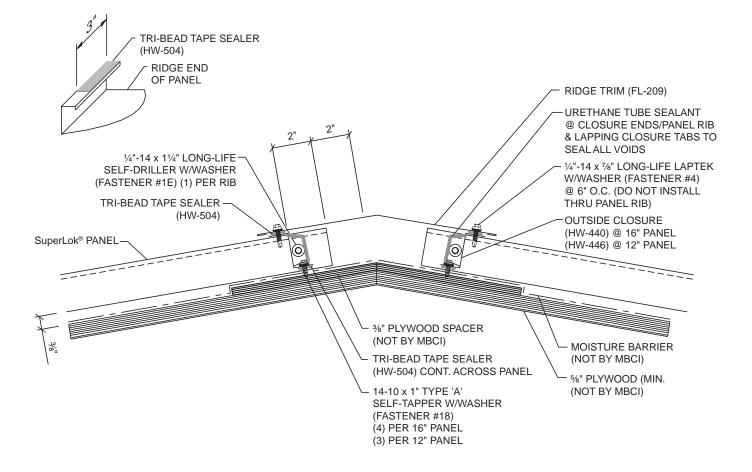




SuperLok[®]







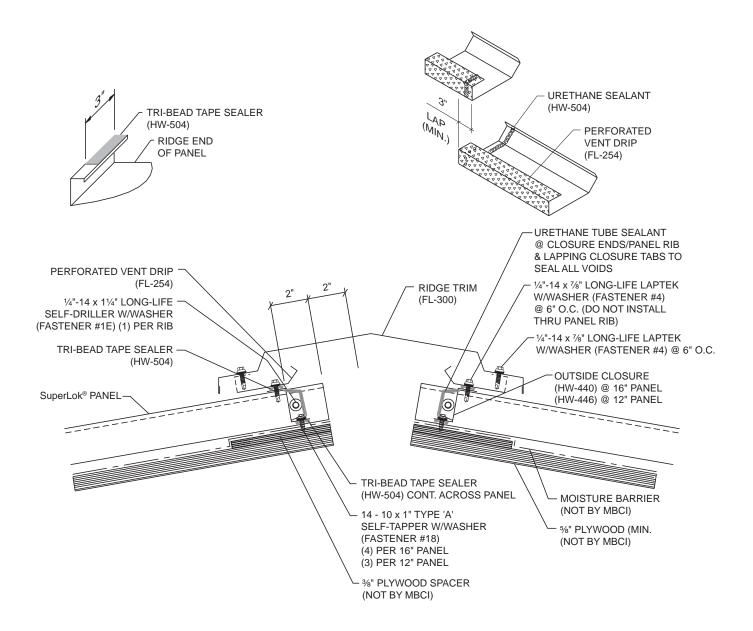


DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224 Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



WOOD DECK FIXED VENTED RIDGE



Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

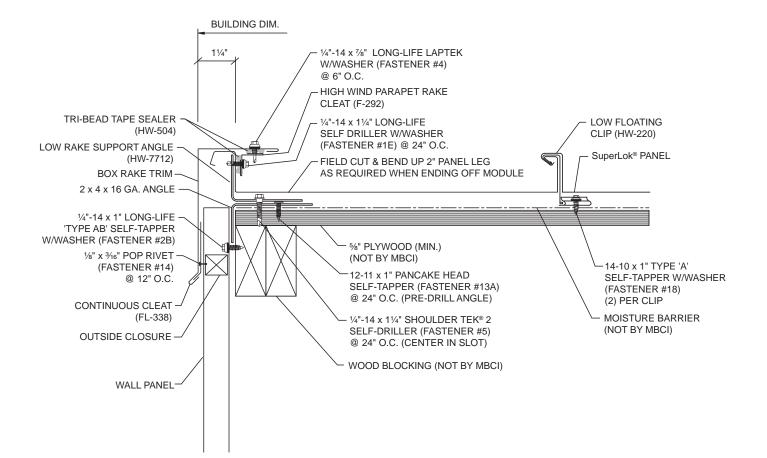




SuperLok[®]







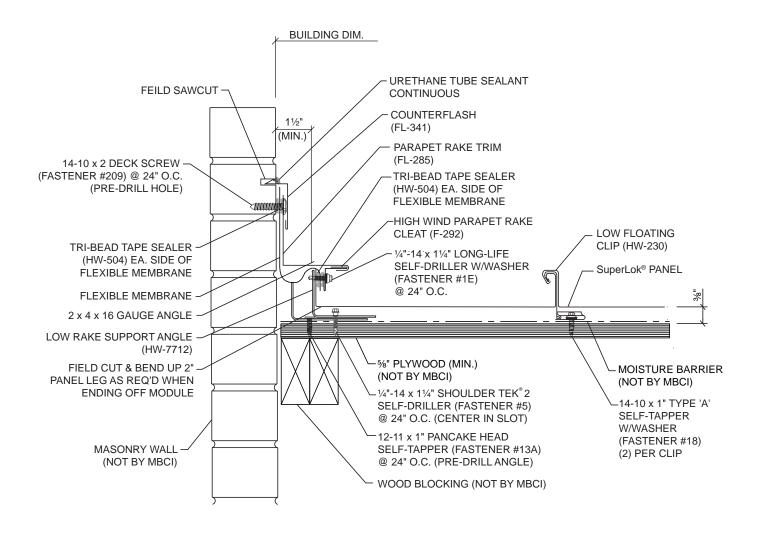


DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224 Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



WOOD DECK PARAPET RAKE



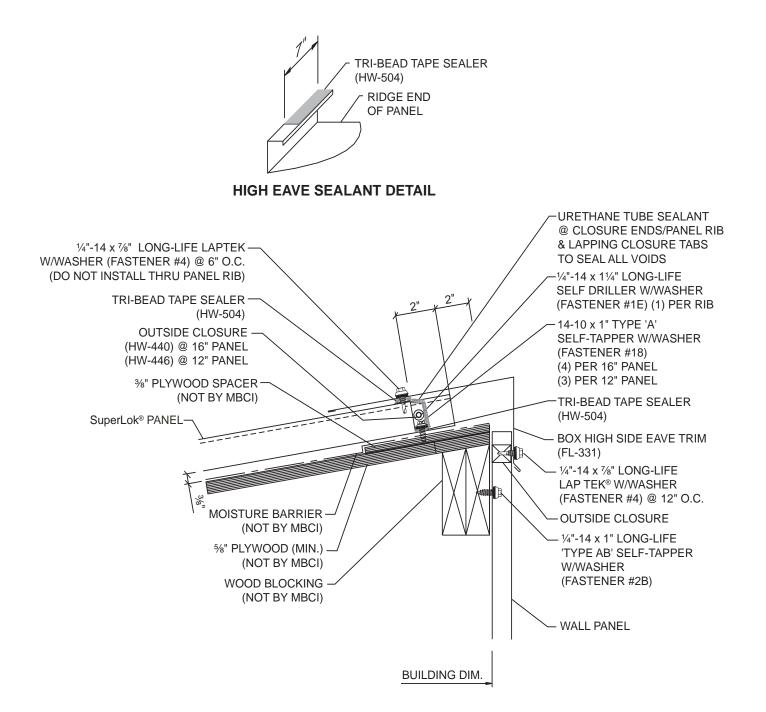
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224





SuperLok[®]



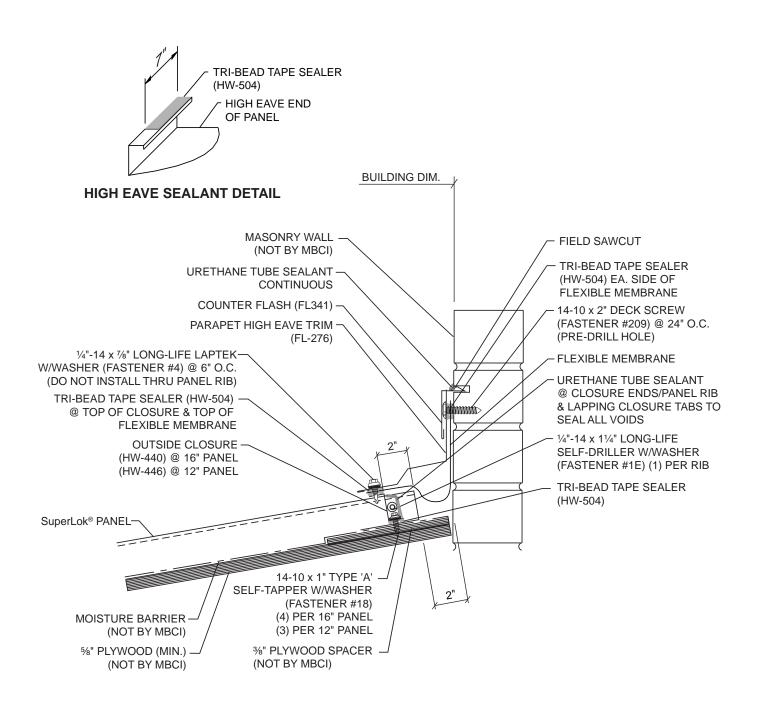




Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



DETAILS wood deck



PARAPET FIXED HIGH SIDE EAVE

Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

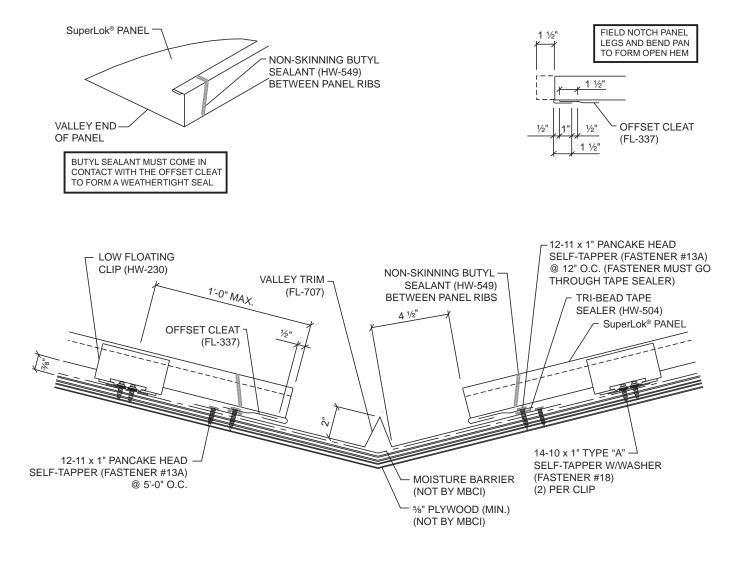


DET

'AILS

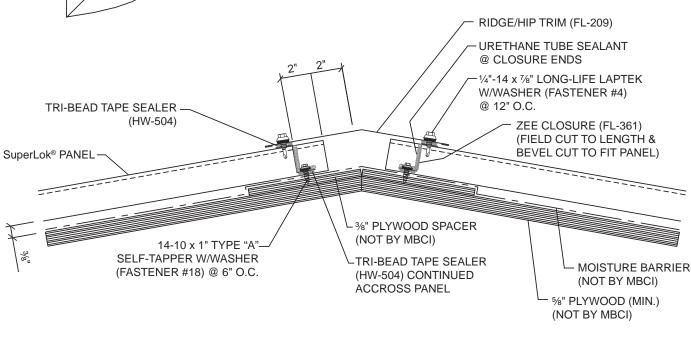
SuperLok[®]





NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12





WOOD DECK FIXED HIP



DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224

TRI-BEAD TAPE SEALER

(HW-504) / HIP END OF PANEL Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224

SuperLok[®]

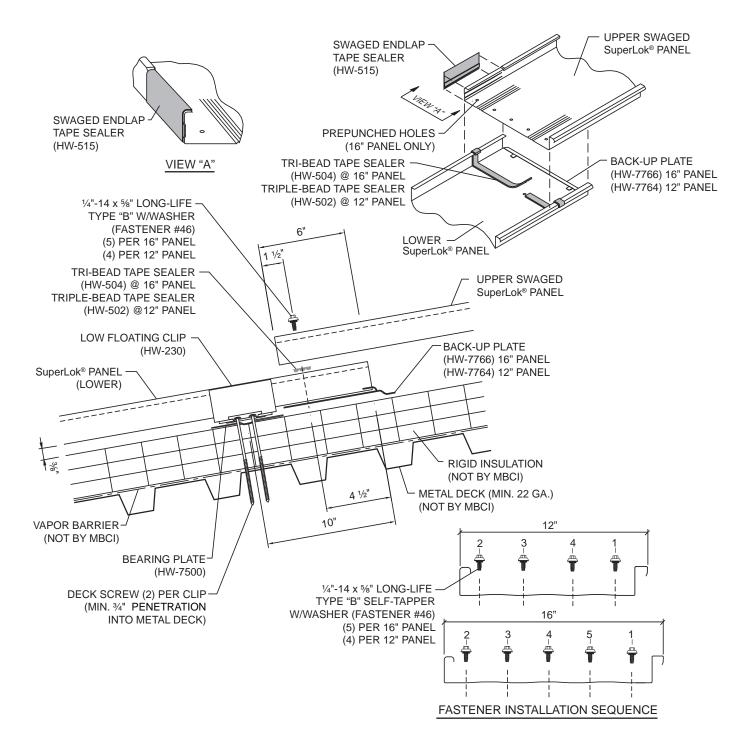
SuperLok[®]

Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



DETAILS

RIGID INSULATION OVER METAL DECK FLOATING ENDLAP



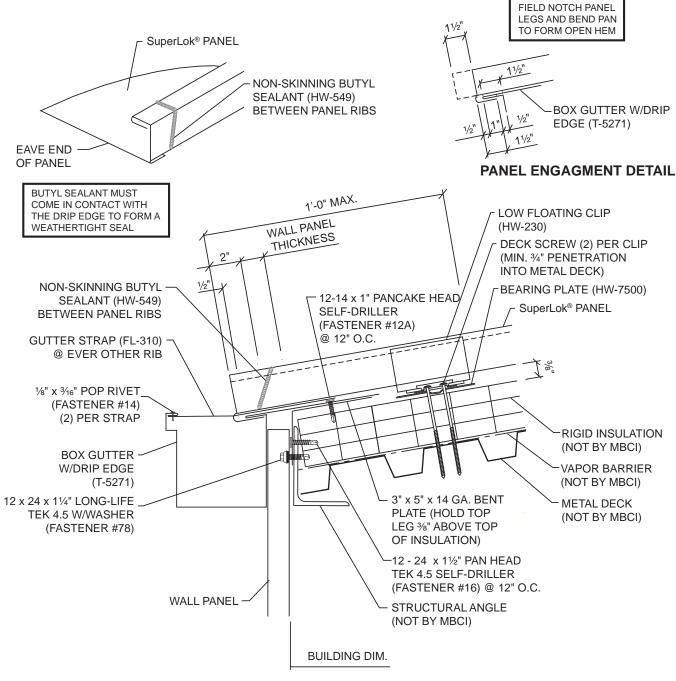


DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224 Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



RIGID INSULATION OVER METAL DECK FLOATING EAVE WITH BOX GUTTER



NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

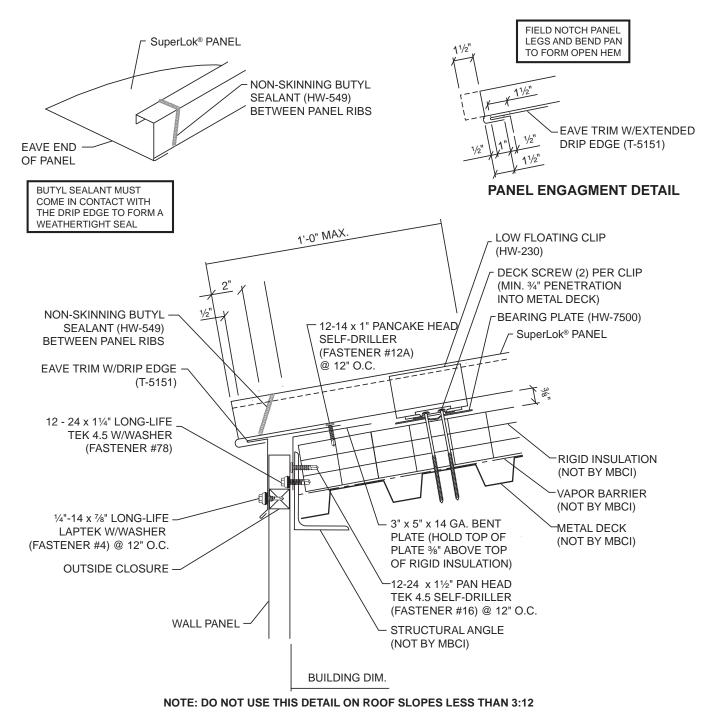
Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



SuperLok[®]



RIGID INSULATION OVER METAL DECK FLOATING EAVE WITH EAVE TRIM WITH EXTENDED DRIP EDGE



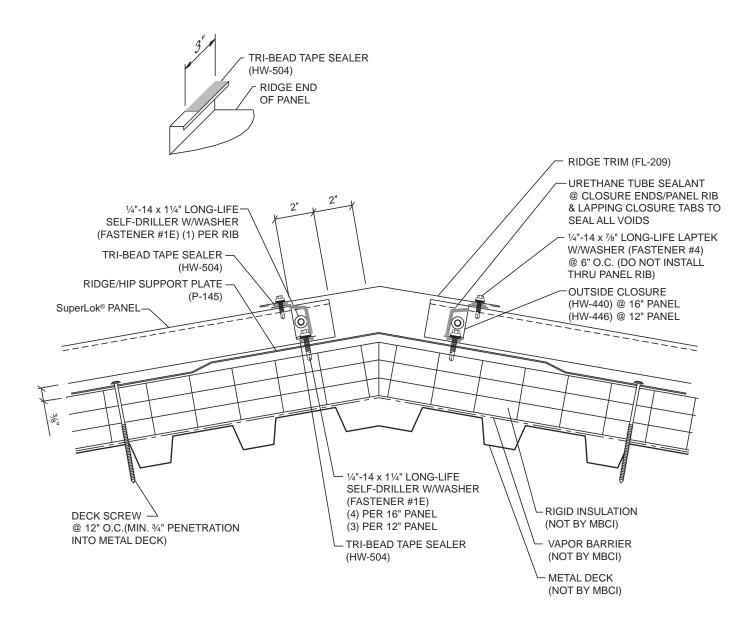


DETAILS

Houston, TX 877-713-6224 Adel, GA 888-446-6224 Atlanta, GA 877-512-6224 Atwater, CA 800-829-9324 Dallas, TX 800-653-6224 Indianapolis, IN 800-735-6224 Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



RIGID INSULATION OVER METAL DECK FIXED RIDGE



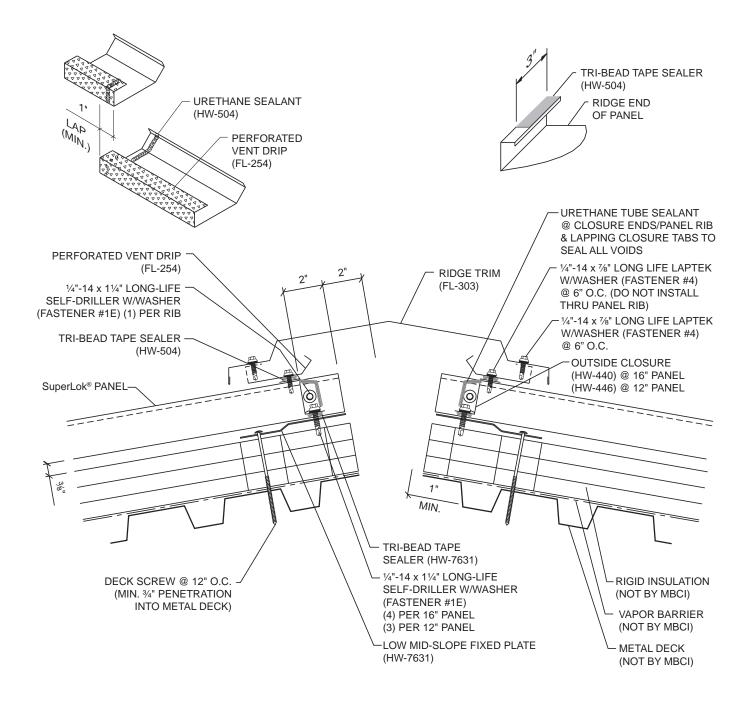
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RIGID INSULATION OVER METAL DECK FIXED VENTED RIDGE



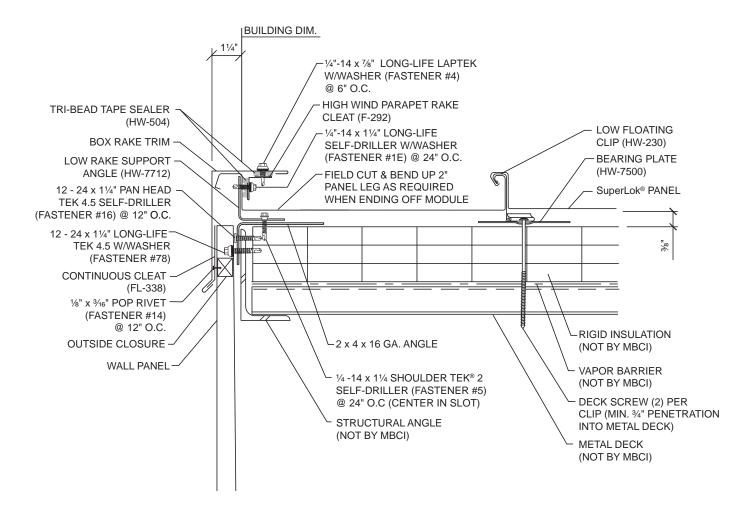


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BOX RAKE



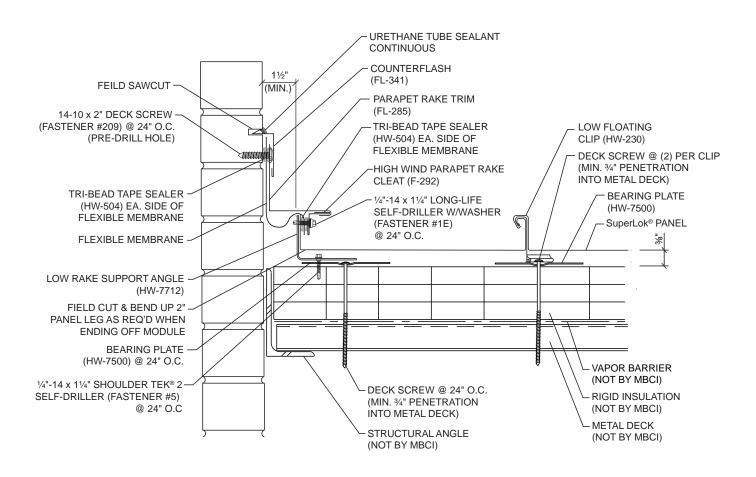
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ARCHITECTURAL DETAILS



RIGID INSULATION OVER METAL DECK PARAPET RAKE



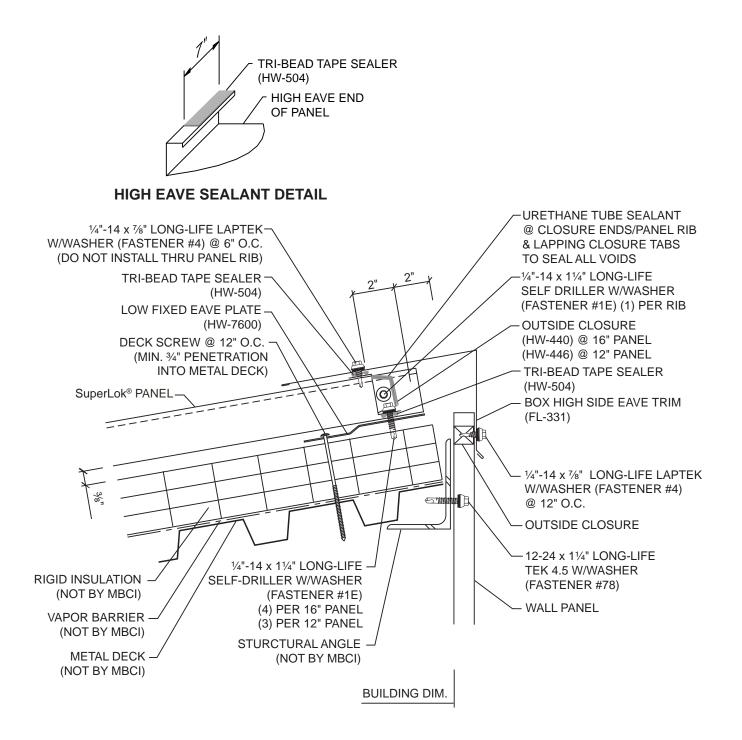


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RIGID INSULATION OVER METAL DECK FIXED BOX HIGH SIDE EAVE



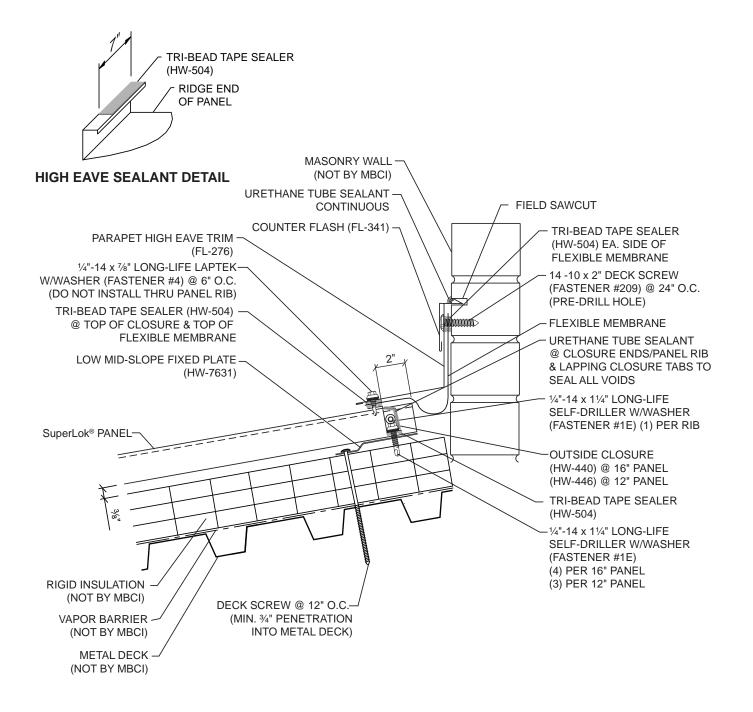
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ARCHITECTURAL DETAILS



RIGID INSULATION OVER METAL DECK PARAPET FIXED HIGH SIDE EAVE



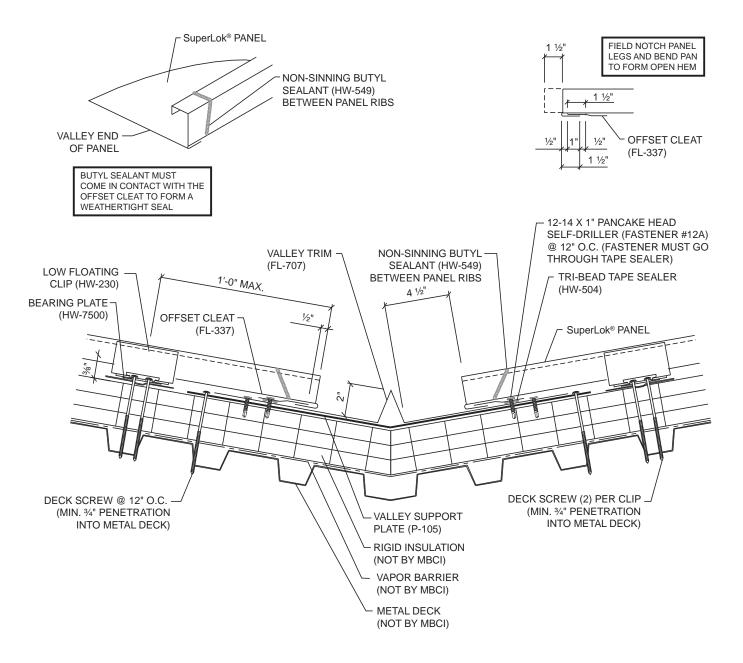


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ARCHITECTURAL DETAILS

FLOATING VALLEY



NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

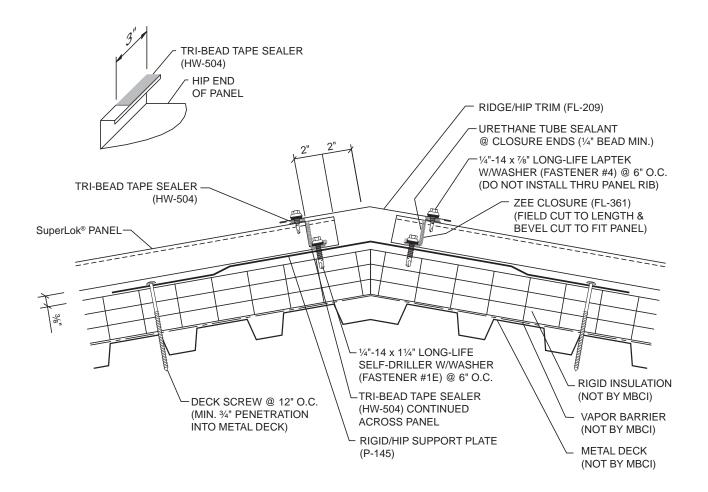
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ARCHITECTURAL DETAILS



RIGID INSULATION OVER METAL DECK FIXED HIP





Jackson, MS 800-622-4136 Lubbock, TX 800-758-6224 Memphis, TN 800-206-6224 Oklahoma City, OK 800-597-6224 Omaha, NE 800-458-6224 Phoenix, AZ 888-533-6224 Richmond, VA 800-729-6224 Rome, NY 800-559-6224 Salt Lake City, UT 800-874-2404 San Antonio, TX 800-598-6224



GENERAL INFORMATION

PROPER HANDLING, STORAGE AND MAINTENANCE OF PAINTED AND GALVALUME PLUS® PANELS PANEL HANDLING

- All panel bundles must be inspected during unloading and carrier advised immediately if damage is noted.
- Never unload or move panel bundles that have been opened without adequately clamping them. Without the banding to hold the bundle stable, panels may shift during unloading or movement, causing the bundle to fall.
- Never use wire slings to unload or move panel bundles.
- When unloading or moving panel bundles over 20' long, a spreader bar may be required. It is the erector's responsibility to determine the location and number of lift points required to safely unload or move panel bundles.
- When handling individual panels, always wear protective gloves. OSHA safety regulations must be followed at all times.
- When cutting panels, always wear all required safety equipment such as safety glasses and gloves. Cut panels with
 nibblers, shears or snips. Do not use abrasive blade saws as these will melt the Galvalume[®] coating causing the panel to
 edge rust which will void the Galvalume[®] and Paint warranties. Drilling fasteners into panels will create metal filings that
 will rust and create an unsightly stain. Metal filings must removed by sweeping or wiping down panels immediately after
 installation to avoid this occurrence.

PANEL STORAGE

- If water is permitted to enter panel bundles, it is necessary to open bundles, separate the panels and dry all surfaces.
- Store bundled panels off the ground sufficiently high to allow air circulation beneath bundle and to prevent rising water from entering bundle. Slightly elevate one end of bundle.
- Prevent rain from entering bundle by covering with tarpaulin, making provision for air circulation between draped edges of tarpaulin and the ground.
- Prolonged storage of panels in a bundle is not recommended. If conditions do not permit immediate erection, extra care should be taken to protect panels from white rust or water marks. If panels have not been erected within three weeks of receipt, the panels should be removed from the bundle for inspection. Condensation may cause damage to panels. The manufacturer's Paint and Galvalume[®] warranties do not cover damage caused by improper panel storage.

PANEL MAINTENANCE

- Never allow Galvalume[®] panels to come into contact with or water runoff from dissimilar materials such as copper, lead, or graphite. These materials will cause galvanic corrosion of the panels and will void the Galvalume[®] warranty. This includes treated wood and AC condensate, both of which contain copper compounds. This also applies to painted panels.
- Always use long life fasteners in all exposed fastener applications. Non long life fasteners can rust through the panel at
 each exposed fastener location. Use of non long life fasteners in exposed applications will void the Galvalume[®] and Paint
 warranties.
- Panels should be protected against exposure to masonry products, strong acids or bases and solvents. Exposure to these agents may etch or stain Galvalume Plus[®] panels and cause painted panels to blister or peel.
- Never allow anyone to apply any coating or patching material to the panel surface. These products may contain chemicals that will adversely affect the Galvalume Plus[®] or paint coating. Also, water may become trapped between the coating material and the panel, causing premature corrosion.

If you have any question as to proper methods to use in the handling, storage or maintenance of these panels, call your nearest manufacturer representative.

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ERAL INFORMATION

- **SuperLok**[®]
- Never allow anyone to apply any coating or patching material to the panel surface. These products may contain chemicals that will adversely affect the Galvalume Plus[®] or paint coating. Also, water may become trapped between the coating material and the panel, causing premature corrosion.

If you have any question as to proper methods to use in the handling, storage or maintenance of these panels, call your nearest manufacturer representative.

NOTICE

Uniform visual appearance of Galvalume Plus[®] coated panels cannot be guaranteed. The Galvalume Plus[®] coating is subject to variances in spangle from coil to coil which may result in a noticeable shade variation in installed panels. The Galvalume Plus[®] coating is also subject to differential weathering after panel installation. Panels may appear to be different shades due to this weathering characteristic. If uniform visual appearance is required, the manufacturer recommends that our prepainted Signature[®] 200 or Signature[®] 300 panels be used in lieu of Galvalume Plus[®]. Shade variations in panels manufactured from Galvalume Plus[®] coated material do not diminish the structural integrity of the product. These shade variations should be anticipated and are not a cause for rejection.

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Houston, TX

14031 West Hardy P.O. Box 38217 Houston, TX 77238 877-713-6224

Dallas, TX 1804 Jack McKay Blvd. P.O. Box 1210 Ennis, TX 75120 800-653-6224

Oklahoma City, OK 7000 S. Eastern Avenue P.O. Box 95998 Oklahoma City, OK 73143 800-597-6224

Rome, NY 6168 State Route 233 P.O. Box 4141 Rome, NY 13442 800-559-6224 Adel, GA 1601 Rogers Road P.O. Box 1107 Adel, GA 31620 888-446-6224

Indianapolis, IN 1780 McCall Drive P.O. Box 657 Shelbyville, IN 46176 800-735-6224

Omaha, NE 1011 Ellison Avenue Omaha, NE 68119 800-458-6224

Salt Lake City, UT 1155 West 2300 North P.O. Box 16027 Salt Lake City, UT 84116 800-874-2404 Atlanta, GA 2280 Monier Avenue P.O. Box 44729 Atlanta, GA 30336 877-512-6224

Lubbock, TX 5711 East FM-40 P.O. Box 10133 Lubbock, TX 79408 800-758-6224

Phoenix, AZ 660 South 91st Avenue P.O. Box 739 Tolleson, AZ 85353 888-533-6224

San Antonio, TX 8677 I-10 East P.O. Box 69 Converse, TX 78109 800-598-6224 Atwater, CA 550 Industry Way P.O. Box 793 Atwater, CA 95301 800-829-9324

Memphis, TN 300 Highway 51 North P.O. Box 366 Hernando, MS 38632 800-206-6224

Richmond, VA 801 South Avenue P.O. Box 239 Colonial Heights, VA 23834 800-729-6224

