



SuperLok[®]

Mechanically Seamed Roof System

Technical Installation Information

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 its 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 through 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, Ceco 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.cecobuildings.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 drawings will take precedence.

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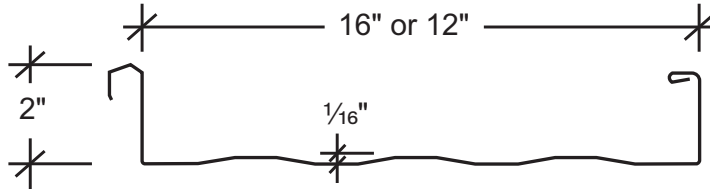
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SuperLok®

ROOFING SYSTEM

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

PRODUCT SELECTION CHART

PRODUCT	Signature® 300 Metallic		Signature® 300		Signature® 200		Galvalume Plus®	
	24 Ga.	22 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.
SuperLok® HS								
16" Wide	■	■	■	■	■	■	●	■
12" Wide	■	■	■	■	■	■	●	■

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.

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.
2. **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 (¼" in 20', ⅜" 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 1¼" ("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.**

SuperLok®

ENGINEERING

**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 $\frac{3}{8}$ " thermal spacer. **See Insulation/Thermal Spacer Selection Chart below.**

High Floating System - With $\frac{3}{8}$ ", $\frac{5}{8}$ " 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	$\frac{3}{8}$ " Thermal Spacer	High System Not Recommended
3" Insulation	Thermal Spacer Not Recommended	$\frac{5}{8}$ " Thermal Spacer
4" Insulation	Thermal Spacer Not Recommended	$\frac{3}{8}$ " 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.

ENGINEERING

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UNDERWRITERS LABORATORIES APPROVAL

SuperLok®

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.
4. The panel system qualifies under the following Fire Resistance Design Numbers: P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P720, P722, P726, P731, P734, 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".

FACTORY MUTUAL APPROVAL

SuperLok®

Panel Width	Gauge	Clip Type	Clip Spacing	Hail Damage Rating	ASTM E108 Fire Rating	FM Windstorm Rating
16	24	Floating	4'-0"	Class 1-SH	Class A	Class 1-90
16	22	Floating	5'-0"	Class 1-SH	Class A	Class 1-105
16	22	Floating	4'-0"	Class 1-SH	Class A	Class 1-135

NOTES:

1. Tests procedures are in accordance with Factory Mutual Research Corporation (FMRC) Standard 4471.
2. A detailed test report is available for each product above. The panels must be installed in a specific manner to achieve the published results. Contact MBCI for more information.

SuperLok® is a registered trademark of NCI Building Systems, L.P.

Galvalume® is a registered trademark of BIEC International, Inc.

Vise-Grip® is a registered trademark of American Tool Companies, Inc.

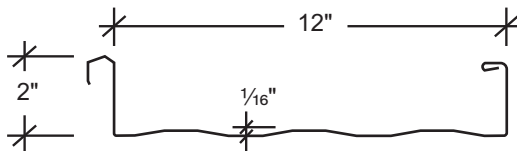
FLORIDA BUILDING CODE PRODUCT APPROVAL

Double-Lok® Roofing System details and engineering load tables have been examined by the State of Florida and comply with the 2010 Florida Building Code Product Approval Number (FL#11819.4).

SuperLok®

ENGINEERING

SuperLok® Panel



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
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:

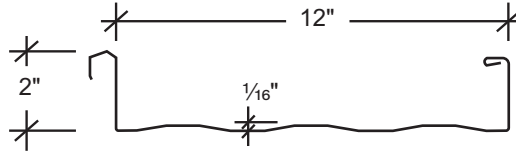
1. All calculations for the properties of SuperLok panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. Ixe is for deflection determination.
3. Sxe is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

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.

ENGINEERING

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:

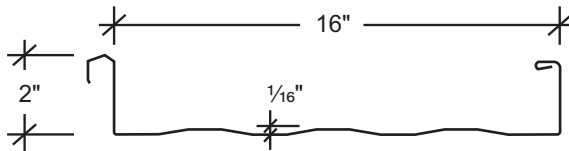
1. THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
2. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
3. Allowable loads are applicable for uniform loading and spans without overhangs.
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 tha 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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ENGINEERING

SuperLok® Panel



SECTION PROPERTIES

			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
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:

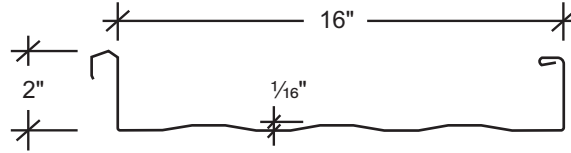
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ENGINEERING

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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	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.
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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.
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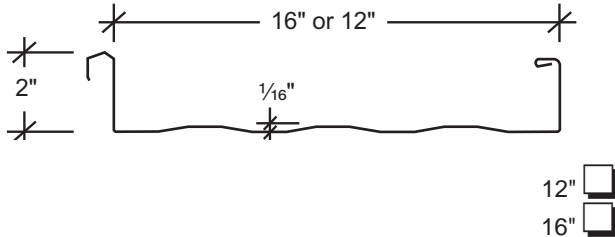
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SuperLok®

GENERAL INFORMATION

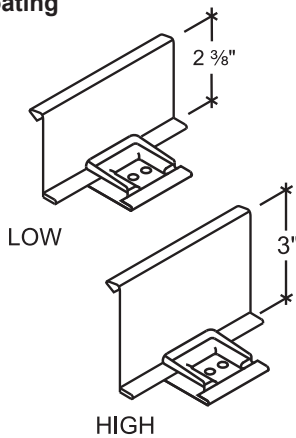
PRODUCT CHECKLIST

SuperLok® Panel



12" ☐
 16" ☐

Clip, Floating



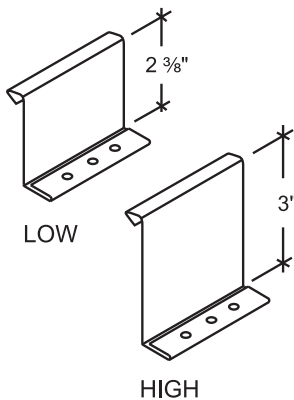
- Low – For use with or without $\frac{3}{8}$ " thermal spacer.

HW-230 ☐

- High – For use with $\frac{3}{8}$ ", $\frac{5}{8}$ " or 1" thermal spacer.

HW-232 ☐

Clip, Fixed



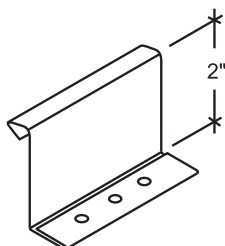
- Low – For use with or without $\frac{3}{8}$ " thermal spacer

HW-236 ☐

- High – For use with $\frac{3}{8}$ ", $\frac{5}{8}$ " or 1" thermal spacer

HW-234 ☐

Clip, Utility

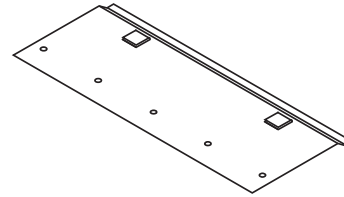


- For applications that do not require the clearance provided by the low and high clips.

HW-238 ☐

Back-Up Plate

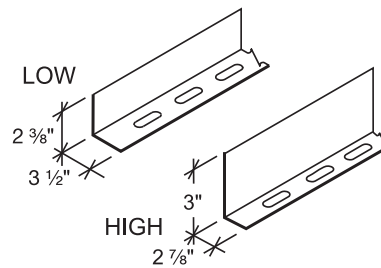
- For use at ridge and endlaps
- Prepunched
- 16 gauge red oxide



12" Wide HW-7764 ☐
 16" Wide HW-7766 ☐

Rake Support

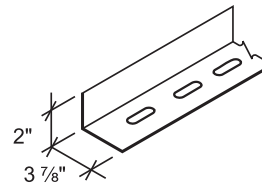
- 20'-0" length
- 14 gauge red oxide
- Factory slots
- For use with low or high clip



HW-7712 - Low ☐
 HW-7722 - High ☐

Rake Support Utility

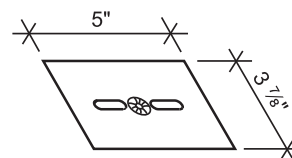
- 20'-0" length
- 14 gauge red oxide
- Factory slots
- For use with utility clip



HW-7732 ☐

Bearing Plate Standard

- 16 gauge red oxide
- For use with low or utility systems
- For use with rigid board insulation

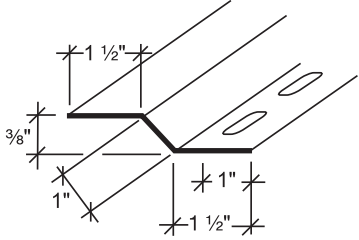
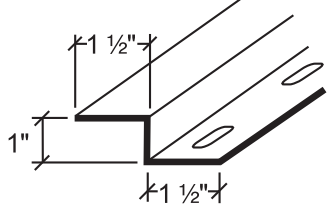
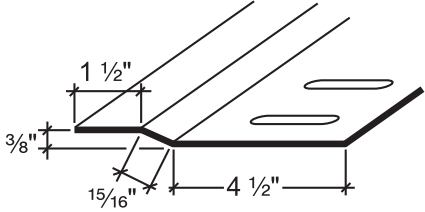
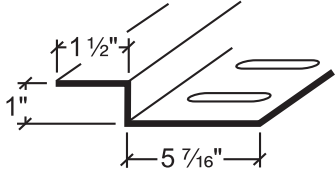
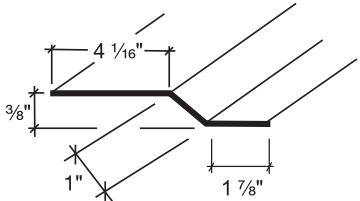
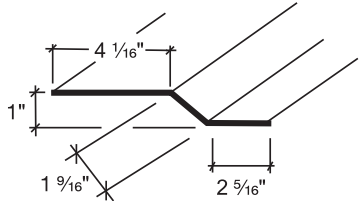


HW-7500 ☐

GENERAL INFORMATION

SuperLok®

PRODUCT CHECKLIST

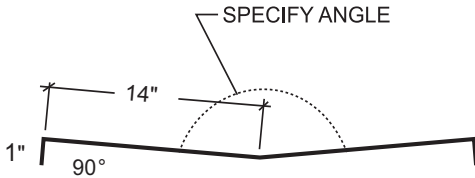
<p>Eave Plate, Low</p> <ul style="list-style-type: none"> • 8'-0" length • 14 gauge • Red Oxide  <p>HW-7600 <input type="checkbox"/></p>	<p>Eave Plate, High</p> <ul style="list-style-type: none"> • 8'-0" length • 14 gauge • Red Oxide  <p>HW-7616 <input type="checkbox"/></p>
<p>Floating Eave Plate, Low</p> <ul style="list-style-type: none"> • 8'-0" length • 14 gauge • Red Oxide  <p>HW-7617 <input type="checkbox"/></p>	<p>Floating Eave Plate, High</p> <ul style="list-style-type: none"> • 8'-0" length • 14 gauge • Red Oxide  <p>HW-7618 <input type="checkbox"/></p>
<p>Mid-Slope Fixed Plate, Low</p> <ul style="list-style-type: none"> • 14 gauge • Red Oxide  <p>HW-7630 (10'-0" Long) <input type="checkbox"/> HW-7631 (20'-0" Long) <input type="checkbox"/> HW-7632 (6'-0" Long) <input type="checkbox"/></p>	<p>Mid-Slope Fixed Plate, High</p> <ul style="list-style-type: none"> • 14 gauge • Red Oxide  <p>HW-7637 (6'-0" Long) <input type="checkbox"/> HW-7638 (10'-0" Long) <input type="checkbox"/> HW-7639 (20'-0" Long) <input type="checkbox"/></p>

SuperLok®

GENERAL INFORMATION

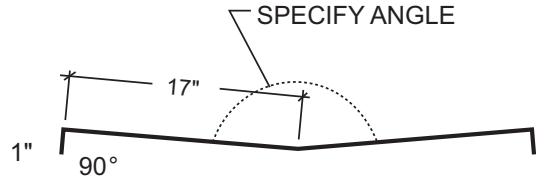
PRODUCT CHECKLIST

Valley Support Plate – Low or Utility Systems



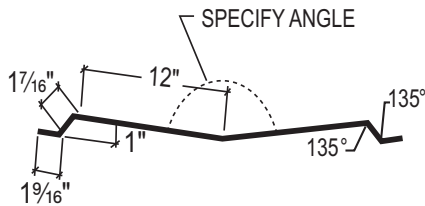
- Standard Width
 - Use Over Purlins/Joists
- 10'-0" Long P-106 ☐

Extended Valley Support Plate – Low or Utility Systems



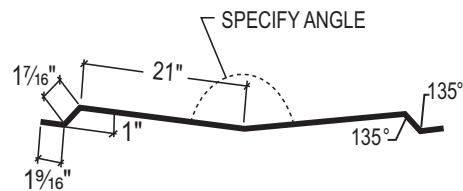
- Extended Width
 - Use Over Purlins/Joists
- 10'-0" Long P-101 ☐

Valley Support Plate - High Systems



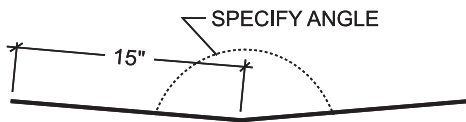
- Standard Width
 - Use Over Purlins/Joists
- 10'-0" Long P-164 ☐

Valley Support Plate – High Systems



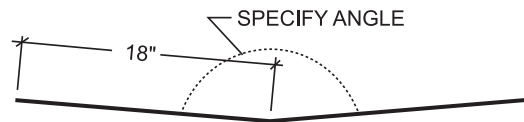
- Extended Width
 - Use Over Purlins/Joists
- 10'-0" Long P-162 ☐

Valley Support Plate – Low or Utility Systems



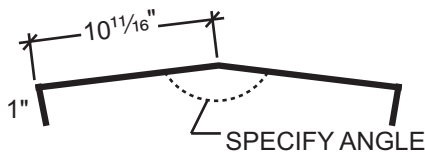
- Standard Width
 - Use Over Rigid Insulation
- 10'-0" Long P-105 ☐

Valley Support Plate – Low or Utility Systems



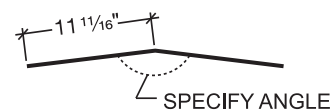
- Extended Width
 - Use Over Rigid Insulation
- 10'-0" Long P-100 ☐

Hip Support Plate - High or Low Floating Systems



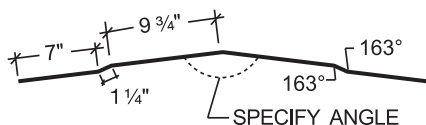
- Use Over Purlins/Joists
- 10'-0" Long P-141 ☐

Hip Support Plate – Low Floating Systems



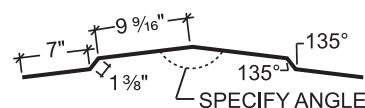
- Use Over Solid Substrate
- 10'-0" Long P-140 ☐

Ridge/Hip Support Plate – Low Fixed Systems



- Use with all Substrates
- 10'-0" Long P-145 ☐

Ridge/Hip Support Plate – High Fixed Systems



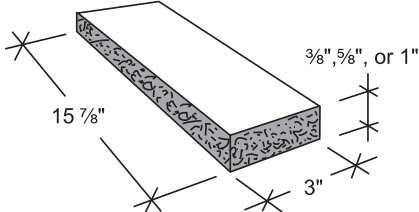
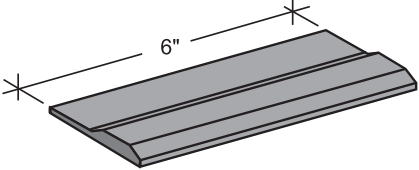
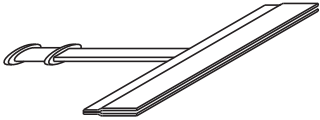
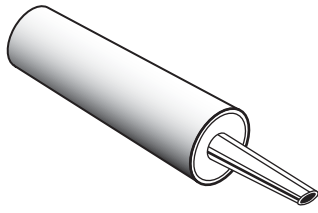
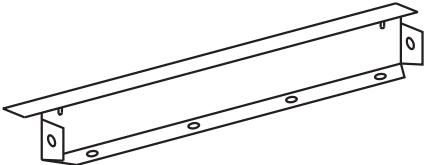
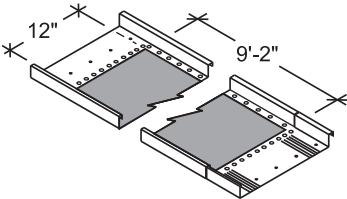


- Use with all Substrates
- 10'-0" Long P-155 ☐

GENERAL INFORMATION

SuperLok®

PRODUCT CHECKLIST

<p>Tape Sealer</p> <ul style="list-style-type: none"> • $\frac{3}{16}$" x 2 $\frac{1}{2}$" x 20' • For use at valley when using exposed fasteners • For use with roof curbs  <p>Triple Bead</p> <p>HW-502 <input type="checkbox"/></p>  <p>Tri-Bead</p> <ul style="list-style-type: none"> • $\frac{3}{16}$" x $\frac{7}{8}$" x 25' • For use at eave, ridge, endlaps and trim connections <p>HW-504 <input type="checkbox"/></p>	<p>Thermal Spacer</p> <ul style="list-style-type: none"> • Polystyrene block used to increase the insulation capacity along the purlins  <p>HW-583 $\frac{3}{8}$" <input type="checkbox"/> HW-582 $\frac{5}{8}$" <input type="checkbox"/> HW-581 1" <input type="checkbox"/></p>	
<p>Tape Sealer-Swaged</p>  <p>HW-515 <input type="checkbox"/></p>	<p>Panel Hemming Tool</p>  <p>HW-602 <input type="checkbox"/></p>	<p>Tube Sealant</p>  <p>Urethane (White) - HW-540 <input type="checkbox"/> Urethane (Gray) - HW-541 <input type="checkbox"/> Urethane (Bronze) - HW-542 <input type="checkbox"/> Non-Skinning Butyl - HW-549 <input type="checkbox"/></p>
<p>Outside Closure</p> <ul style="list-style-type: none"> • 24 gauge • Painted  <p>12" wide HW-446 <input type="checkbox"/> 16" wide HW-440 <input type="checkbox"/></p>	<p>Light Transmitting Panel (Reinforced) ‡</p>  <ul style="list-style-type: none"> • Std. Insulated - HW- 1621S <input type="checkbox"/> • Std. Uninsulated - HW-1620S <input type="checkbox"/> • UL 90 Insulated - HW-1617S <input type="checkbox"/> • UL 90 Uninsulated - HW-1616S <input type="checkbox"/> 	

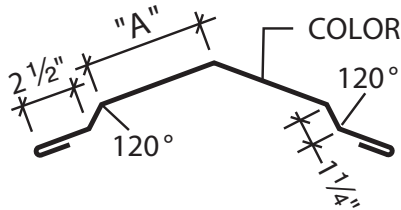
‡ It is the user's responsibility to ensure that the installation and use of all light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls that prevent fall-through.

SuperLok®

GENERAL INFORMATION

PRODUCT CHECKLIST

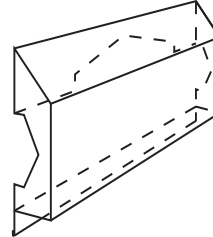
Ridge Flashing



PART NO.	ROOF PITCH	DIM. "A"	NOTE
FL-200	1/2-3 3/4:12	3 1/2"	For use without ventilator 18" Peak purlin spacing
FL-202	3 13/16-6:12	4 1/2"	
FL-213	1/2-3 3/4:12	6 1/2"	For use without ventilator 24" Peak purlin spacing
FL-214	3 13/16-6:12	7 1/2"	



Floating Peak Box



- Includes Cinch Angles and Flexible Membrane
- Specify Roof Slope

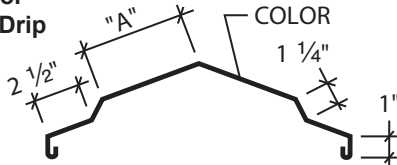
FL-125 ☐
 Length - 2'-1"
 Girth - 33 1/4"

- For use with FL-200, FL-202, FL-213, FL-214, FL-300, FL-302, FL-540 or FL-541 Ridge Flashing

FL-126 ☐
 Length - 2'-6"
 Girth - 37 1/4"

- For use with FL-205, FL-207, FL-303, FL-304, FL-543 or FL-544 Ridge Flashing

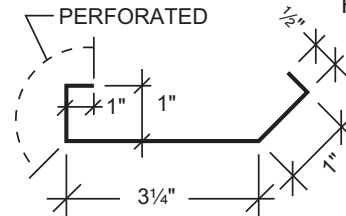
Ridge Flashing for Perforated Vent Drip



PART NO.	ROOF PITCH	DIM. "A"	NOTE
FL-300	1/2-3 3/4:12	4 1/2"	For use with perforated vent drip (FL-254) 18" Peak purlin spacing
FL-302	3 13/16-6:12	5 1/2"	
FL-303	1/2-3 3/4:12	7 1/2"	For use with perforated vent drip (FL-254) 24" Peak purlin spacing
FL-304	3 13/16-6:12	8 1/2"	



Perforated Vent Drip

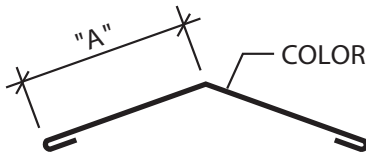


- Use with FL-300, FL-302, FL-303 or FL-304 Ridge Flashing

24 Gauge Material

FL-254 ☐

Ridge/Hip Flashing - Fixed

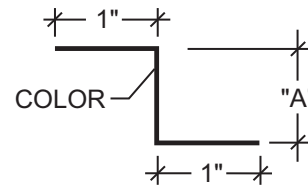


PART NO.	ROOF PITCH	DIM. "A"	NOTE
FL-209	1/2-3 3/4:12	6"	For use without vent material 18" Peak purlin spacing
FL-211	3 13/16-6:12	7"	
FL-212	All Pitches	11 1/2"	For use without vent material 24" Peak purlin spacing



"Z" Closure

- Use at Hips

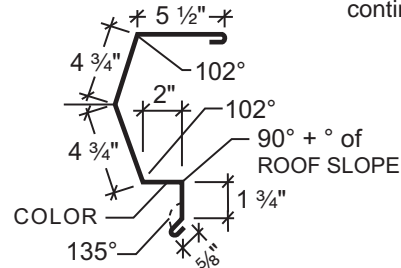


24 Gauge Material

FL-361 ☐

Sculptured High Side Eave Trim

- Specify open hem when using with continuous cleat

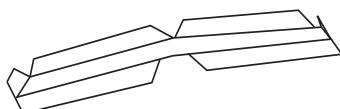


PART NO.	ROOF PITCH	DIM. A
FL-265	1/4-1 3/4:12	2"
FL-265B	1 13/16-4:12	3 11/16"



Ridge End Cap

- Specify Ridge to be used and Roof Slope



FL-201 ☐

GENERAL INFORMATION

SuperLok®

PRODUCT CHECKLIST

Sculptured Gutter - Standard

PART NO.	ROOF PITCH	DIM. "A"	GIRTH
FL-248A	1/2-4:12	7 5/16"	23 3/16"
FL-248B	4 9/16-6:12	7 15/16"	24 7/16"

Gutter Strap

- For use with Sculptured Gutter

Gutter Ends

Left or Right

- Use with all Sculptured or Style Gutters
- End Caps will be made to fit gutter ordered
- Specify left or right
- Specify gutter part number

Sculptured Rake Trim

FL-111

Variable Termination

FL-117

Rake Slide - High Wind

24 Gauge Material

FL-215

Sculptured Eave Trim

Specify Roof Pitch

FL-253

Eave with Extended Drip Edge

- Use with Roof Slopes 1/2 - 6:12
- Specify open hem when using with continuous cleat

SPECIFY ANGLE

T-5151

Box High Side Eave Trim

Specify Roof Pitch

FL-331

Box Eave Trim

- Specify open hem when using with continuous cleat

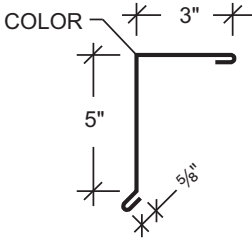
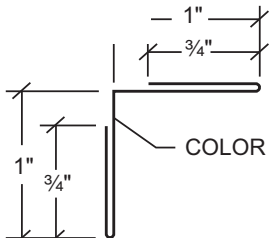
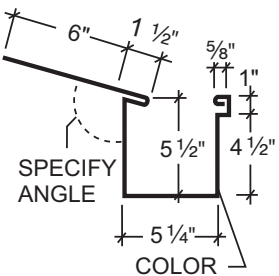
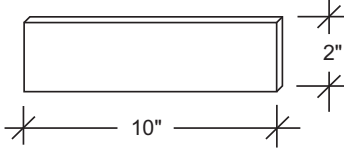

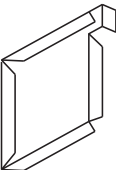
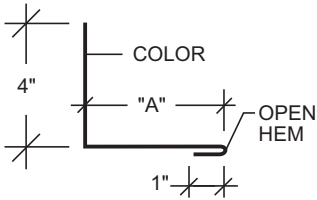
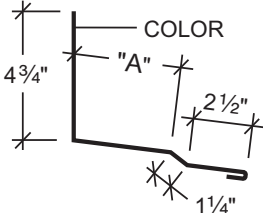
SPECIFY ANGLE

FL-326

SuperLok®

GENERAL INFORMATION

PRODUCT CHECKLIST

<p>Box Rake Trim</p>  <p>FL-306 <input type="checkbox"/></p>	<p>Parapet Rake Cleat - High Wind</p>  <p>F-292 <input type="checkbox"/></p>														
<p>Box Gutter with Drip Edge</p>  <p>Specify Roof Pitch</p> <p>T-5271 <input type="checkbox"/></p>	<p>Gutter Strap • For use with Box Gutter</p>  <p>24 Gauge Material</p> <p>FL310 <input type="checkbox"/></p>														
<p>Parapet High Side Eave Flashing - Fixed • Specify Roof Slope</p>  <p>FL-276 <input type="checkbox"/></p>	<p>Gutter Ends Left or Right</p> <ul style="list-style-type: none"> • Use with T-5271 Box Gutter with Drip Edge • Specify left or right  <p>T-5291 <input type="checkbox"/></p>														
<p>Parapet Rake Flash</p>  <table border="1"> <thead> <tr> <th>PART NO.</th> <th>DIM. A</th> </tr> </thead> <tbody> <tr> <td>FL-285</td> <td>3"</td> </tr> <tr> <td>FL-286</td> <td>5"</td> </tr> <tr> <td>FL-287</td> <td>7"</td> </tr> </tbody> </table>	PART NO.	DIM. A	FL-285	3"	FL-286	5"	FL-287	7"	<p>Parapet High Side Eave Flash - Floating</p>  <table border="1"> <thead> <tr> <th>PART NO.</th> <th>DIM. A</th> </tr> </thead> <tbody> <tr> <td>FL-275</td> <td>3 1/2"</td> </tr> <tr> <td>FL-274</td> <td>4 1/2"</td> </tr> </tbody> </table>	PART NO.	DIM. A	FL-275	3 1/2"	FL-274	4 1/2"
PART NO.	DIM. A														
FL-285	3"														
FL-286	5"														
FL-287	7"														
PART NO.	DIM. A														
FL-275	3 1/2"														
FL-274	4 1/2"														

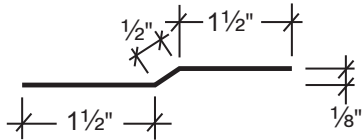
NOTE: All trim to be 26 gauge material unless noted. Refer to current price book for part numbers and descriptions.

GENERAL INFORMATION

SuperLok®

PRODUCT CHECKLIST

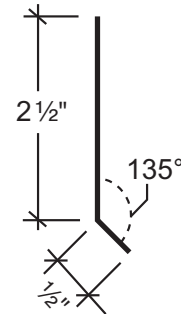
Offset Cleat



24 Gauge Material

FL-337 ☐

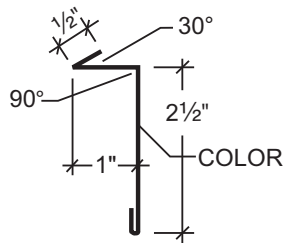
Continuous Cleat



24 Gauge Material

FL-338 ☐

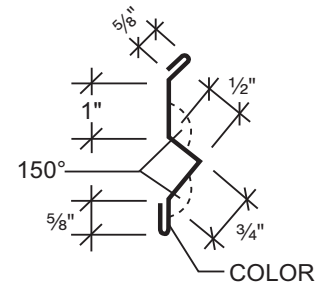
Counter Flash



24 Gauge Material

FL-341 ☐

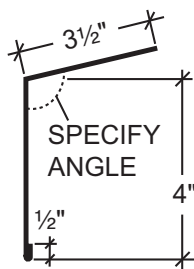
Alternate Counter Flash



24 Gauge Material

FL-343 ☐

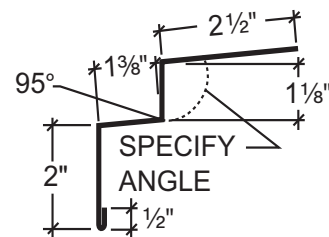
Box Panel Cap Trim



Specify Roof Pitch

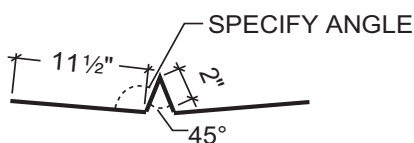
FL-272 ☐

Offset Panel Cap Trim



FL-271 ☐

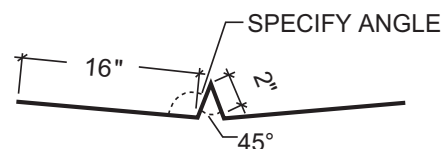
Standard Valley - Utility, Low and High Systems



24 Gauge Material

FL-705 ☐

Extended Valley - Utility, Low and High Systems




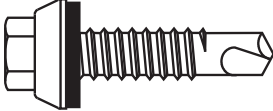
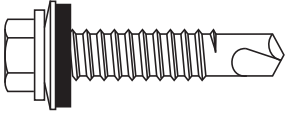
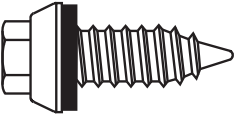



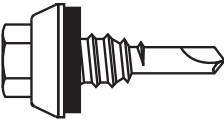

24 Gauge Material

FL-711 ☐

SuperLok®

GENERAL INFORMATION

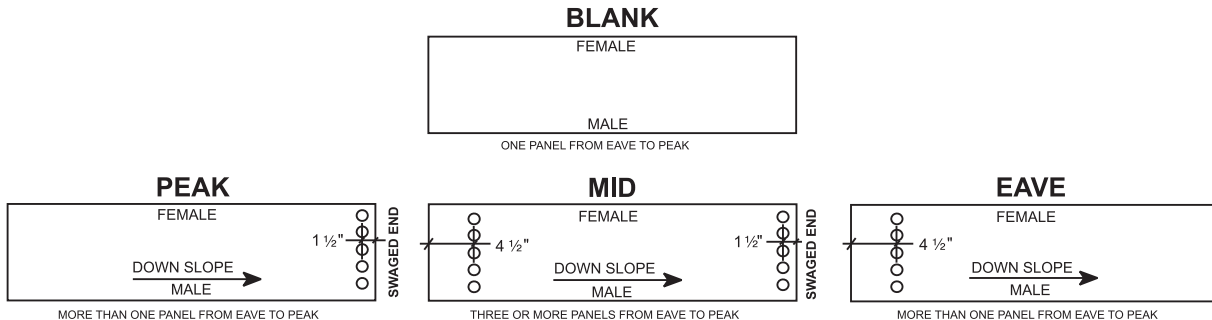
PRODUCT CHECKLIST

<p>Fastener #1B</p> <ul style="list-style-type: none"> Clip to purlin (Up to 4" insulation between panel and purlin)  <p>1/4"-14 x 1 1/4" Self Driller 5/16" Hex Washer Head with no washer</p>	<ul style="list-style-type: none"> Panel to eave plate or eave strut Rake trim to roof panel Standard endlaps Panel to valley plate Outside closure to panel with back-up plate or support plate  <p>1/4"-14 x 1 1/4" Long Life Self Driller 5/16" Hex Washer Head, with sealing washer</p>
<p>Fastener #1F</p> <ul style="list-style-type: none"> Clip to purlin (Over 4" insulation between panel and purlin)  <p>1/4"-14 x 1 1/2" Self Driller 5/16" Hex Head, with 5/8" O.D. washer</p>	<p>Fastener #2A</p> <ul style="list-style-type: none"> Use in place of Fasteners #1E, #2B and #4 at all strip outs  <p>17 x 1" Long Life AB 5/16" Hex Washer Head, with sealing washer</p>
<p>Fastener #2B</p> <ul style="list-style-type: none"> Endlap over plywood  <p>1/4"-14 x 1" Long Life AB 3/8" Hex Washer Head, with sealing washer</p>	<p>Fastener #6A</p> <ul style="list-style-type: none"> Clip to joist  <p>12-24 x 1 1/4" Tek® 5 Self Driller 5/16" Hex Washer Head, with no washer</p>
<p>Fastener #5</p> <ul style="list-style-type: none"> Rake support to purlin (Floating System Only) Floating eave plate to eave strut  <p>1/4"-14 x 1 1/4" Shoulder Tek® 2 Self Driller 5/16" Hex Washer Head, with no washer</p>	<p>Fastener #4</p> <ul style="list-style-type: none"> Ridge and other flashing to outside closure Gutter to panel Gutter to strap Trim to trim connections Sculptured eave trim to panel  <p>1/4"-14 x 7/8" Long Life Lap Tek® Self Driller 5/16" Hex Washer Head, with sealing washer</p>
<p>Fastener #11</p> <ul style="list-style-type: none"> Special application fastener For attaching trim to masonry walls  <p>1/4" x 1 1/4" Nail Drive Masonry Anchor</p>	

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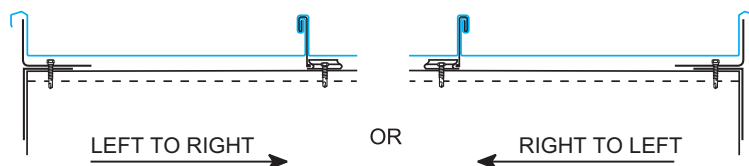
GENERAL INFORMATION

SuperLok® Panel Orientation

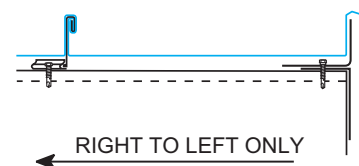


INSTALLATION GUIDELINES

- 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.**



**SHEETING DIRECTION FOR
ROOFS WITHOUT PANEL
ENDLAPS**



**SHEETING DIRECTION FOR
ROOFS WITH PANEL
ENDLAPS**

GENERAL INFORMATION

SuperLok®

PREPARATORY REQUIREMENTS

1. 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 ($\frac{1}{4}$ " in 20' or $\frac{3}{8}$ " 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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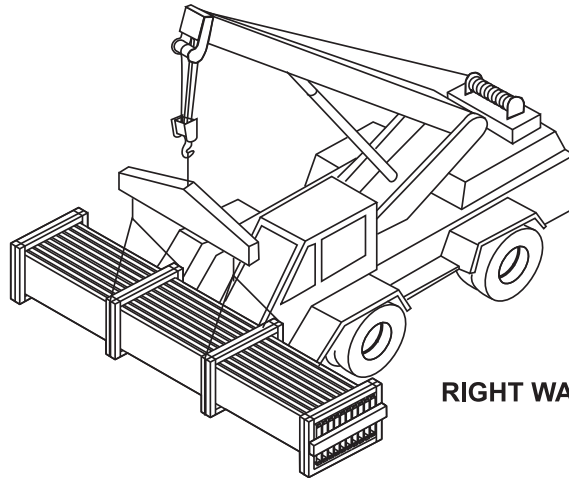
GENERAL INFORMATION

UNLOADING

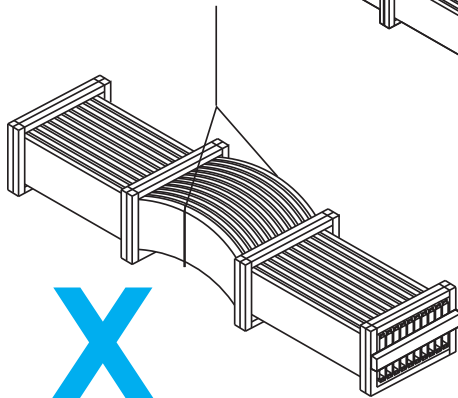
Upon receiving material, check shipment against shipping list for shortages and damages. The manufacturer will not be responsible for shortages or damages unless they are noted on the shipping list.

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.

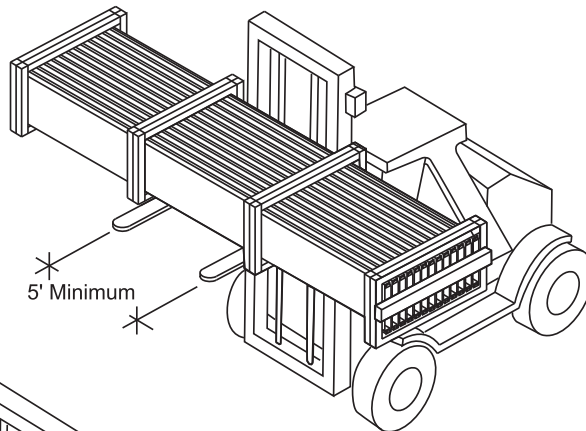
When lifting bundles with a crane, a spreader bar and nylon straps should be used. **NEVER USE WIRE ROPE SLINGS, THEY WILL DAMAGE THE PANELS.**



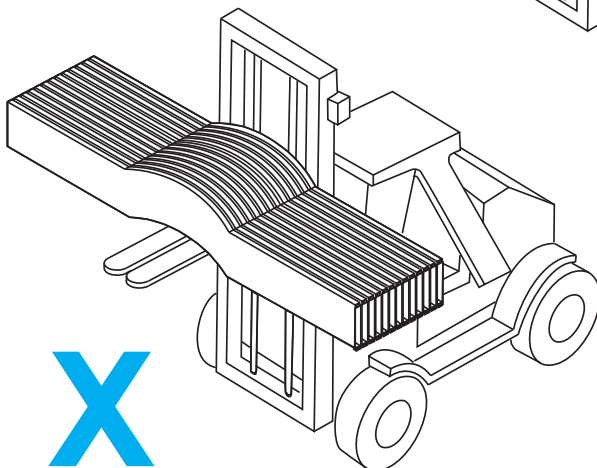
RIGHT WAY



X
WRONG WAY



RIGHT WAY



X
WRONG WAY

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.

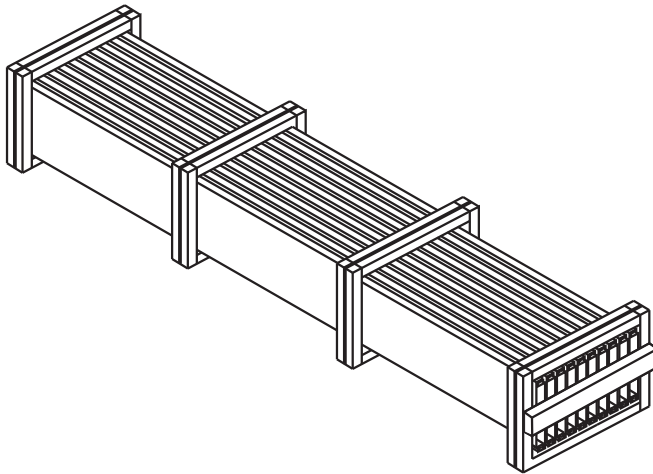
CAUTION

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.

GENERAL INFORMATION

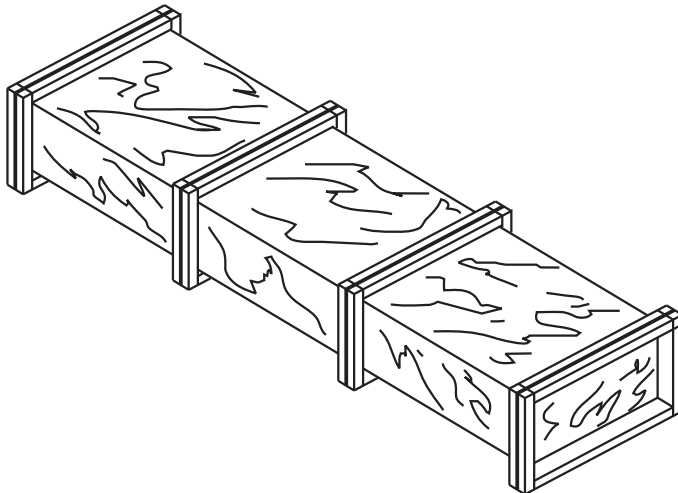
SuperLok®

UNLOADING (Continued)



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.

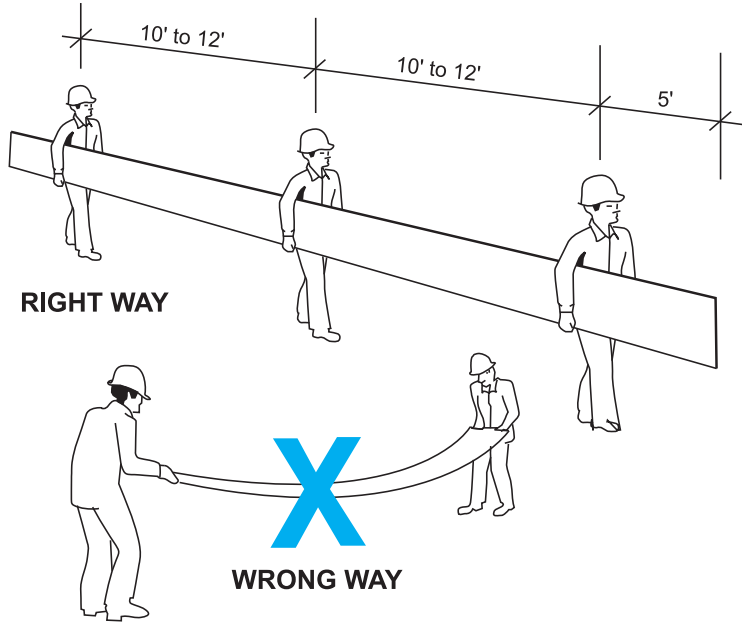
SuperLok®

GENERAL INFORMATION

HANDLING/PANEL STORAGE

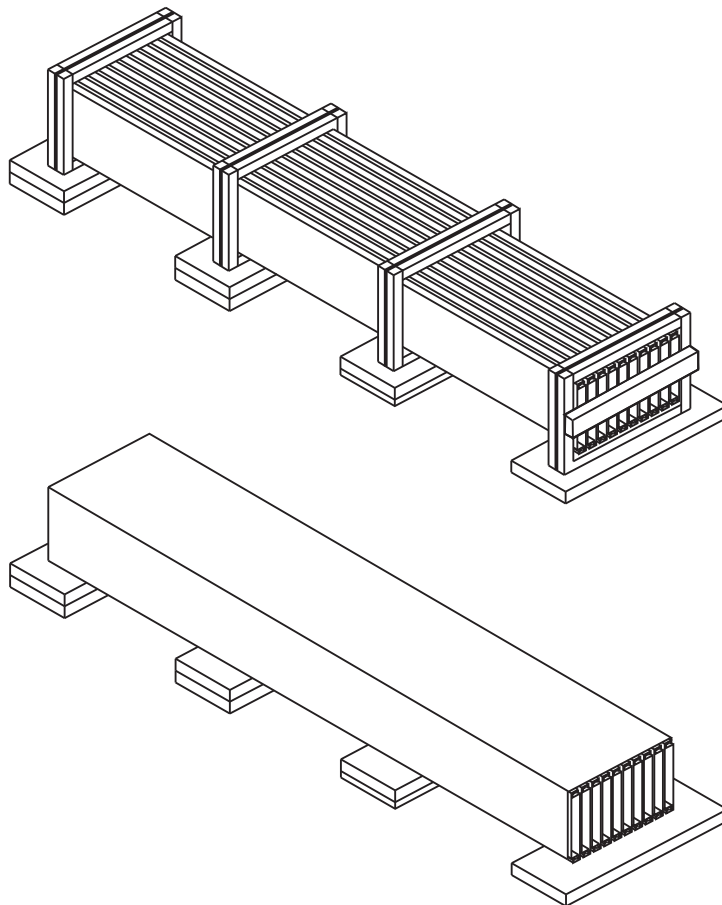
Standing on one side of the panel, lift it by the seam. If the panel is over 10' long, lift it with two or more people on one side of the panel to prevent buckling.

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.



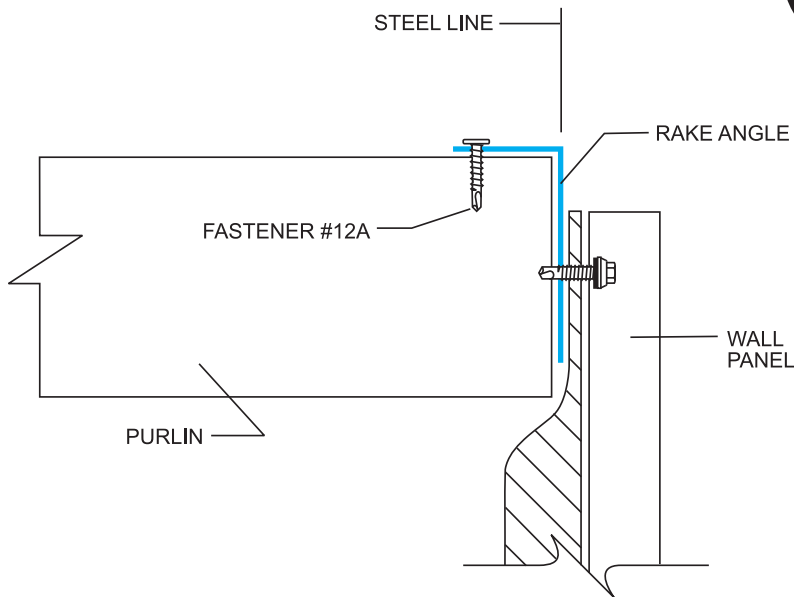
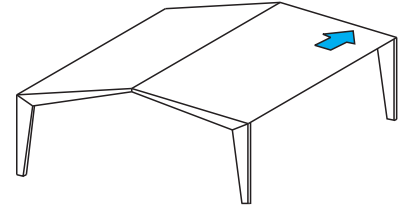
Store bundled sheets off the ground sufficiently high to allow air circulation beneath bundle and to prevent rising water from entering bundle. Slightly elevate one end of bundle. Prevent rain from entering bundle by covering with tarpaulin, making provision for air circulation between draped edges of 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.

INSTALLATION SEQUENCE

SuperLok®

STEP 1



RAKE ANGLE ATTACHMENT

RAKE ATTACHMENT

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

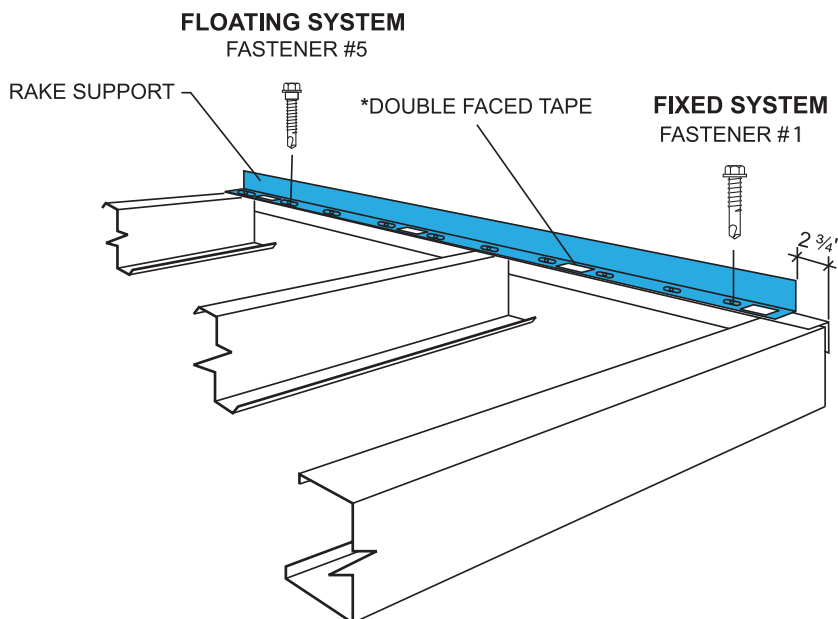
Attach the rake support on top of the rake angle with the proper self-drilling fasteners (See "Rake Support Fastener Requirements" Below) on 2'-0" centers with a fastener in the first and last prepunched slot. The vertical leg is to be installed flush with the steel line.

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



RAKE SUPPORT ATTACHMENT

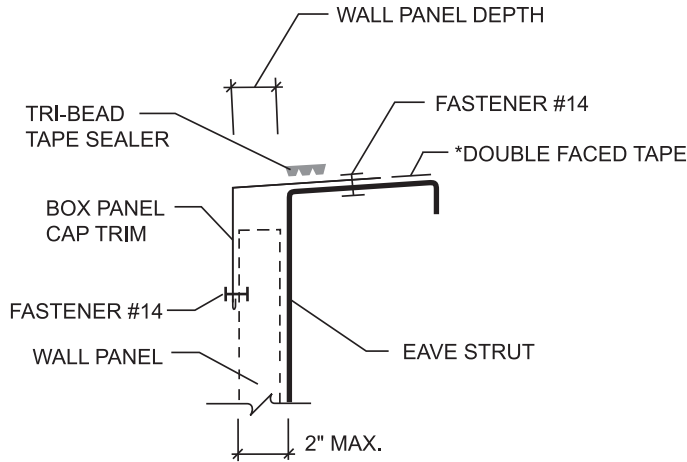
CAUTION

(For Floating Systems Only)

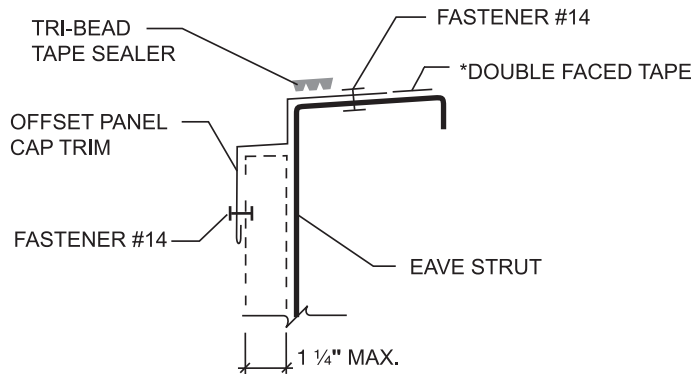
It is important that shoulder fasteners are installed through the **CENTER** of the slotted holes of the rake support to allow for expansion and contraction.

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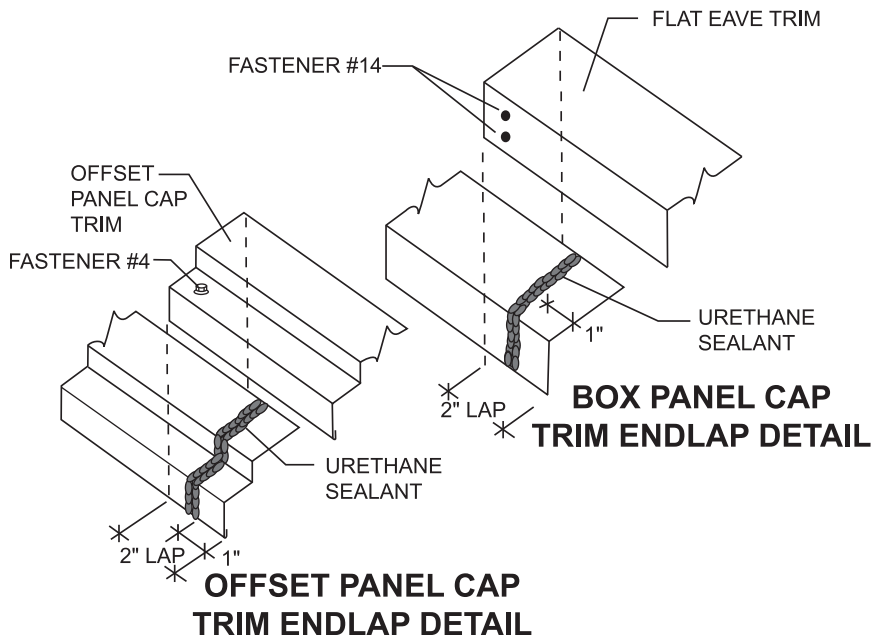
INSTALLATION SEQUENCE



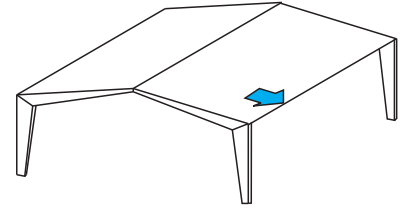
WALL PANEL INSTALLED BEFORE ROOF



WALL PANEL INSTALLED BEFORE OR AFTER ROOF



STEP 2



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.

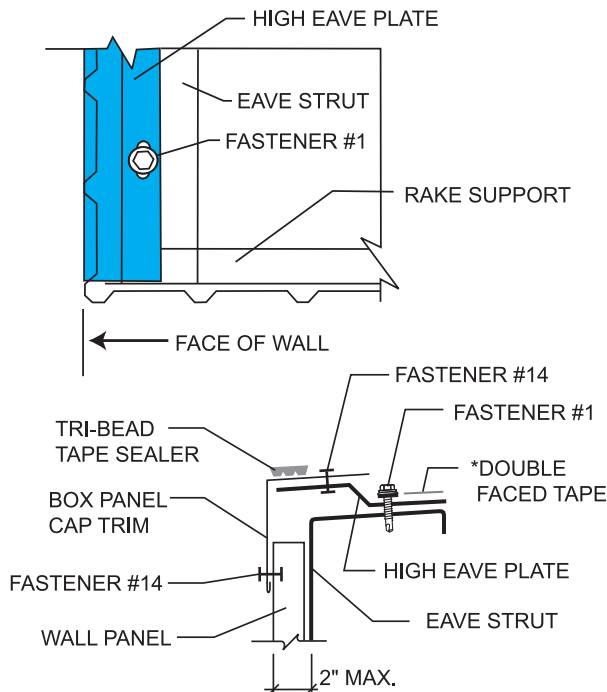
Install Tri-Bead tape sealer along top of the trim.

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.

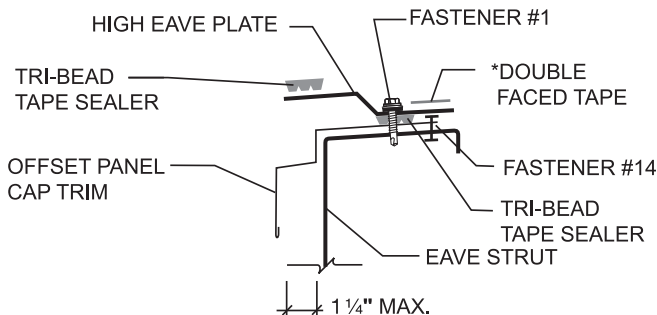
Lap trim 2". Apply two beads of urethane sealant between the trim pieces, approximately 1" from the end of the bottom piece. Attach trim laps in flat eave trim with Fastener #14. Attach trim laps on panel cap trim with Fastener #4.

INSTALLATION SEQUENCE

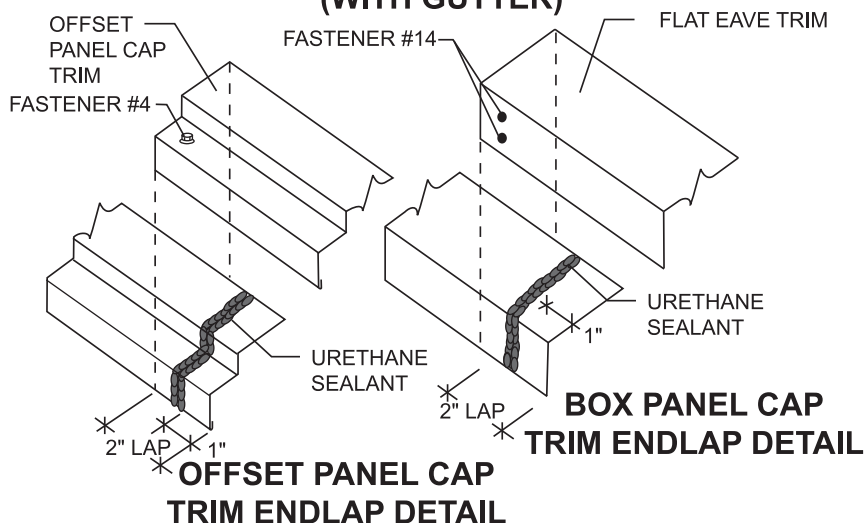
SuperLok®



FLAT EAVE TRIM DETAIL (WITHOUT GUTTER)



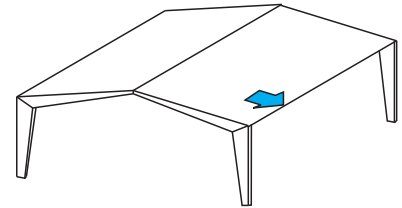
OFFSET PANEL CAP TRIM DETAIL (WITH GUTTER)



OFFSET PANEL CAP TRIM ENDLAP DETAIL

BOX PANEL CAP TRIM ENDLAP DETAIL

**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.

*Not by Manufacturer

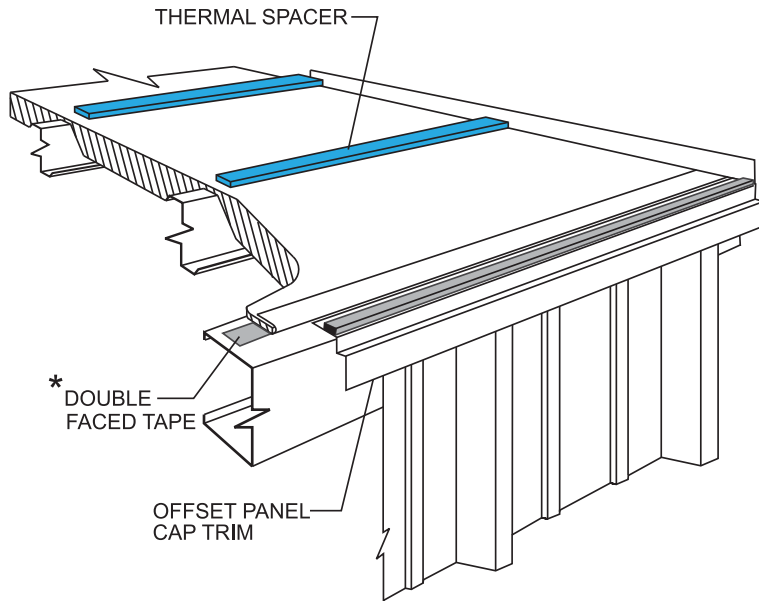
SL-28

SUBJECT TO CHANGE WITHOUT NOTICE

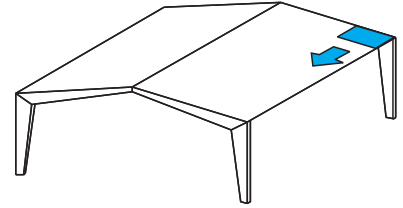
AUGUST 12, 2015

SuperLok®

INSTALLATION SEQUENCE

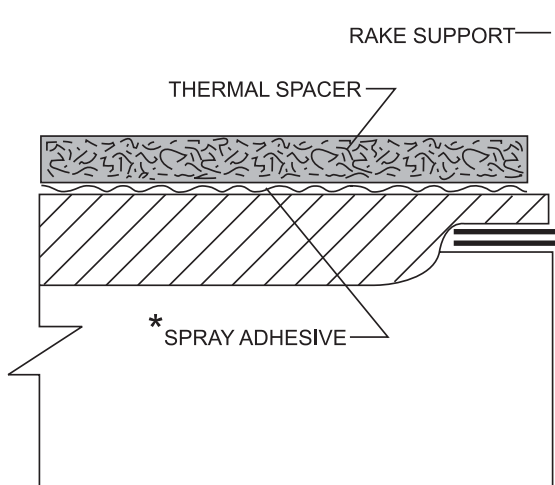
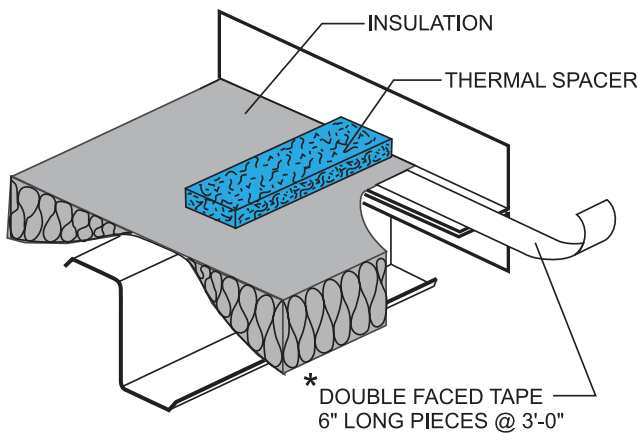


**STEP
3**



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.

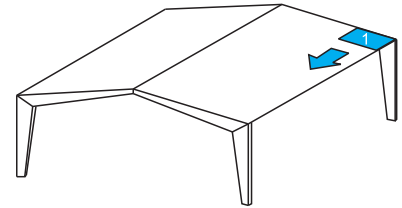


Using spray adhesive, (not by manufacturer), adhere the thermal spacer to the insulation (First Panel Run Only). The thermal spacer increases the insulation capacity along the purlins.

INSTALLATION SEQUENCE

SuperLok®

STEP 4

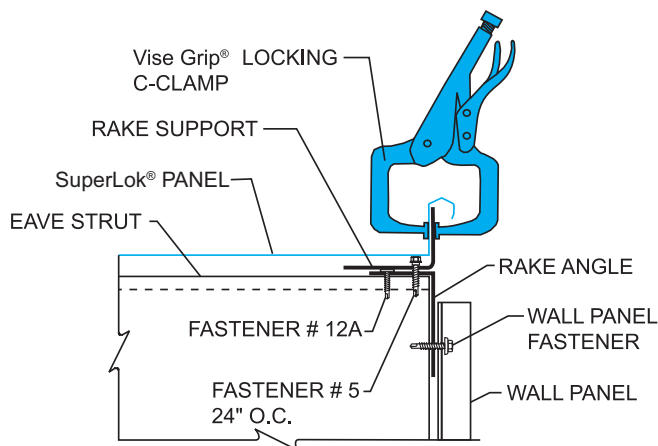
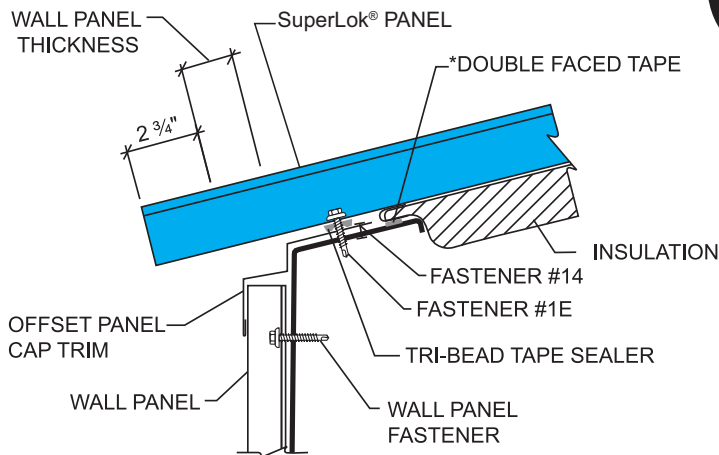


FIRST PANEL

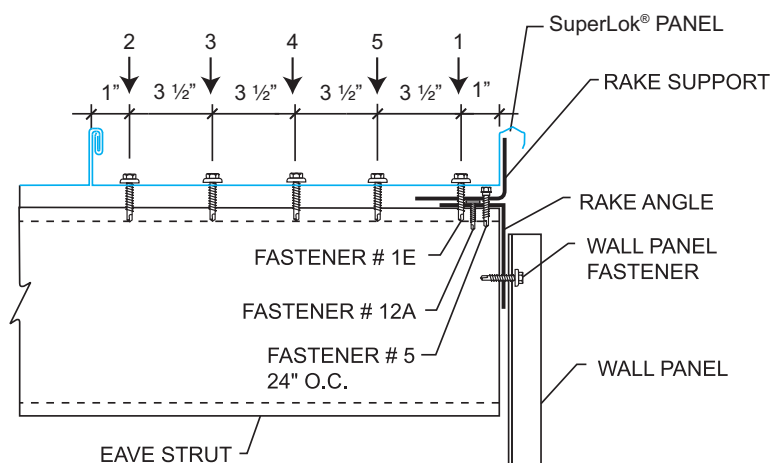
Position the panel so that it overhangs the eave strut by the dimension shown on the building drawings. The upper end of the panel must extend 7" beyond the web of the purlin if the panel covers eave to ridge. If more than one panel is required to cover eave to ridge, one or more endlaps will be required.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

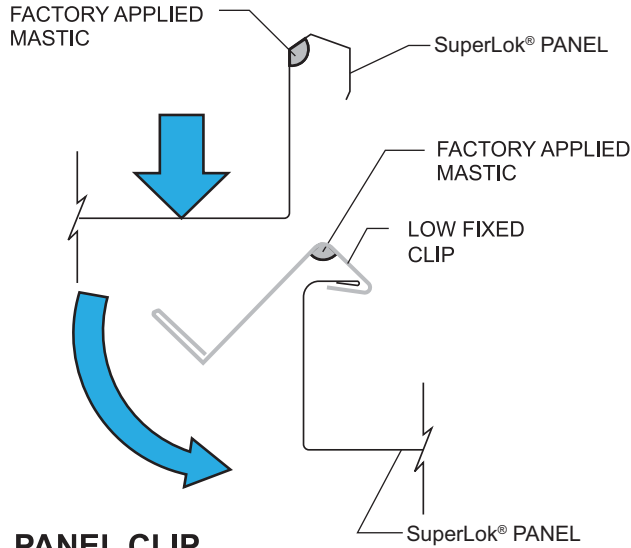


FASTENING PATTERN AT EAVE

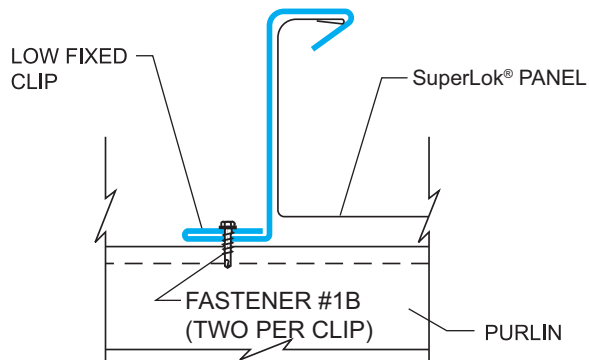
Attach the panel to the eave strut or eave plate with Fastener #1E. Five fasteners are required at this location.

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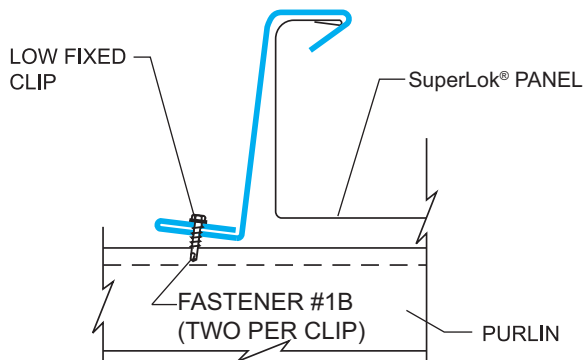
INSTALLATION SEQUENCE



PANEL CLIP INSTALLATION

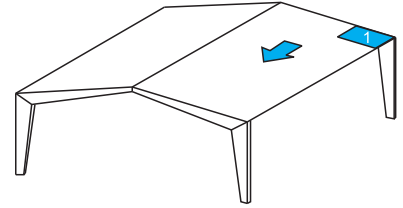


RIGHT WAY



WRONG WAY

STEP 5



CLIP INSTALLATION

Hook the panel clip onto male leg of panel. Hold end of clip up to keep it engaged onto male leg and rotate the clip base down to completely engage clip onto male leg. Install panel clips at each purlin.

Before fastening clip to purlins, check to ensure that vertical leg of clip is tight to the vertical leg of the panel. Failure to keep this leg tight to the panel leg will affect panel module.

CLIP FASTENER REQUIREMENTS

Two fasteners per clip

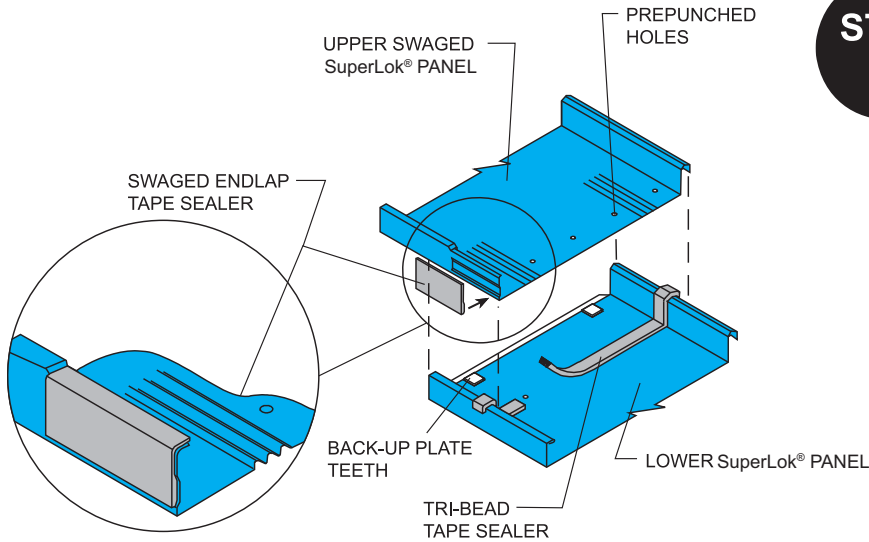
Purlins - Fastener #1B - Up to 4" Insulation
 Fastener #1F - Over 4" Insulation
 Bar Joists - Fastener #6A

CAUTION

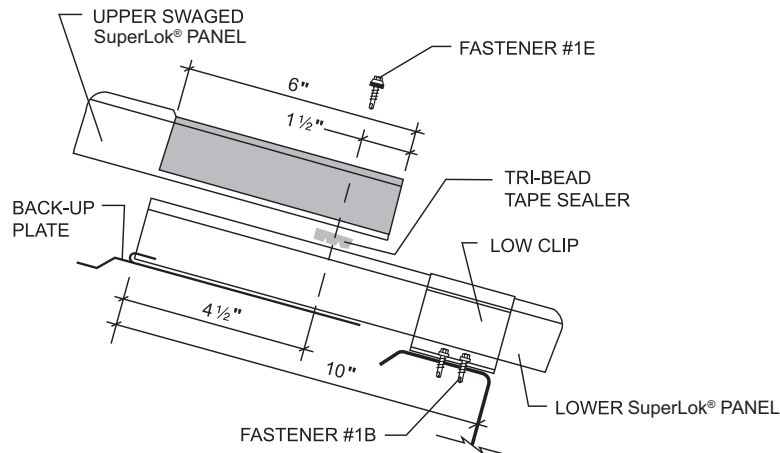
The panel clip has factory applied mastic in the upper lip. This mastic is compressed when the clip is rotated in place. If, for some reason, a clip must be removed, a new clip must be used.

INSTALLATION SEQUENCE

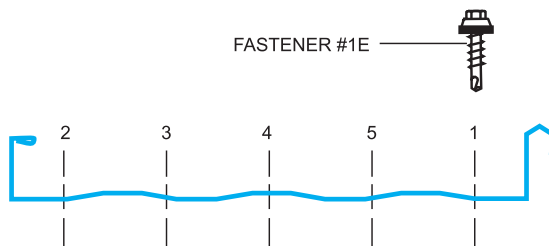
SuperLok®



PANEL INSTALLATION SEQUENCE

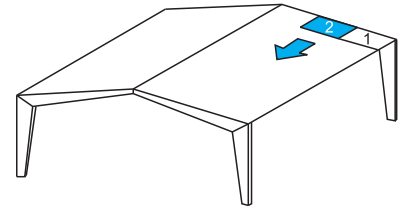


CROSS SECTION OF ENDLAP



FASTENER SEQUENCE

STEP 6



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 upper 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.

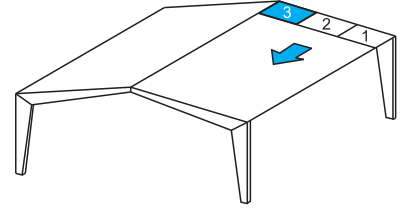
NOTE:

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

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INSTALLATION SEQUENCE

**STEP
7**

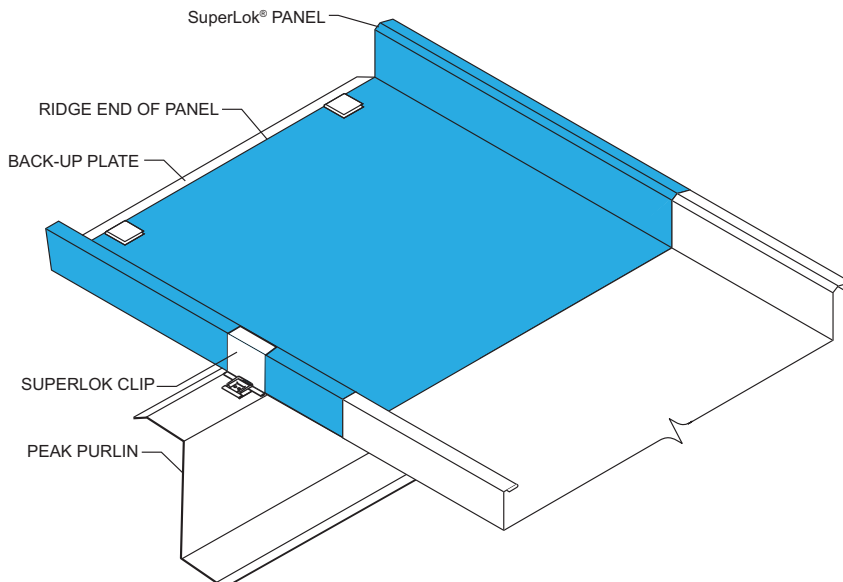
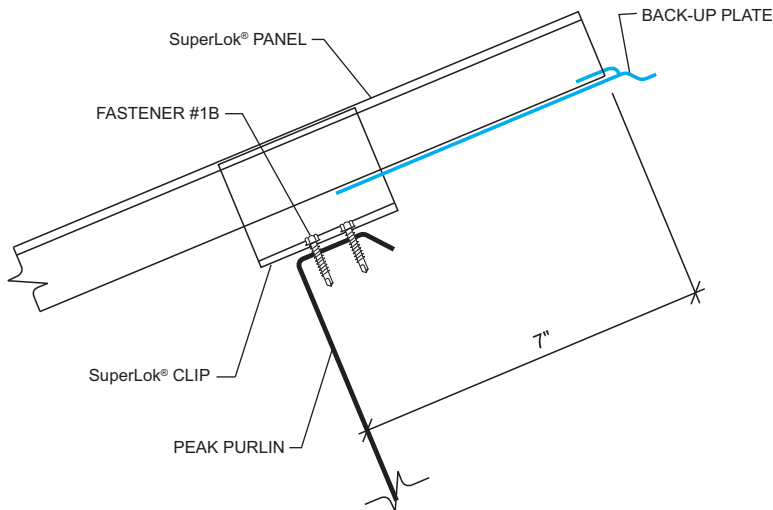


RIDGE

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

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

Install clips as outlined in Step 5.

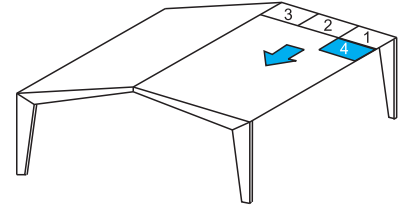


PANEL END SEALANT DETAIL AT RIDGE

INSTALLATION SEQUENCE

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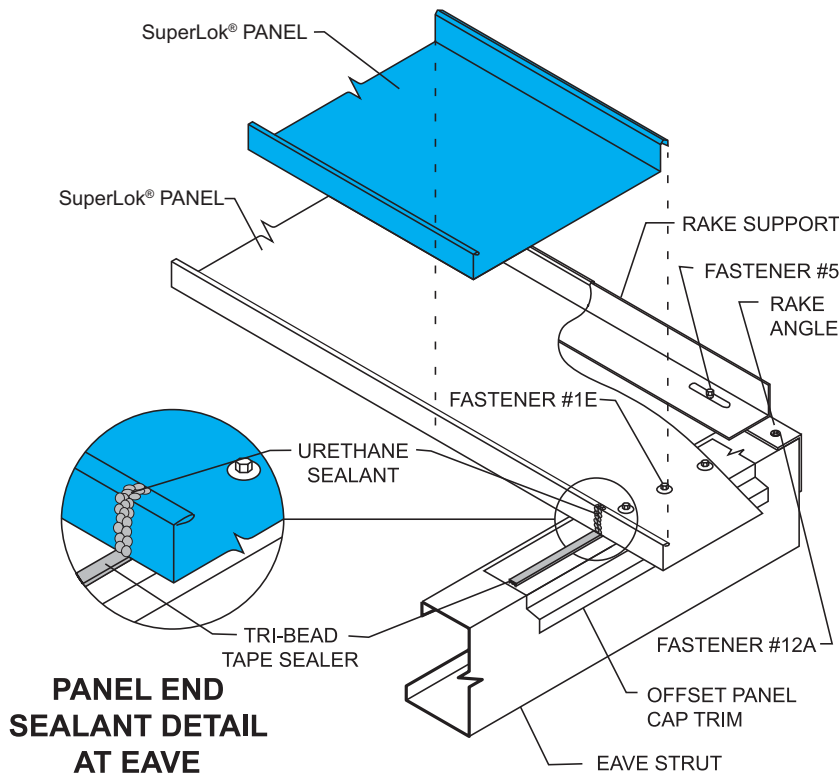
**STEP
8**



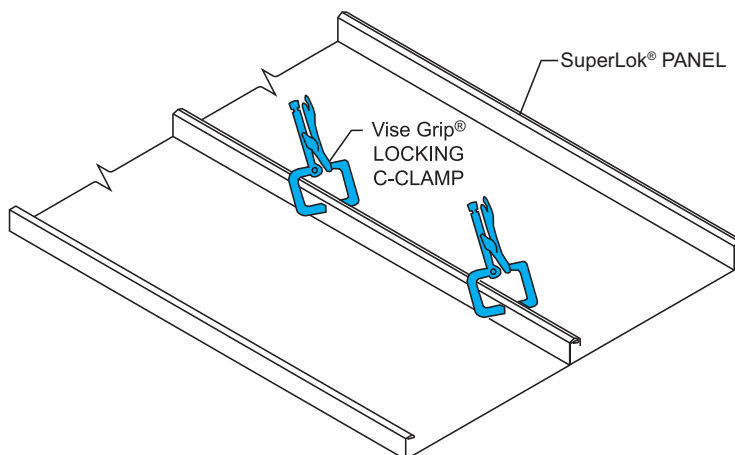
SUBSEQUENT RUNS EAVE

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.



**PANEL END
SEALANT DETAIL
AT EAVE**



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.

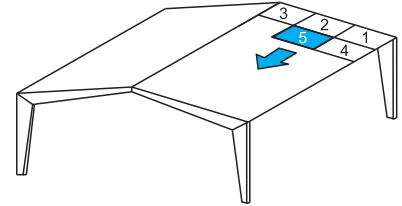
CAUTION

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

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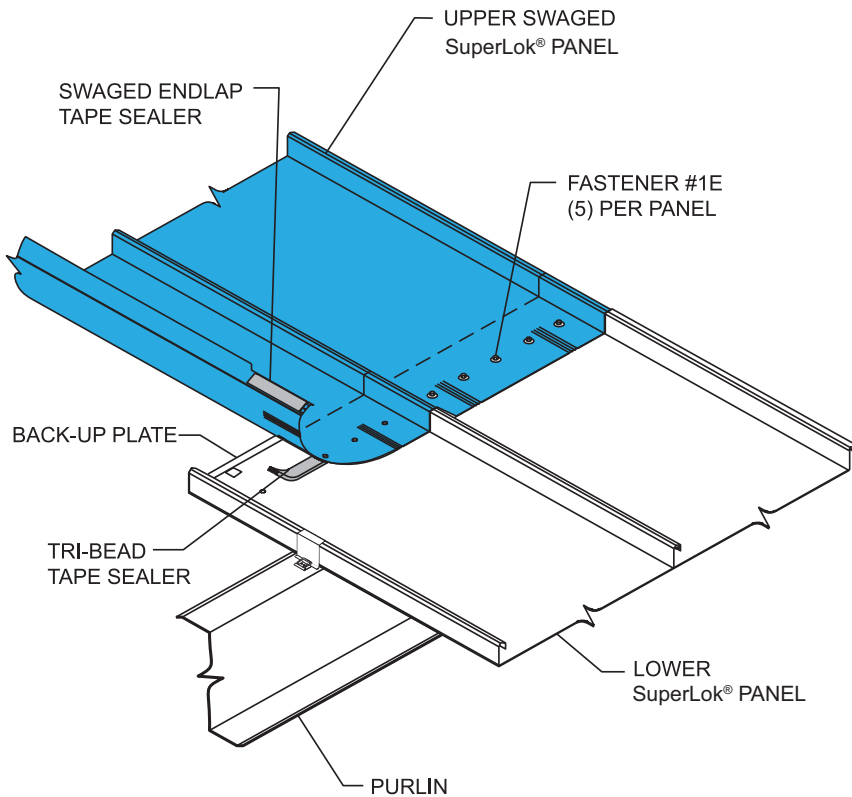
INSTALLATION SEQUENCE

**STEP
9**



SUBSEQUENT RUNS ENDLAP

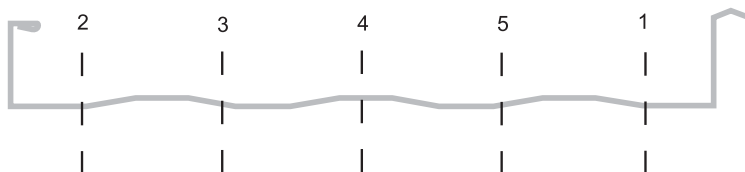
Install endlap panels as outlined in Step 6.



Install clips as described in Step 5.

Repeat endlap procedures as required until ridge is reached.

FASTENER #1E

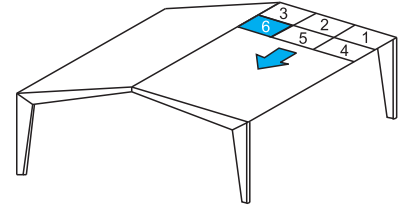


FASTENER SEQUENCE

INSTALLATION SEQUENCE

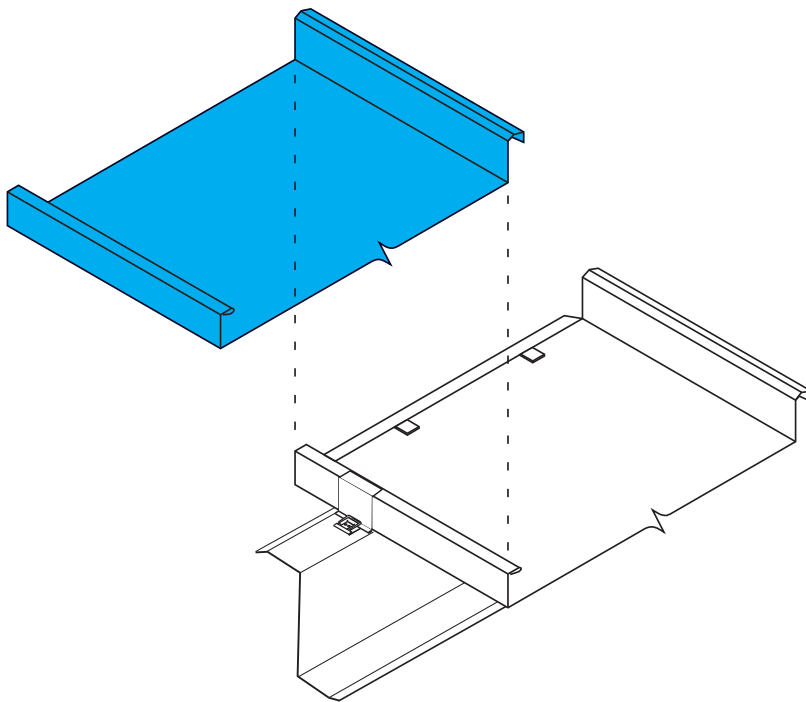
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**STEP
10**



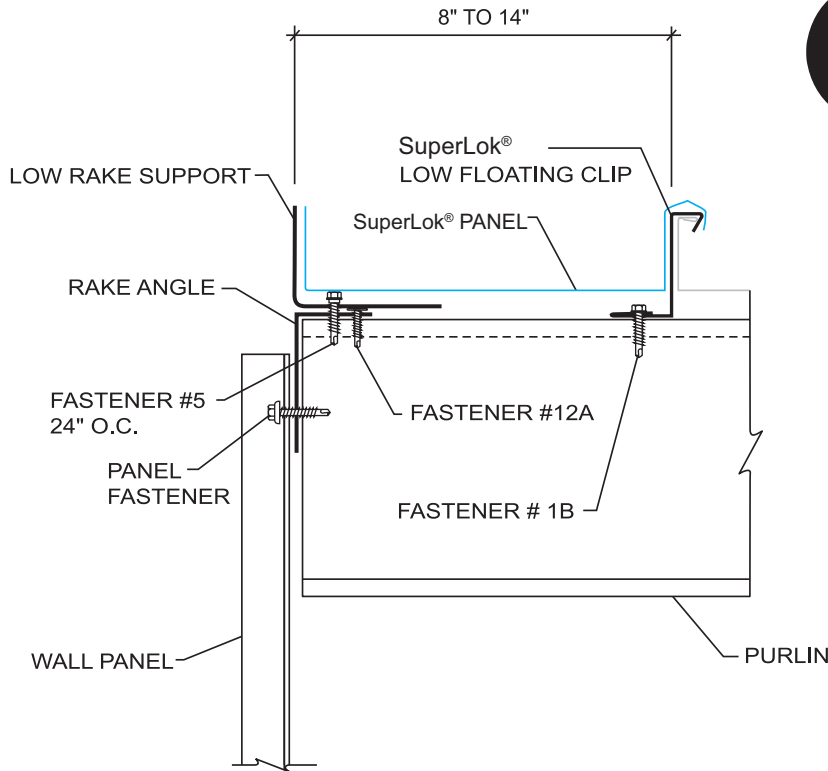
SUBSEQUENT RUNS RIDGE

Install back-up plate and clip as outlined in Step 7.

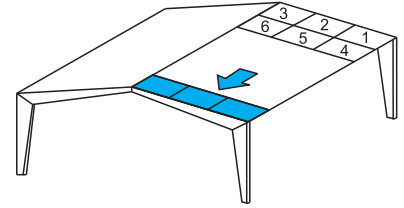


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INSTALLATION SEQUENCE



STEP 11

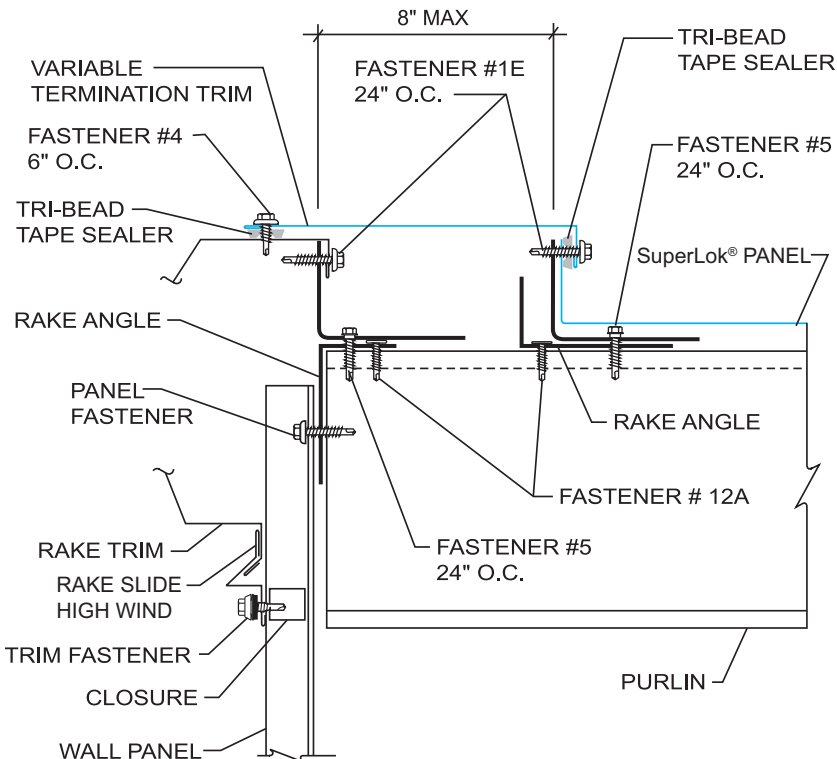


LAST PANEL RUN

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.

INSTALLATION SEQUENCE

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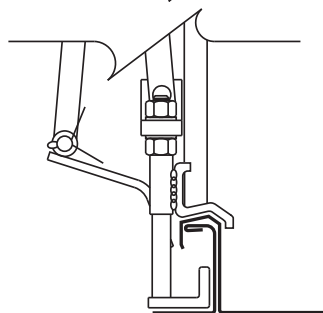
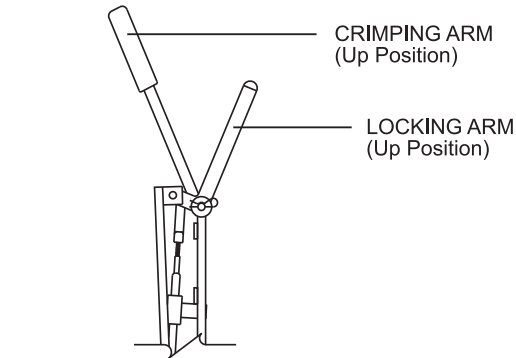
STEP 12

SEAMING OPERATION

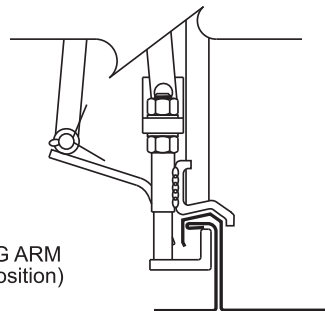
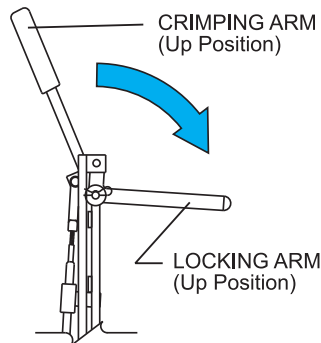
As panels are installed, hand crimp at each clip location with the hand crimper. Panels should be completely seamed with the electric seamer as soon as possible.

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

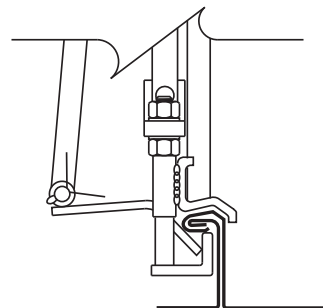
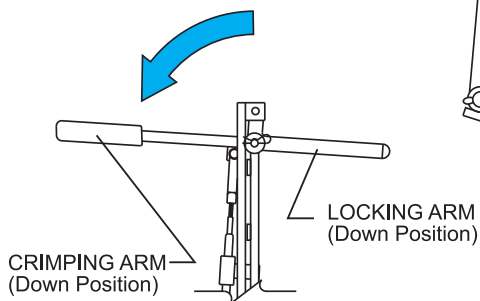
Push crimping arm down to crimp panel. Return both the crimping arm and locking arm to the up position and remove tool from seam.



STEP 1
Hand Tool Positioned
Over Seam



STEP 2
Hand Tool Locked
Onto Seam

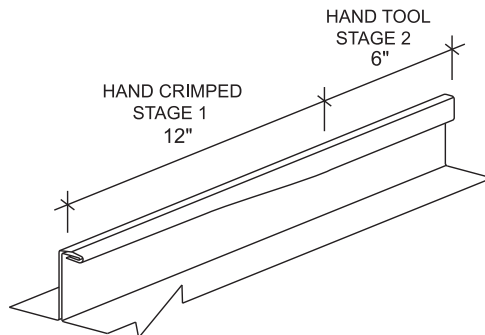
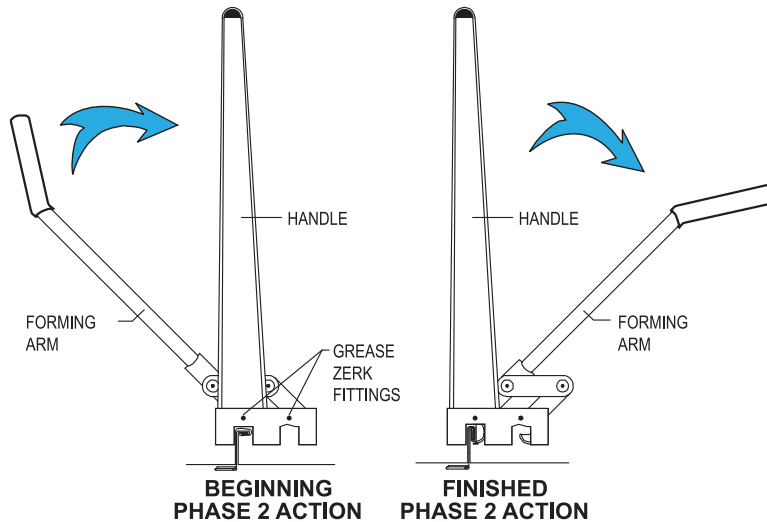
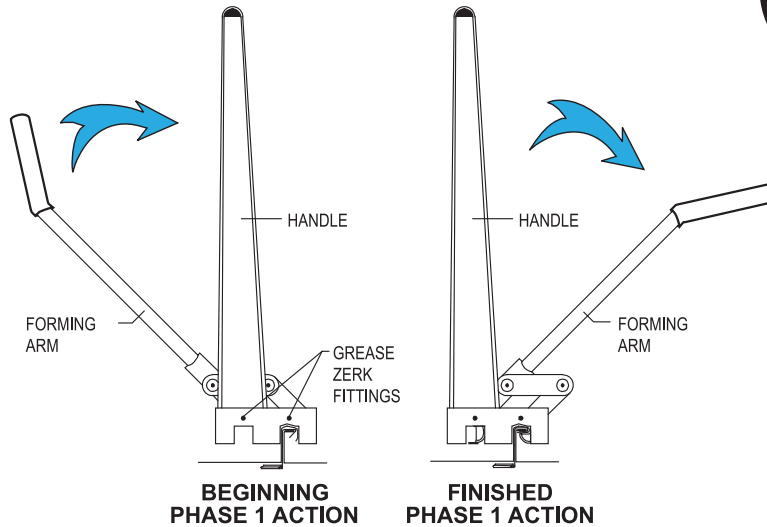


STEP 3
Hand Tool Crimps Seam

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INSTALLATION SEQUENCE

**STEP
12
CONT.**



SEAMING OPERATION (Continued)

CAUTION

It is critical that the panel seams are crimped and folded as shown before using the electric seamer. **Failure to follow these guidelines will result in damaged seams.**

To begin seaming with hand tool, set the hand tool on the seam making sure seam is in the **PHASE 1 Action** slot. Align the edge of the hand tool with the end of the panel. Rotate the forming arm under the handle to produce 6\"' of **PHASE 1** seam. This should be done three times along the seam for a total of 18\".

Return to the end of the panel to begin **PHASE 2 Action**. Set hand tool onto seam making sure seam is in the **PHASE 2 Action** slot. Align the edge of the hand tool with the edge of the panel. Rotate the forming arm under the handle to produce 6\"' of finished **PHASE 2** seam. This should be done once per rib. **The relationship of this 6\"' of finished seam to the 18\"' of crimped seam is critical to the proper alignment of the rolls in the electric seamer.**

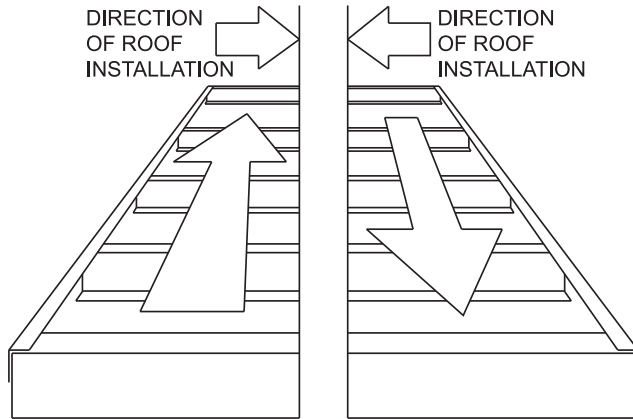
NOTE

All grease zerk fittings on the hand tool should be greased with lithium based grease daily.

The seam is now ready to accept the electric seamer.

INSTALLATION SEQUENCE

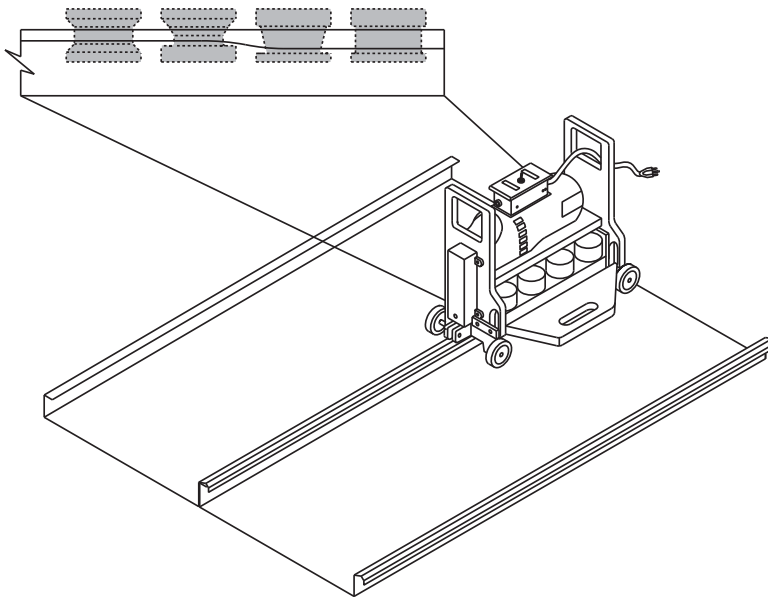
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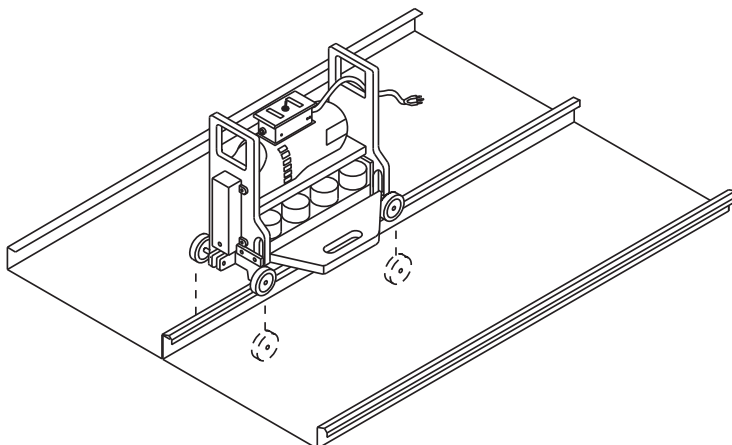
**STEP
12
CONT.**

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.

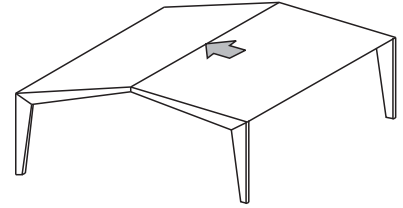
CAUTION

- 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

**STEP
13**



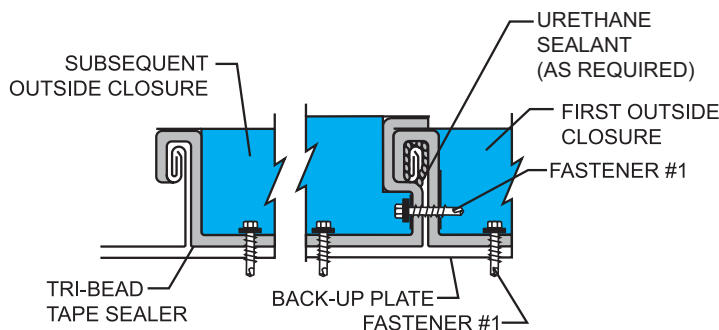
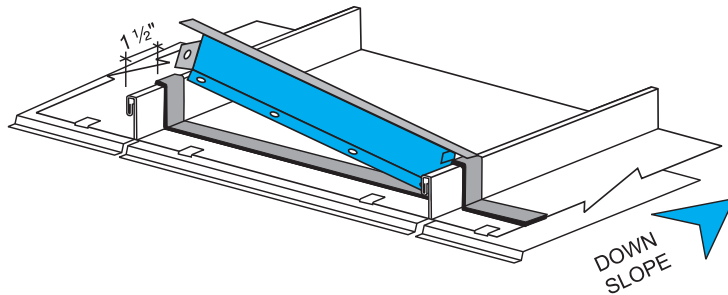
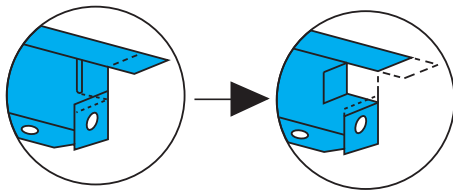
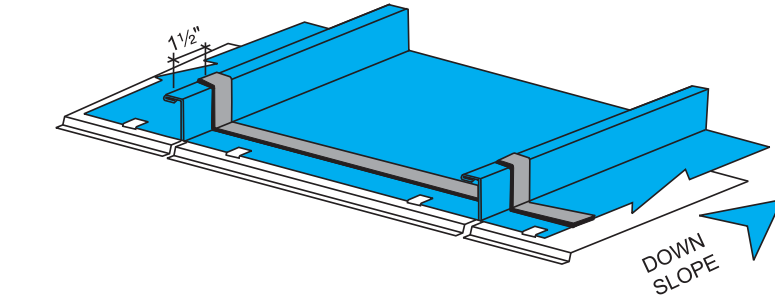
OUTSIDE CLOSURE INSTALLATION

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 1/2" 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.

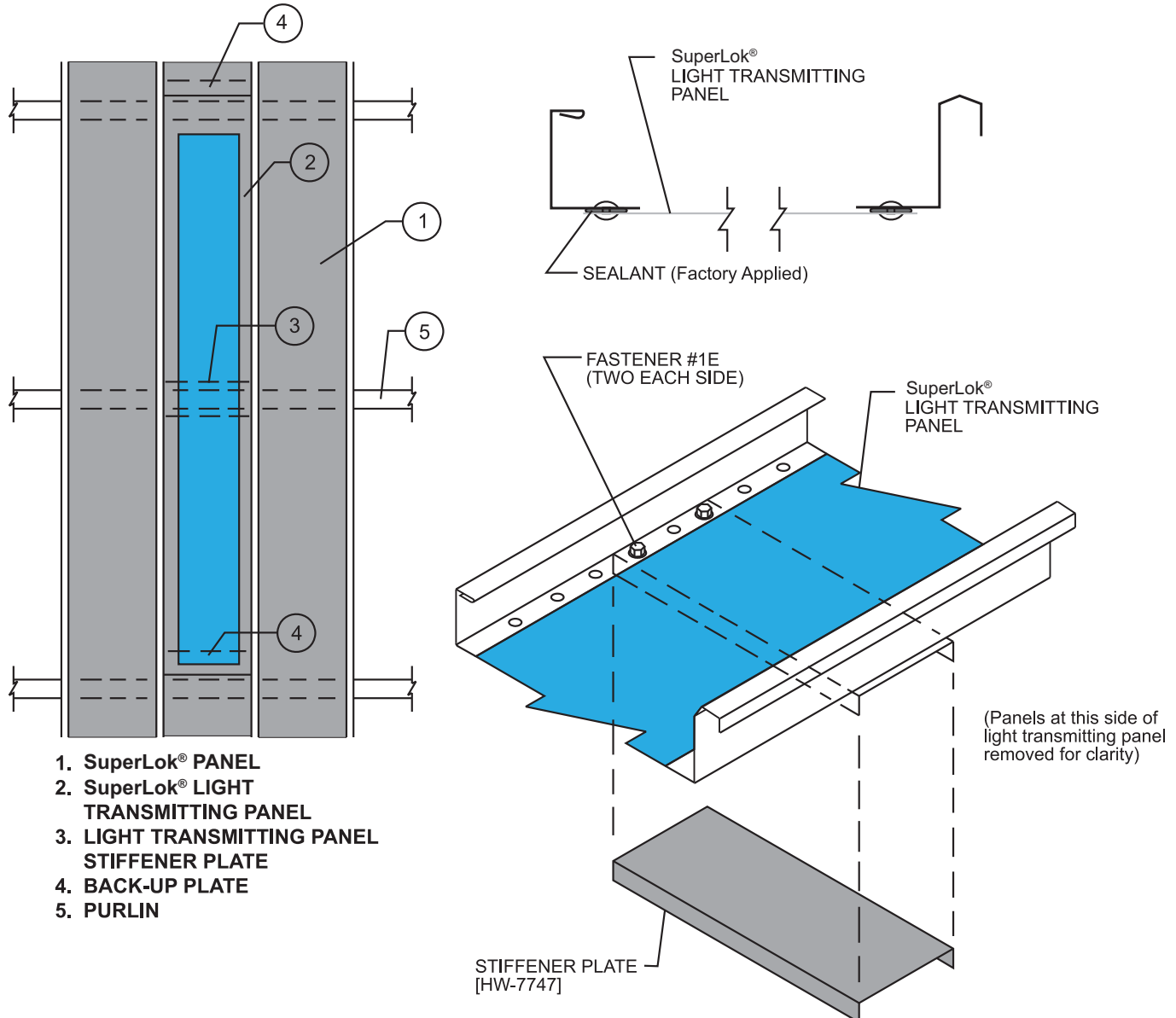
Use urethane sealant to fill any voids around the panel seams on the upslope side of the outside closures.



SPECIAL ERECTION TECHNIQUES

SuperLok®

UL 90 LIGHT TRANSMITTING PANEL INSTALLATION



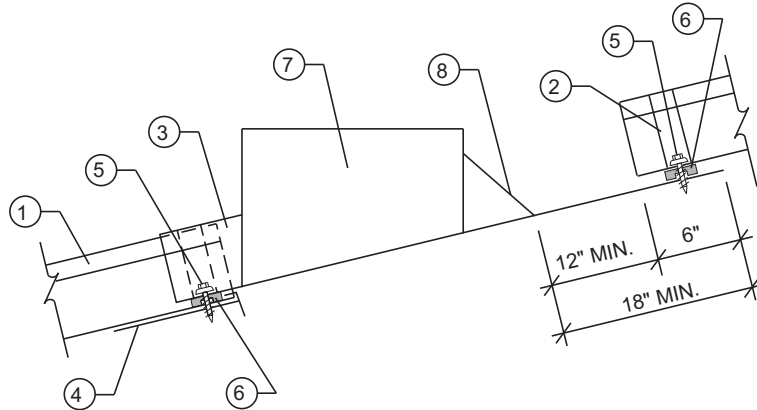
NOTES:

- Maximum width of purlin flange to be 3 ½".
- Stiffener plate is to be field installed on bottom side of light transmitting panel over mid-purlin.
- Light transmitting panel rivets that obstruct stiffener plate must be drilled out and replaced with Fastener #1E. Minimum two fasteners per side.
- Stiffener plate must be centered exactly over mid-purlin so that thermal movement of the system is not restrained by the purlin.
- 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.
- 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.**

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SPECIAL ERECTION TECHNIQUES

ROOF CURB INSTALLATION INSTRUCTIONS (continued)



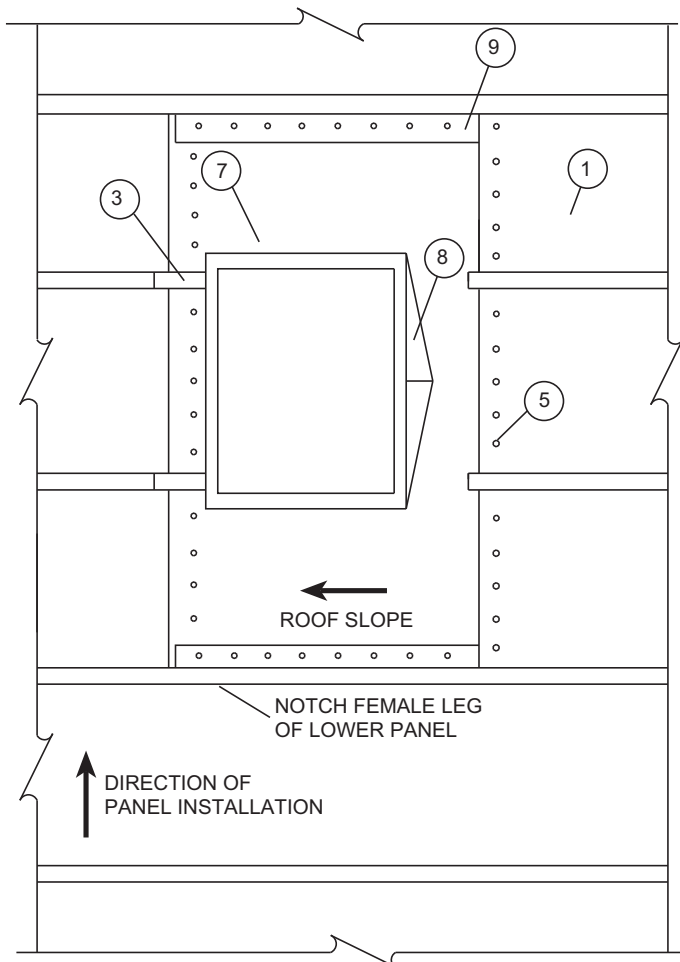
1. SuperLok® Panel
2. Urethane Sealant
3. Outside Cap Cell
4. Back-up Plate
5. Fastener #1E
6. Tri-bead Tape Sealer
7. Roof Curb Made From Structural Aluminum (Min. .080 Thickness)
8. Water Diverter
9. Panel Fins (to be cut from an extra panel the length equal to length of the curb).

When ordering curbs, specify one-piece curbs as shown on this page.

MBCI recommends that only one-piece .080 Aluminum (Min.) roof curbs be used with the SuperLok® roof system. The roof curb will be installed under the roof panels on the upslope end and over the panels at the downslope end. To accomplish this, the roof panels must be endlapped at the upslope and downslope end of the curb. This allows both ends of the curb to shed water and places the heavier gauge metal of the curb under the roof panels for better resistance to foot traffic. The exception is at the downslope end where the curb is on top of the roof panels. Since there are endlaps at this area, back-up plates provide support.

Outside cap cells (for bottom) are used to seal the panel to the roof curb. If the curb must be located in a precise location, order the cap cells loose for field installation.

For the purpose of these instructions, a curb with a factory attached cap cell is illustrated. Panels are assumed to be blank and installed right to left.



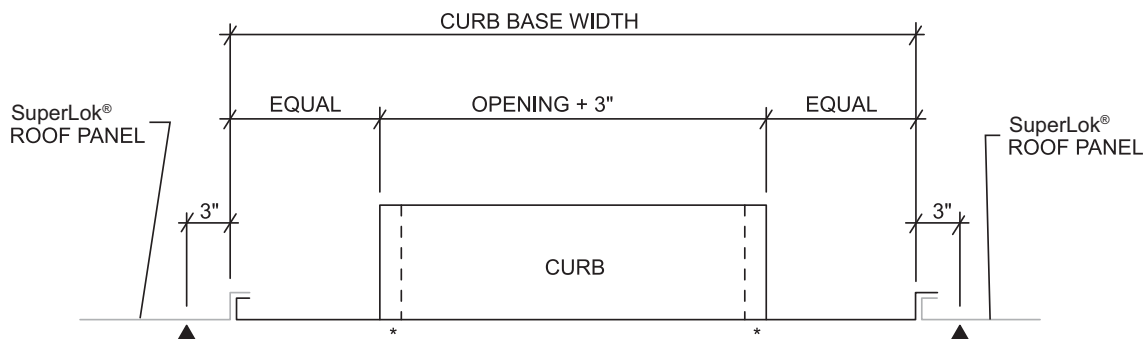
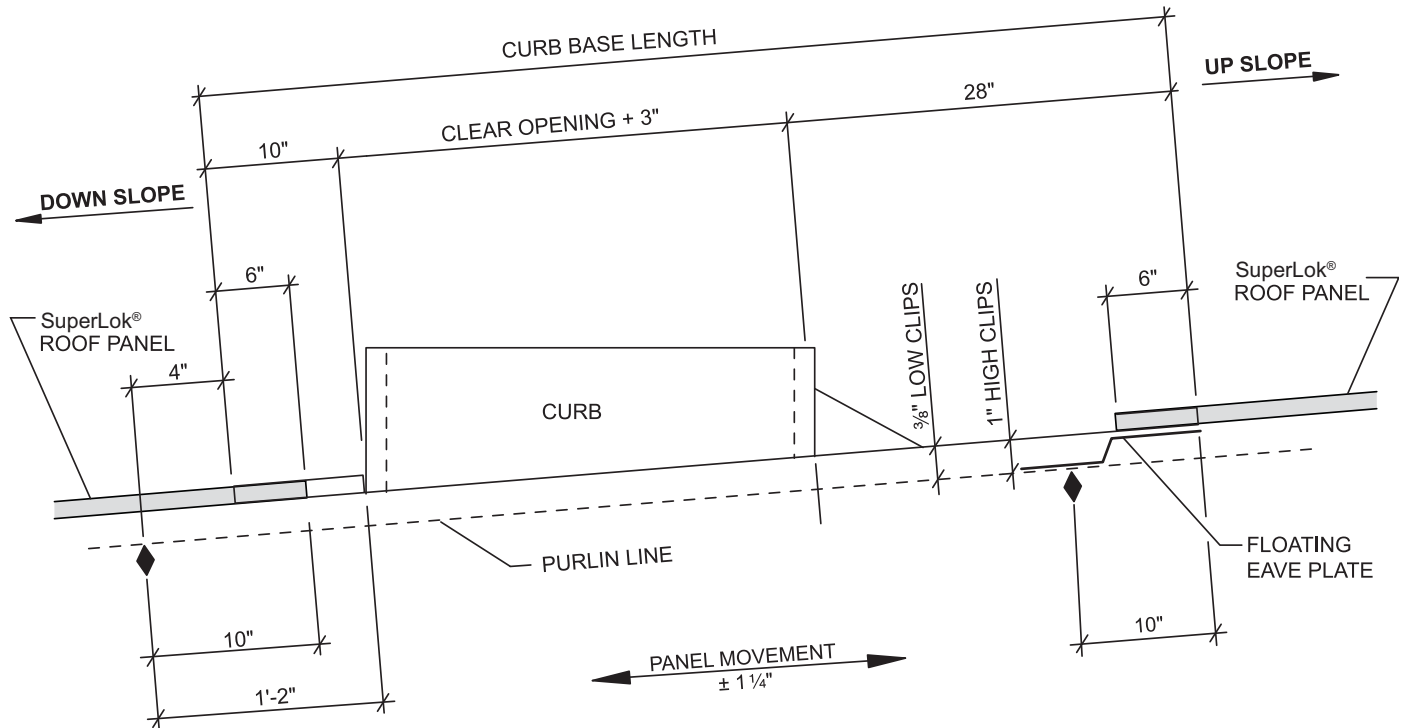
CAUTION

It is the user's responsibility to ensure that openings cut into the roof for installation of roof curbs comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding roof openings with plywood, fixed standard railings, or other acceptable safety controls that prevent fall-through.

SuperLok®

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.

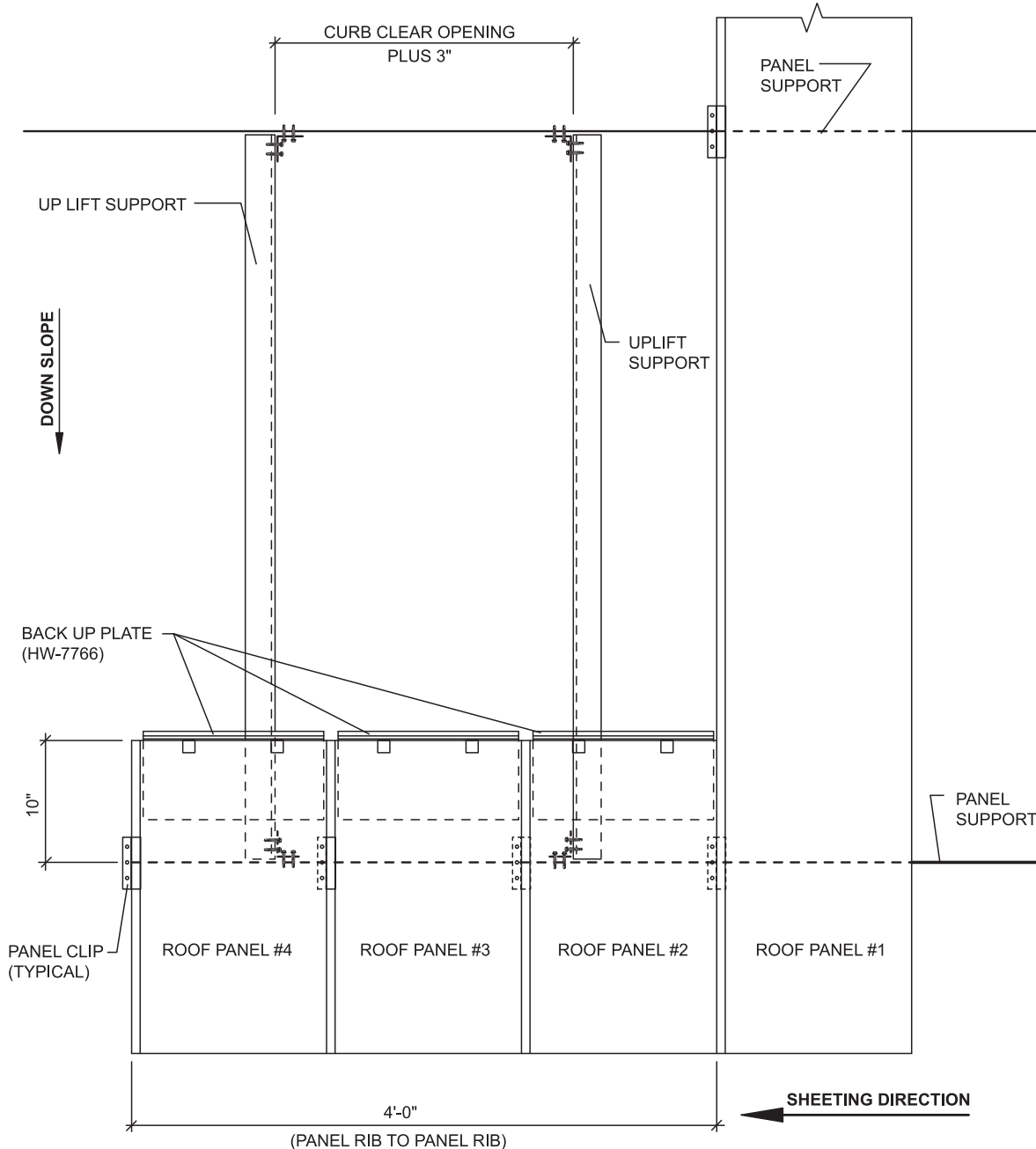
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SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION CURB BASE INSTALLATION #1



NOTES:

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

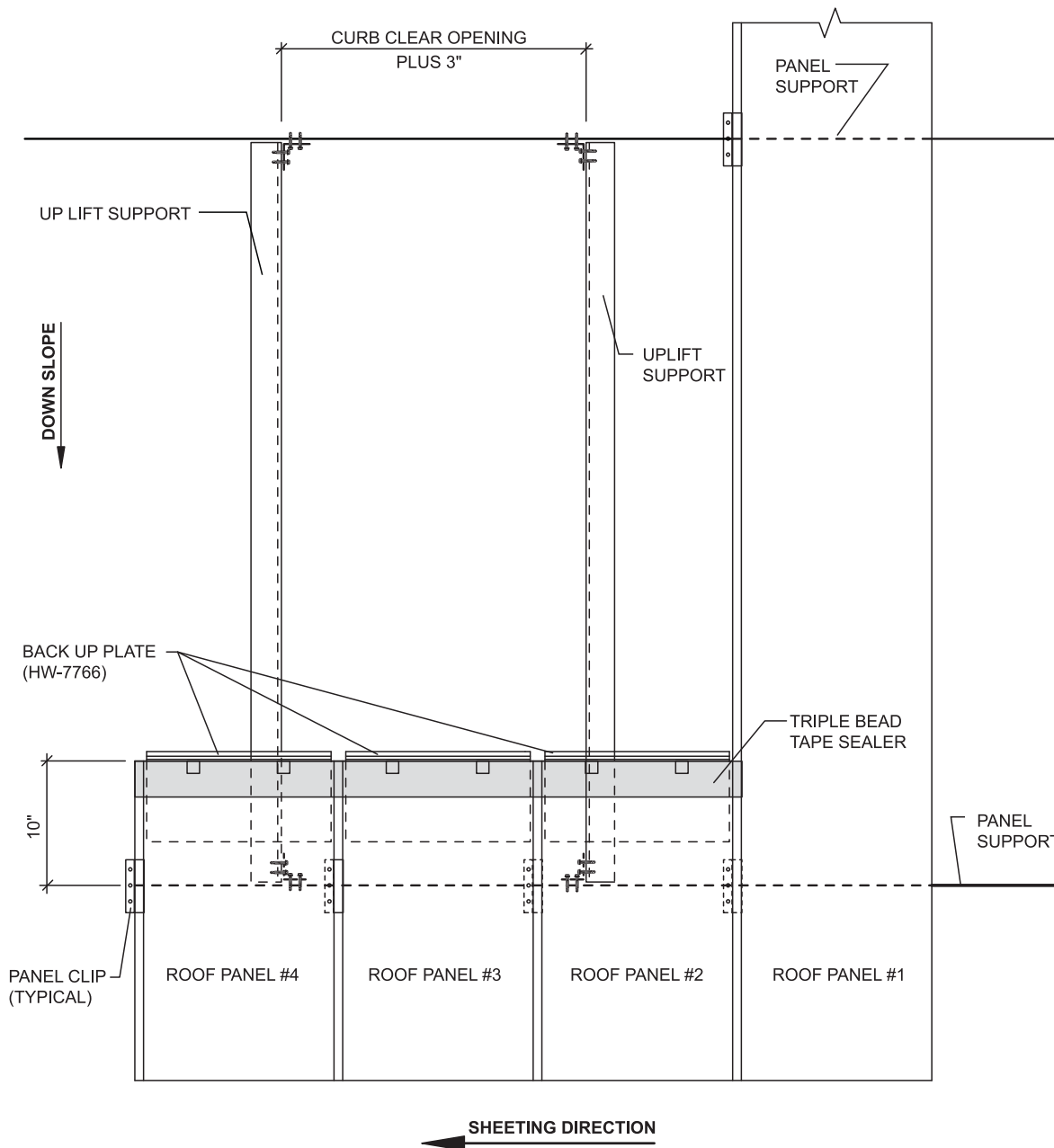
CAUTION

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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION CURB BASE INSTALLATION #2



NOTES:

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

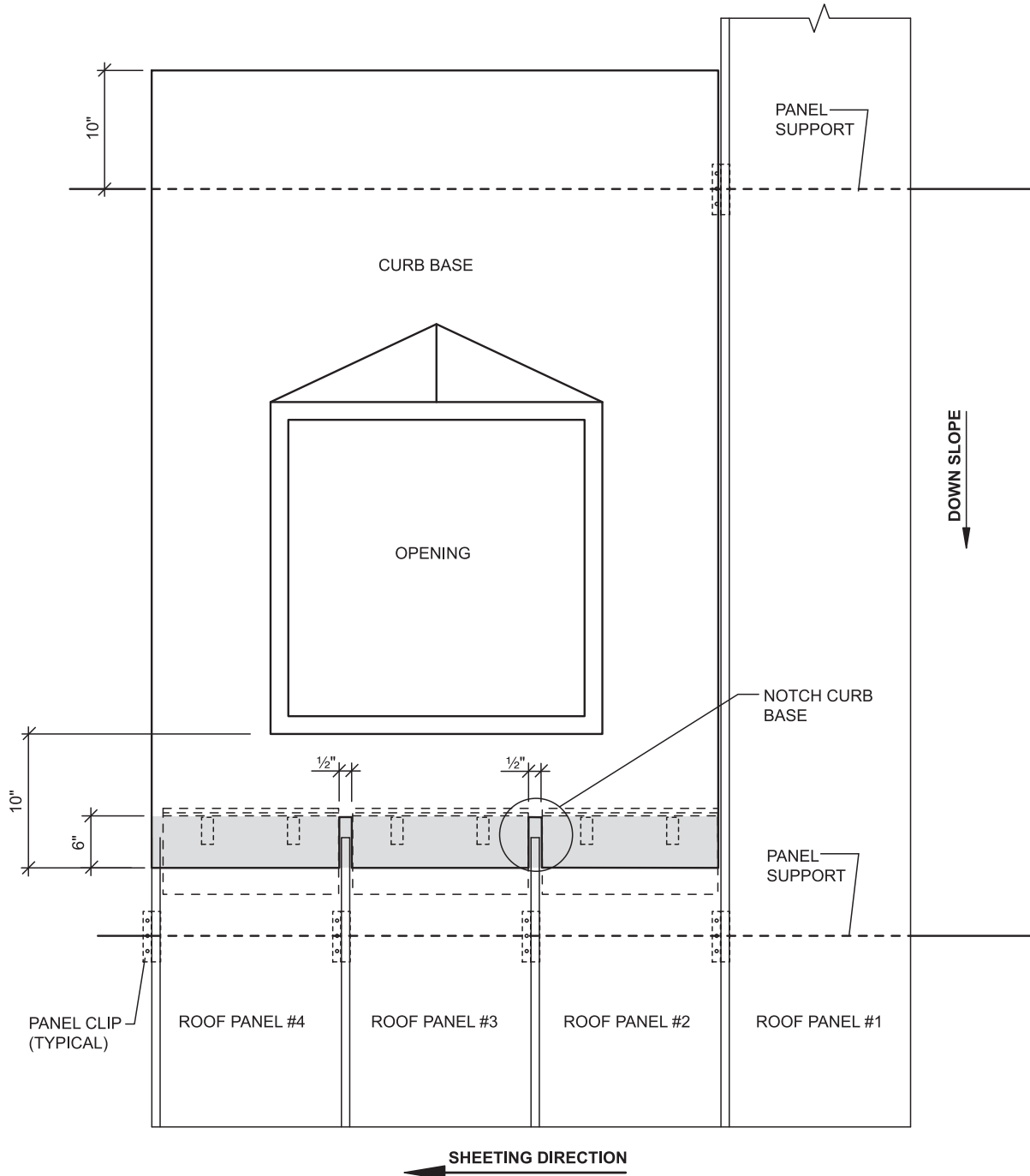
CAUTION

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SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION CURB BASE INSTALLATION #3



NOTES:

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

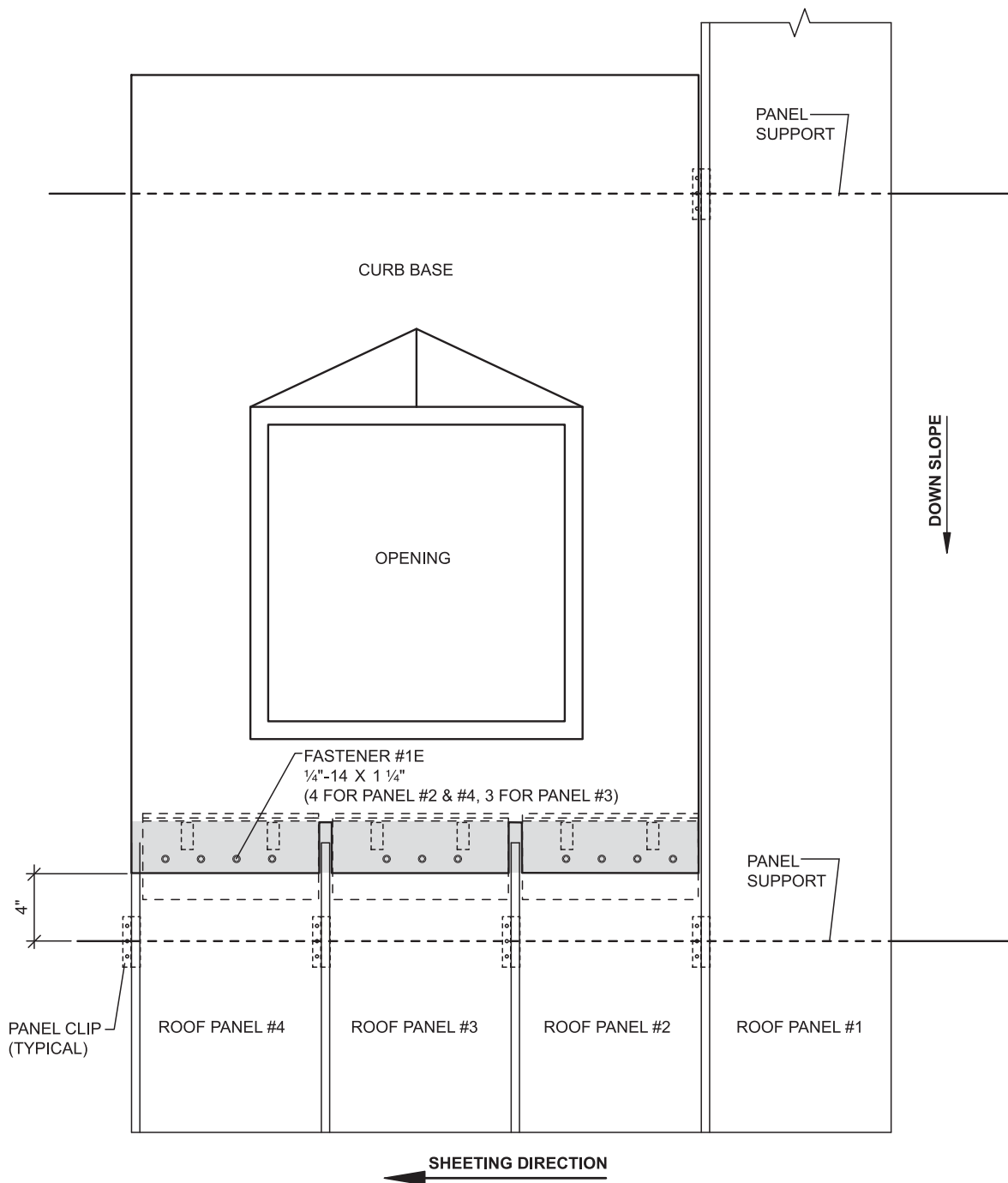
CAUTION

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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION CURB BASE INSTALLATION #4



NOTES:

1. Attach the Curb Base to the roof panels.

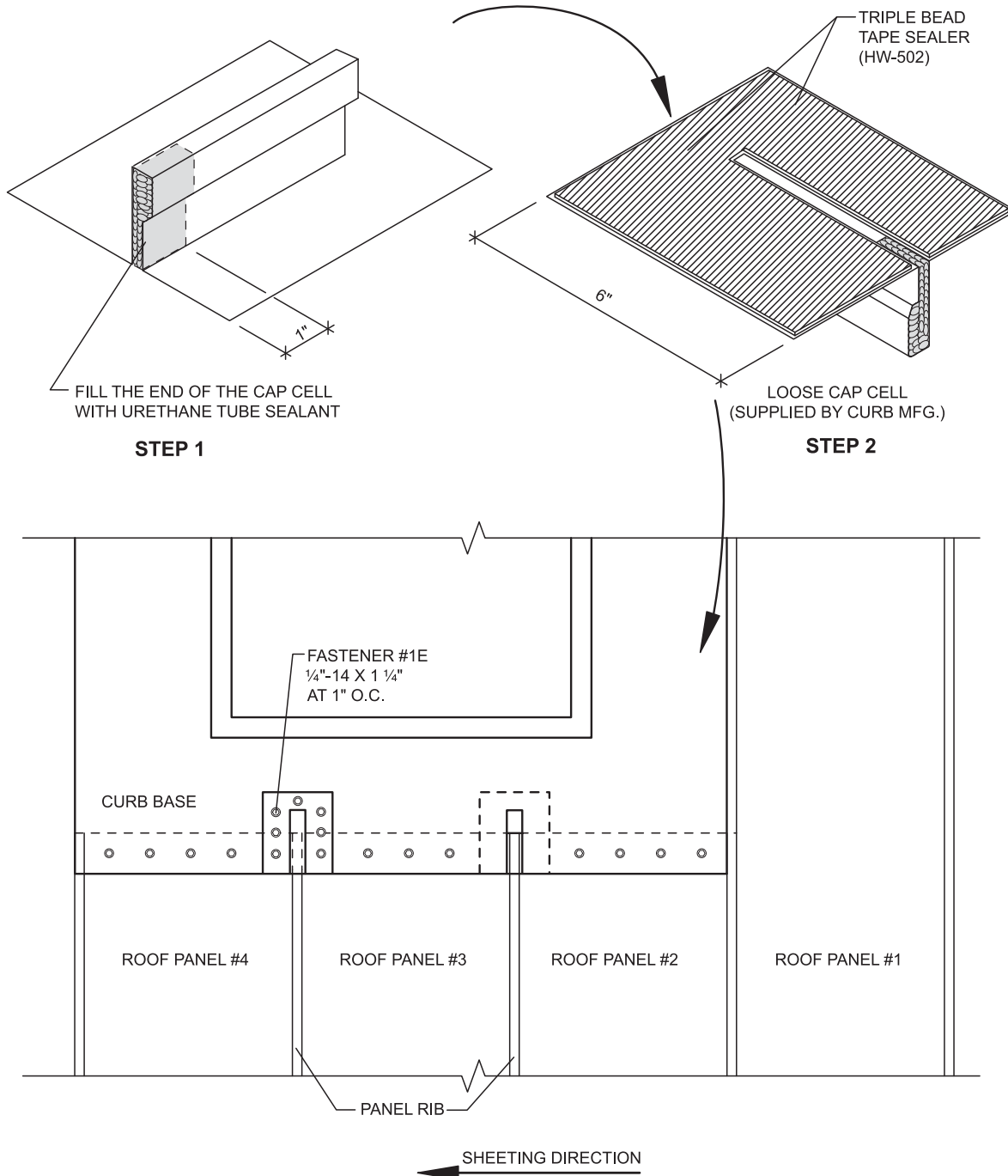
CAUTION

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SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION CAP CELL INSTALLATION



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.

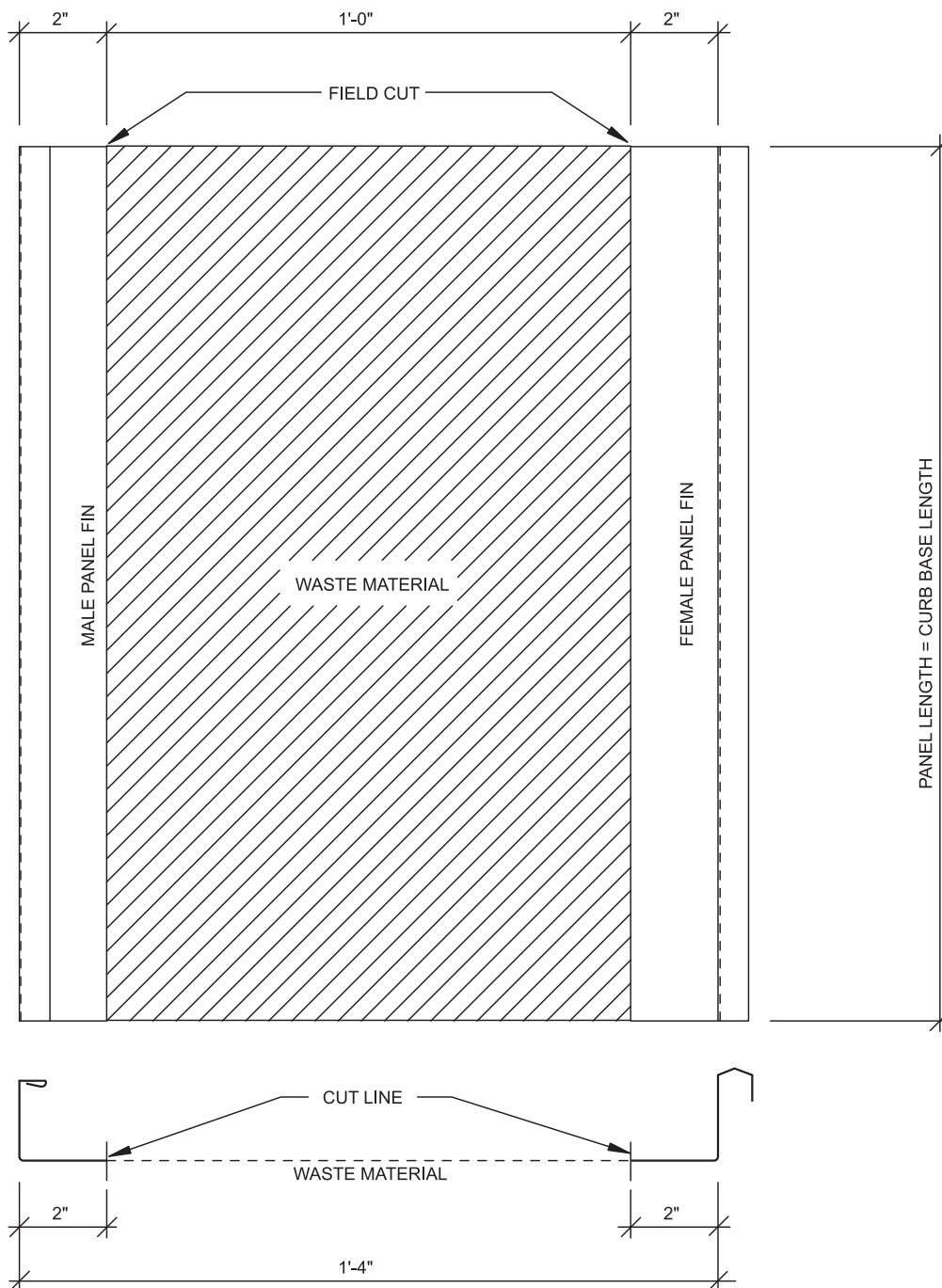
CAUTION

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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION CURB PANEL FIN PREPARATION



NOTES:

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

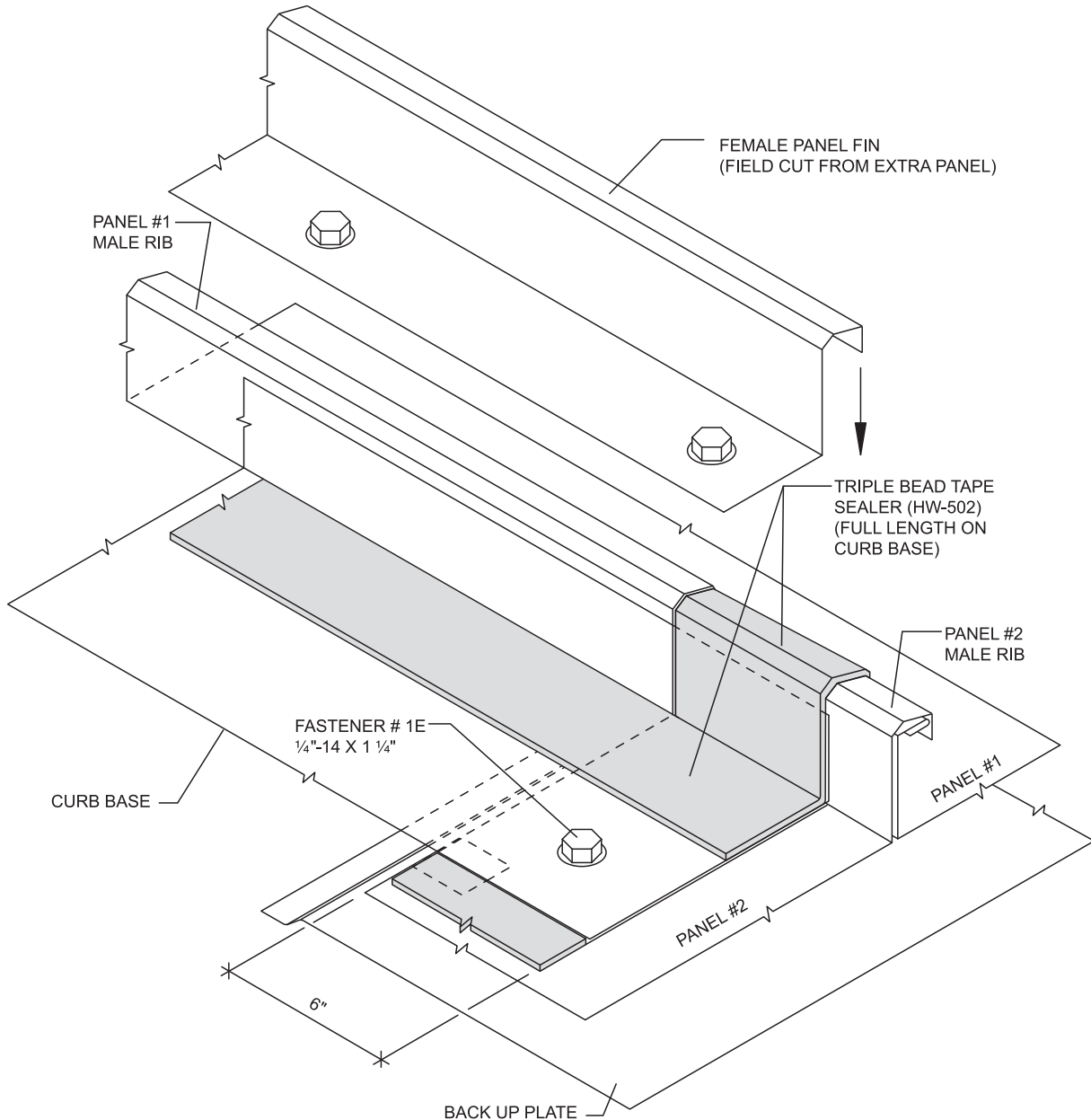
CAUTION

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SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION FEMALE PANEL FIN INSTALLATION



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.

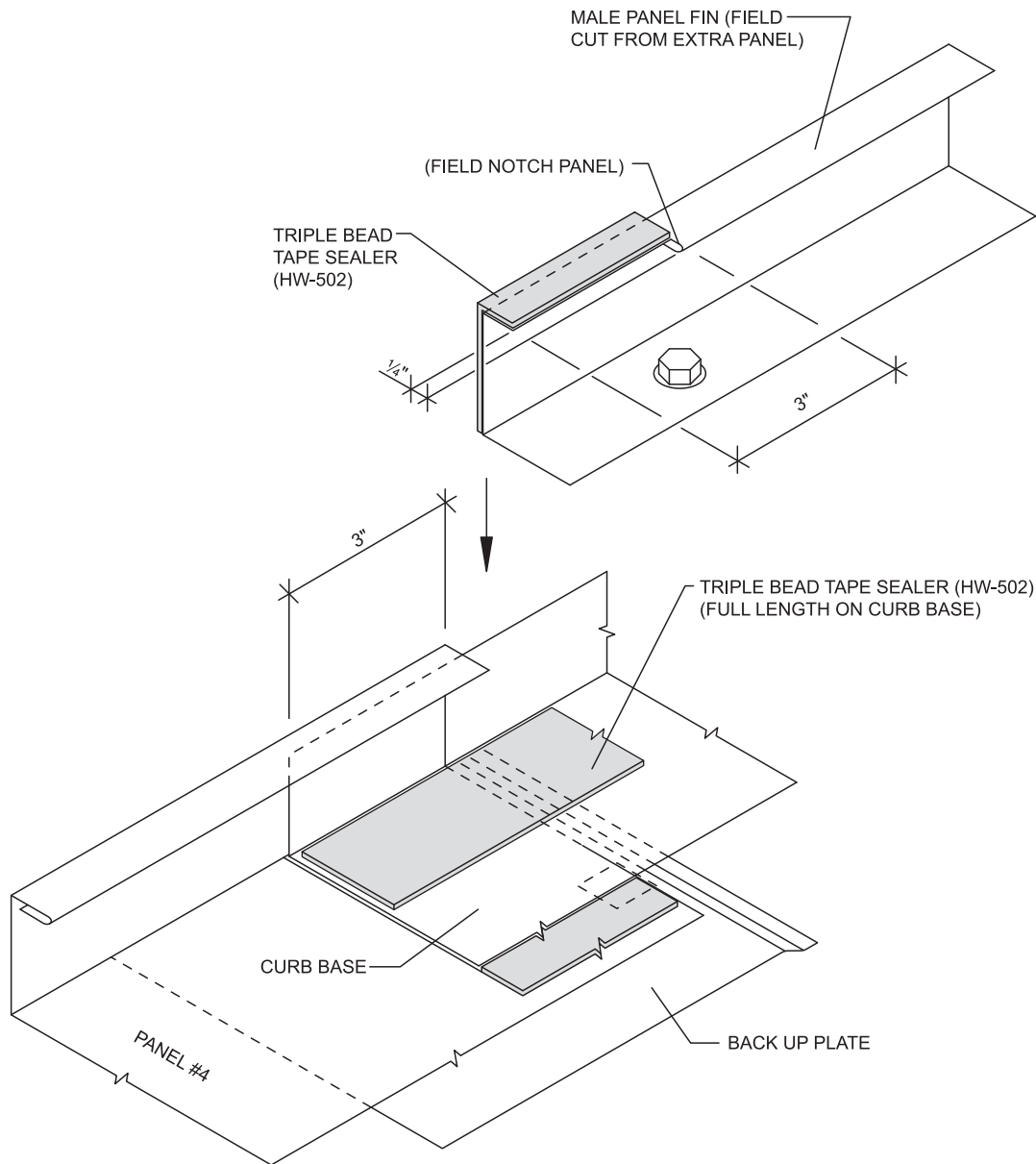
CAUTION

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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.

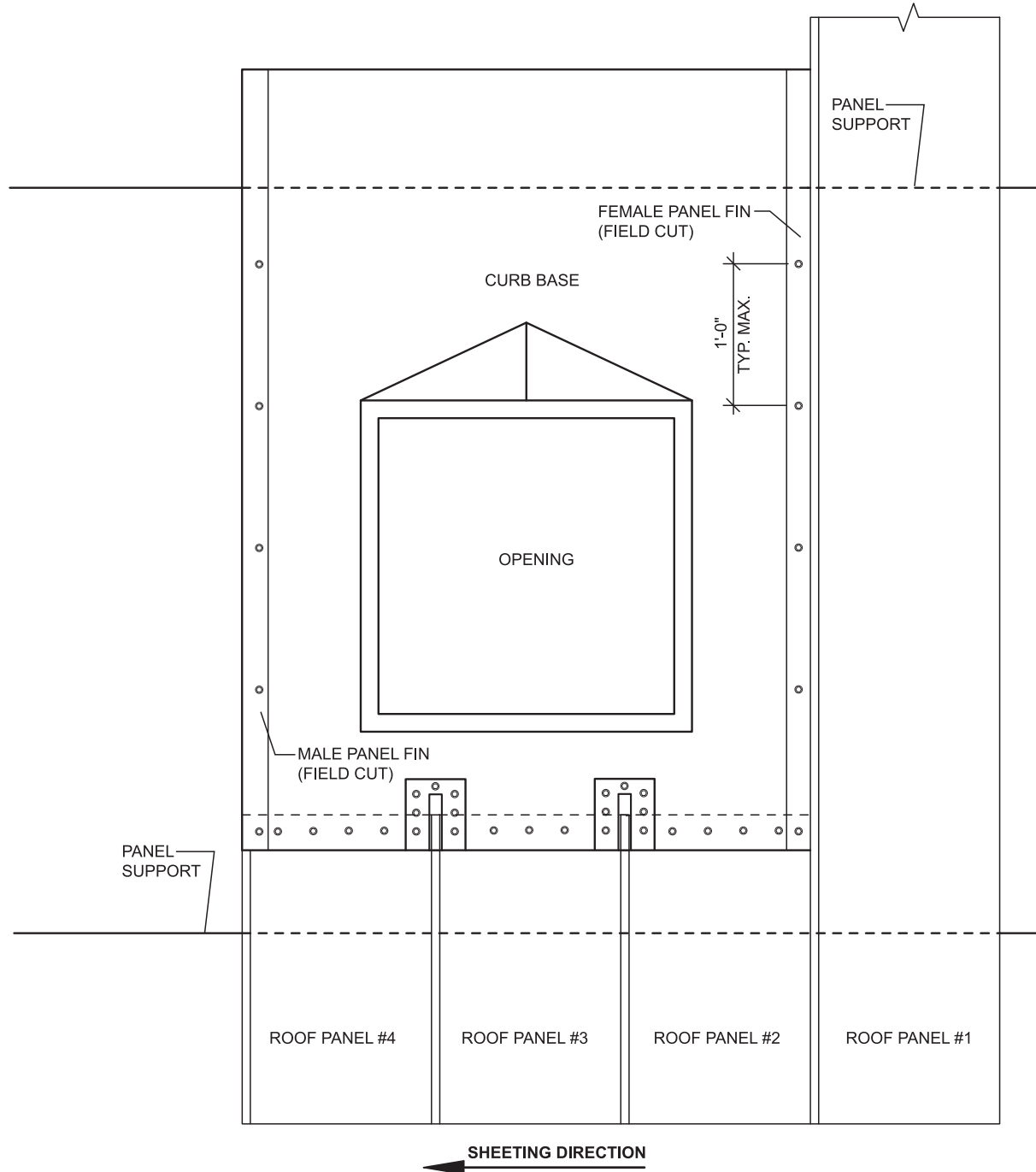
CAUTION

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SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION CURB BASE INSTALLATION #5



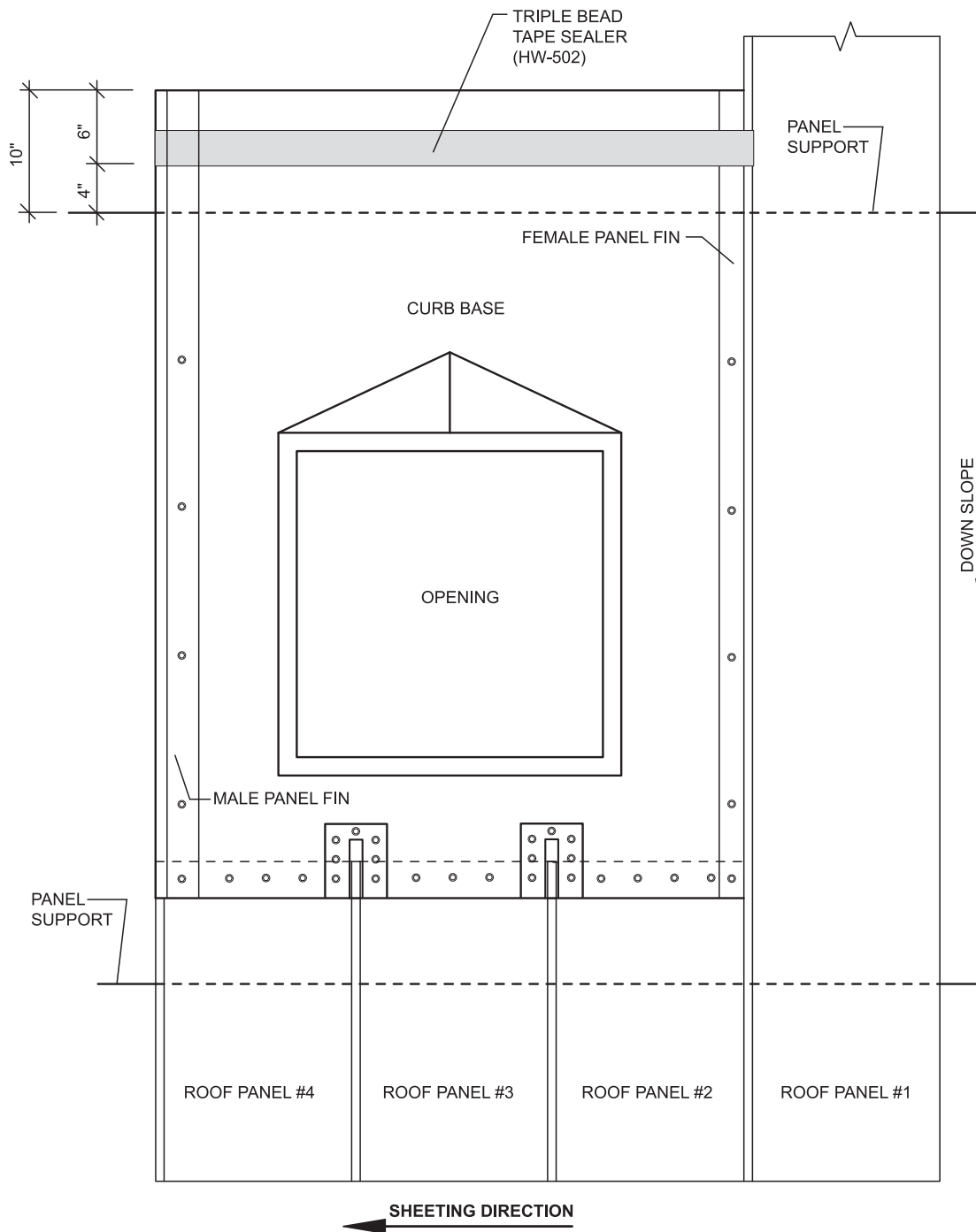
CAUTION

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SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION CURB BASE INSTALLATION #6



NOTES:

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

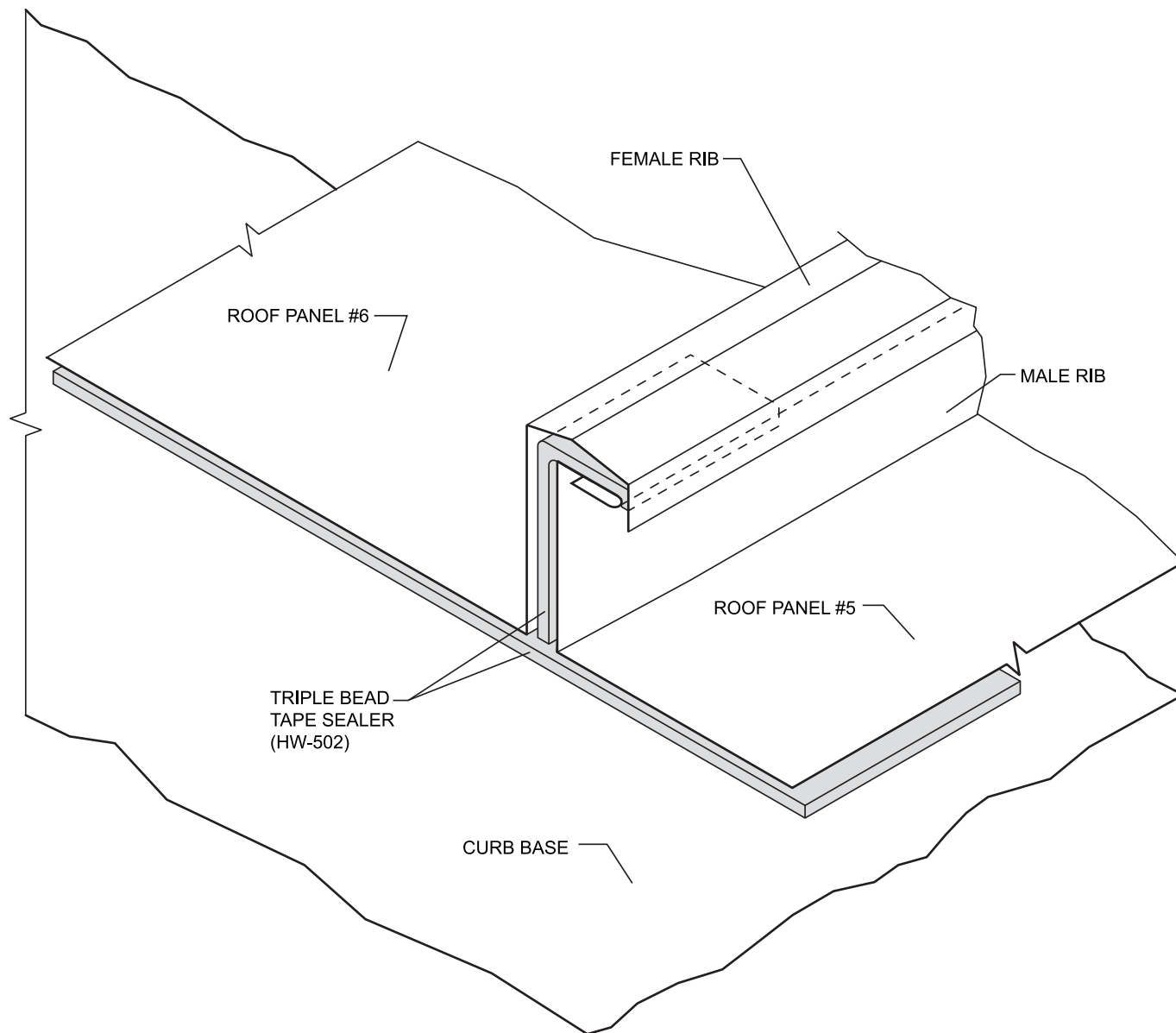
CAUTION

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SPECIAL ERECTION TECHNIQUES

SuperLok®

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.

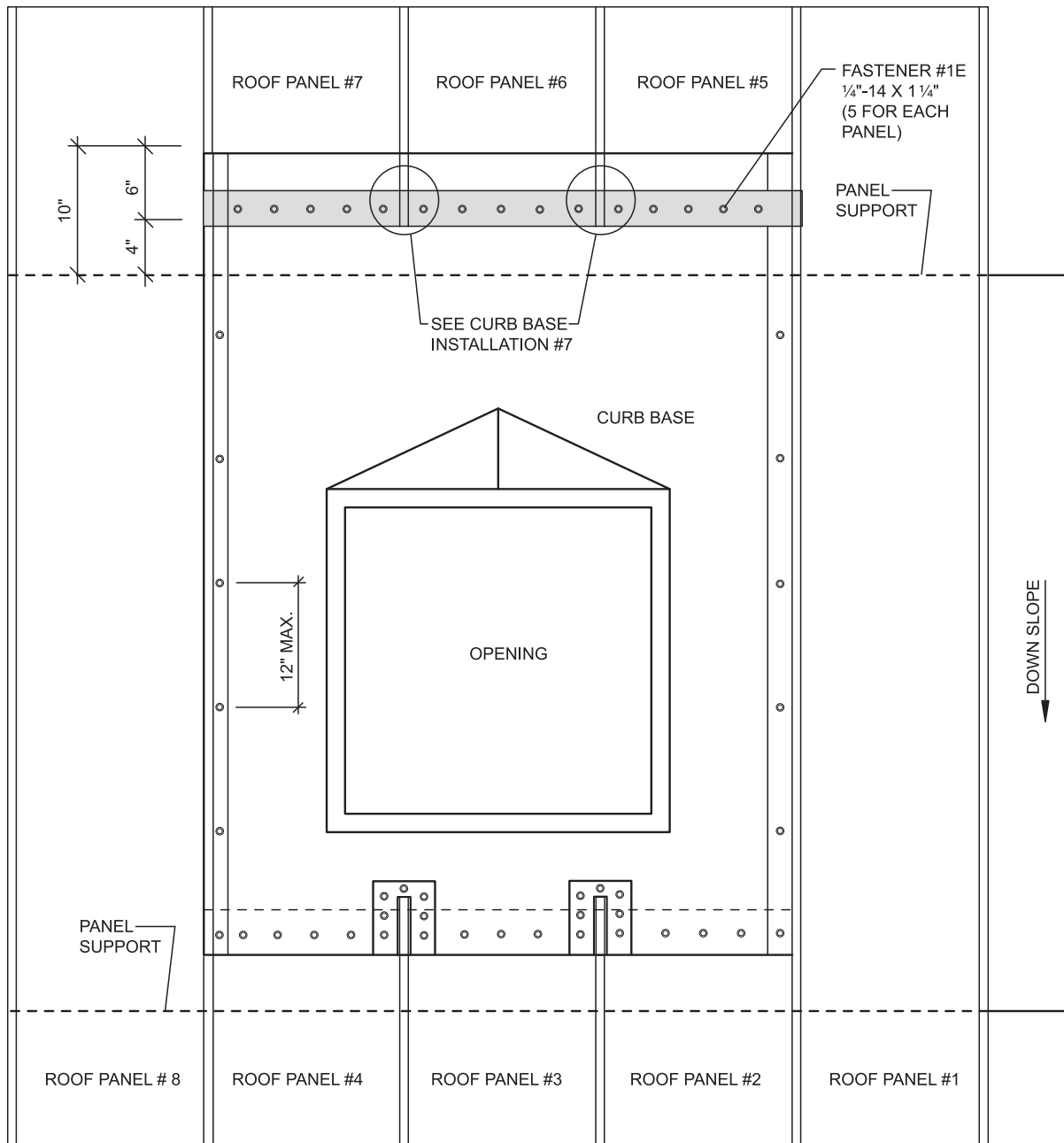
CAUTION

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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.

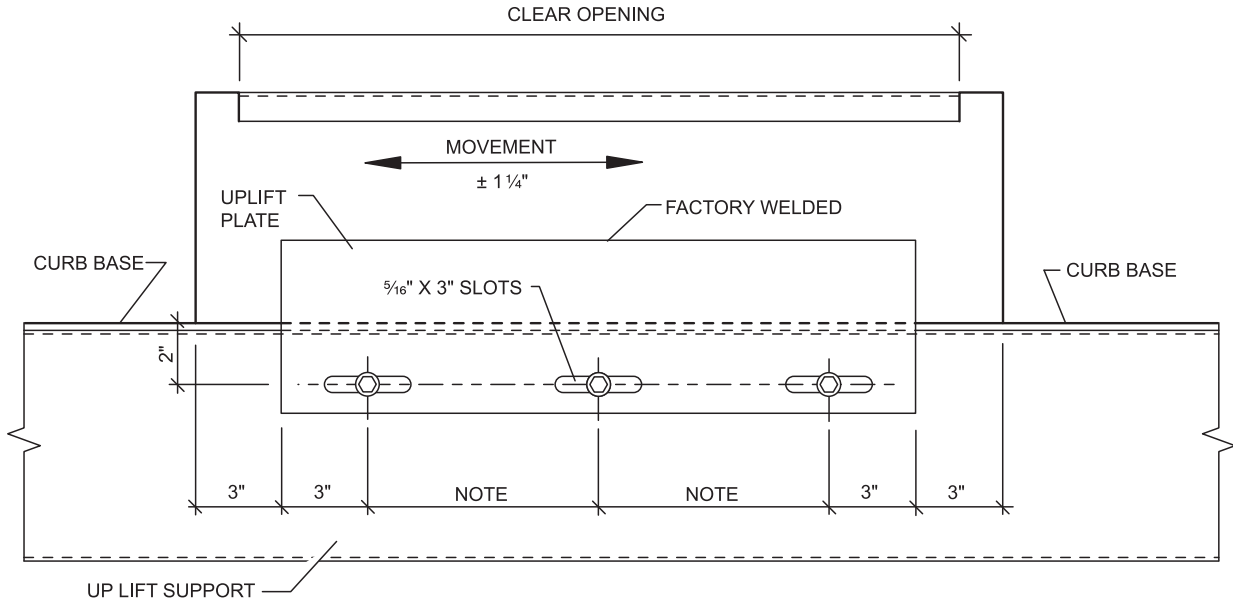
CAUTION

It is the user's responsibility to ensure that openings cut into the roof for installation of roof curbs comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding roof openings with plywood, fixed standard railings, or other acceptable safety controls that prevent fall-through.

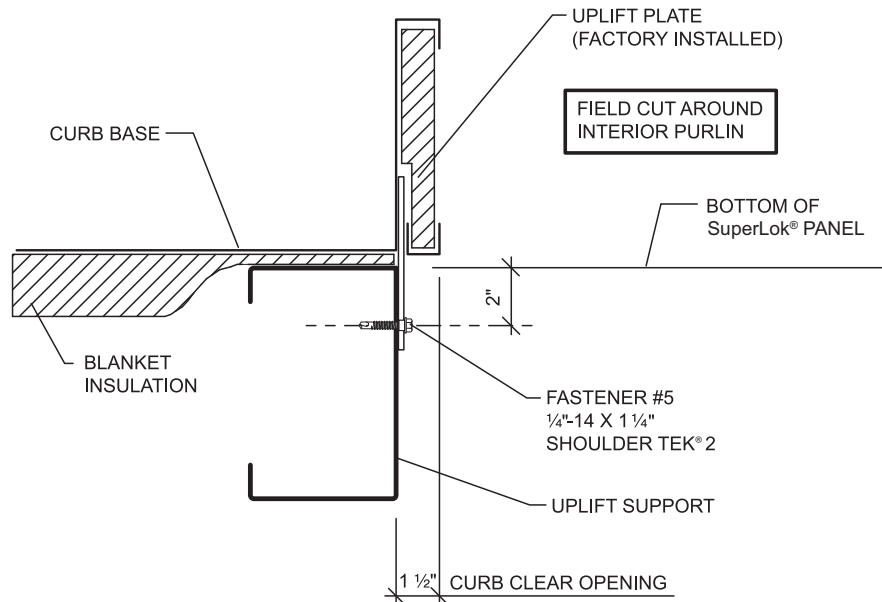
SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION UPLIFT PLATE DETAIL



NOTE: SLOT LOCATION IS DETERMINED BY THE CURB LENGTH, MAXIMUM SPACING IS 12" O.C.



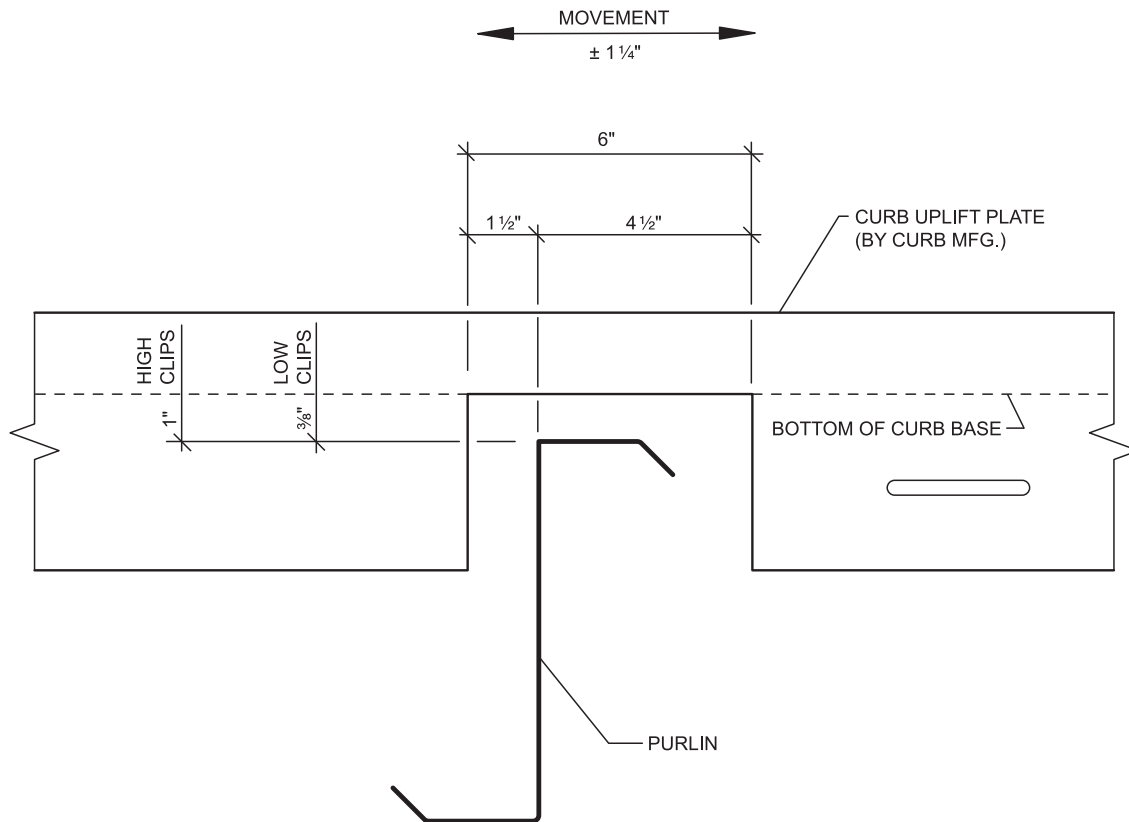
CAUTION

It is the user's responsibility to ensure that openings cut into the roof for installation of roof curbs comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding roof openings with plywood, fixed standard railings, or other acceptable safety controls that prevent fall-through.

SuperLok®

SPECIAL ERECTION TECHNIQUES

CURB INSTALLATION UPLIFT PLATE FIELD NOTCH



UPLIFT PLATE MUST BE FIELD NOTCHED AROUND THE BUILDING PURLIN TO ALLOW FOR PANEL MOVEMENT.

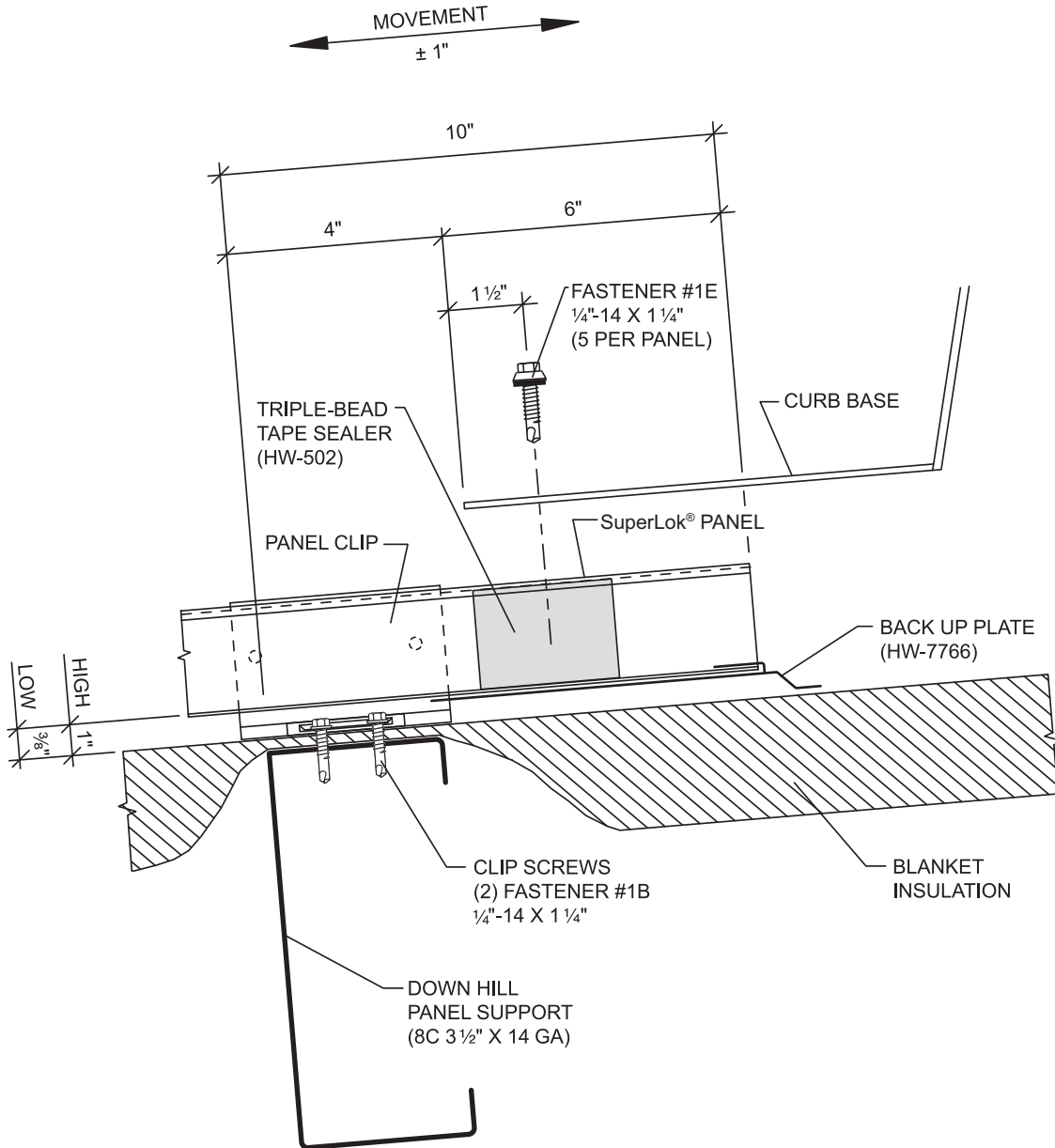
CAUTION

It is the user's responsibility to ensure that openings cut into the roof for installation of roof curbs comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding roof openings with plywood, fixed standard railings, or other acceptable safety controls that prevent fall-through.

SPECIAL ERECTION TECHNIQUES

SuperLok®

CURB INSTALLATION DOWN SLOPE CURB BASE END LAP



CAUTION

It is the user's responsibility to ensure that openings cut into the roof for installation of roof curbs comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding roof openings with plywood, fixed standard railings, or other acceptable safety controls that prevent fall-through.

SPECIAL ERECTION TECHNIQUES

Technical drawing illustrating the installation of a SuperLok® Panel, showing dimensions and components.

Dimensions:

- Overall width: 10"
- Left section width: 4"
- Right section width: 6"
- Fastener #1E spacing: 1 1/2"
- Fastener #5 spacing: 1 1/2"
- Panel height (LOW): 3/8"
- Panel height (HIGH): 1"

Components and Labels:

- MOVEMENT $\pm 1"$
- FASTENER #1E 1/4"-14 X 1 1/4" (5 PER PANEL)
- SuperLok® PANEL
- TRIPLE-BEAD TAPE SEALER (HW-502)
- CURB BASE
- FLOATING EAVE PLATE
- FASTENER #5 1/4"-14 X 1 1/4" SHOULDER TEK® 2 @ 12" O.C.
- UP SLOPE PANEL SUPPORT (8C 3 1/2" X 14GA)
- BLANKET INSULATION

Panel Height Specifications:

LOW	HIGH
HW-7617	HW-7618

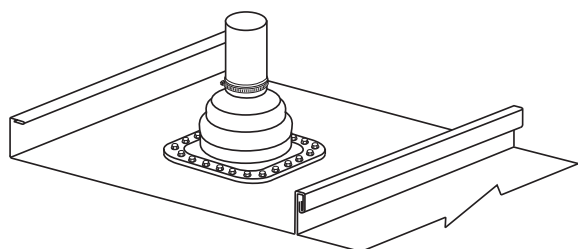
SL-60

SPECIAL ERECTION TECHNIQUES

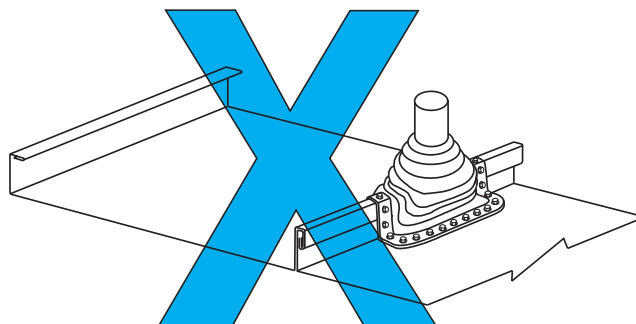
SuperLok®

PIPE PENETRATION INSTALLATION

RECOMMENDED SMALL AND LARGE PIPE PENETRATION INSTALLATION



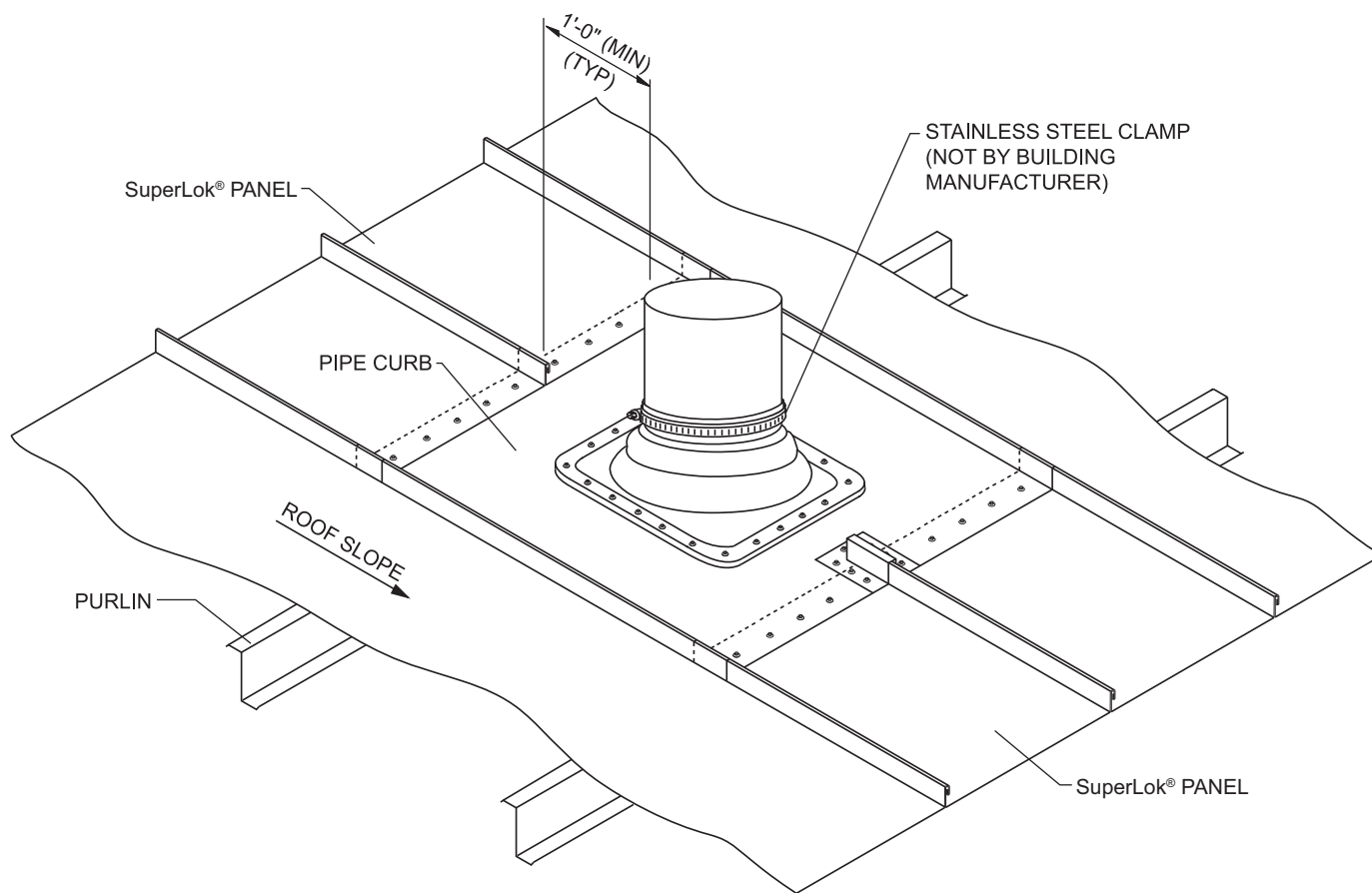
RIGHT WAY



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.



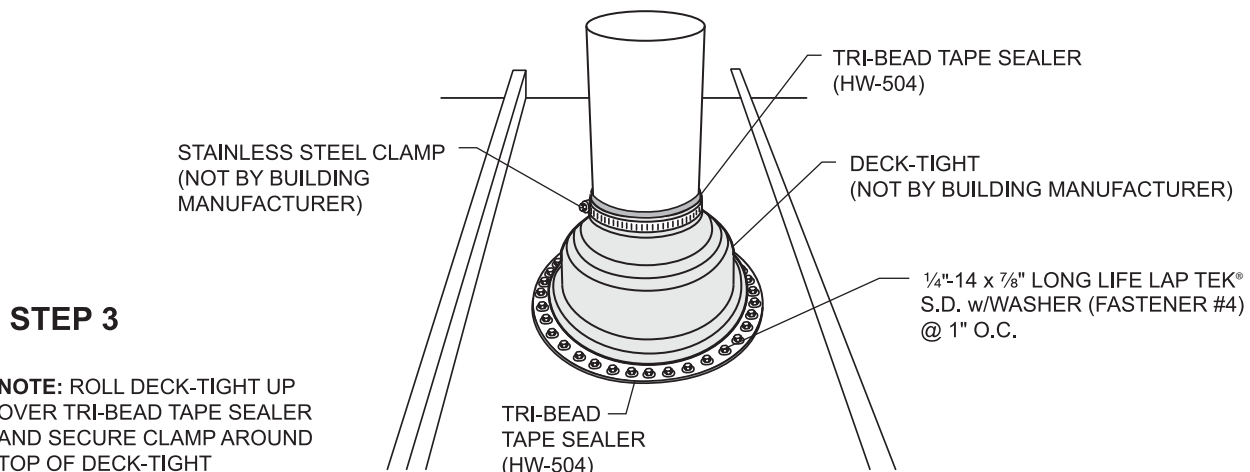
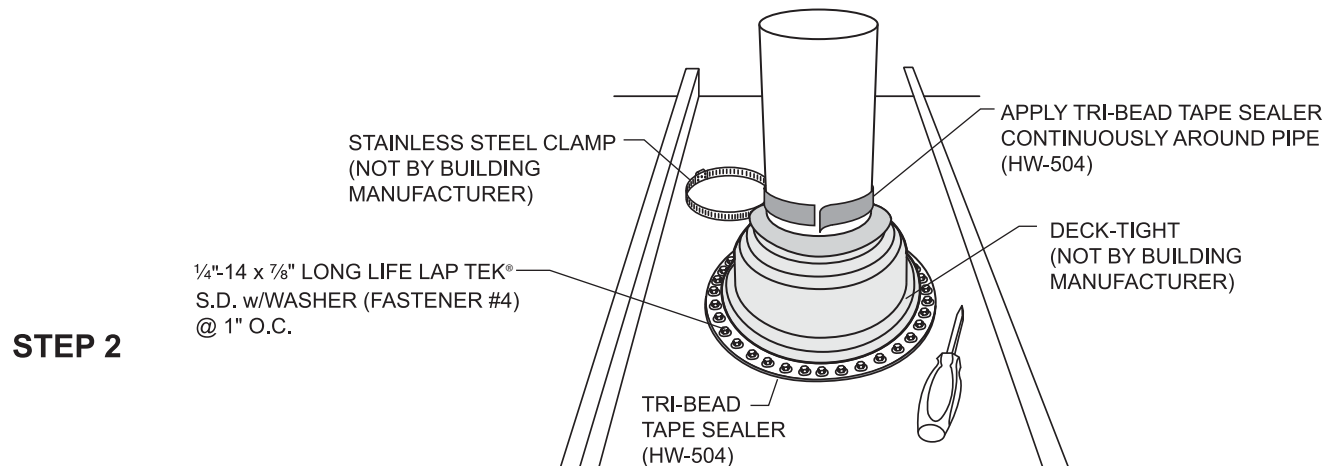
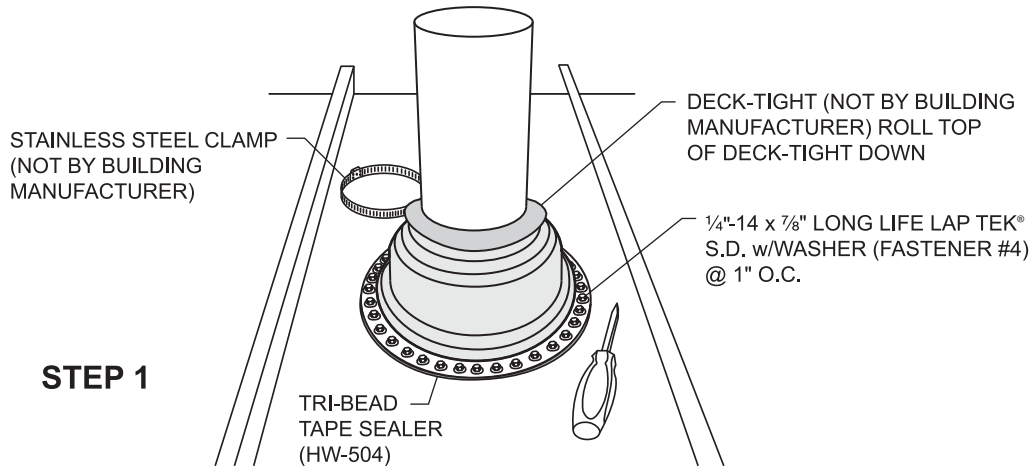
RECOMMENDED LARGE PIPE PENETRATION INSTALLATION

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.

SuperLok®

SPECIAL ERECTION TECHNIQUES

PIPE PENETRATION INSTALLATION DECK-TIGHT INSTALLATION

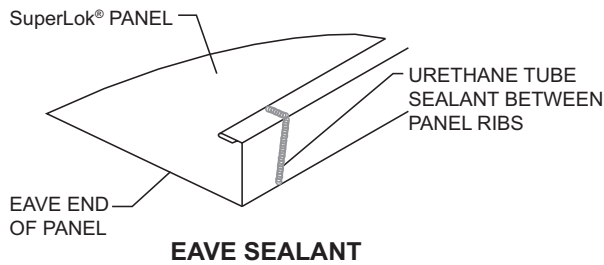
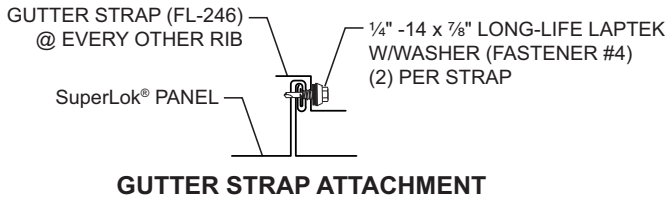


NOTE: ROLL DECK-TIGHT UP
OVER TRI-BEAD TAPE SEALER
AND SECURE CLAMP AROUND
TOP OF DECK-TIGHT

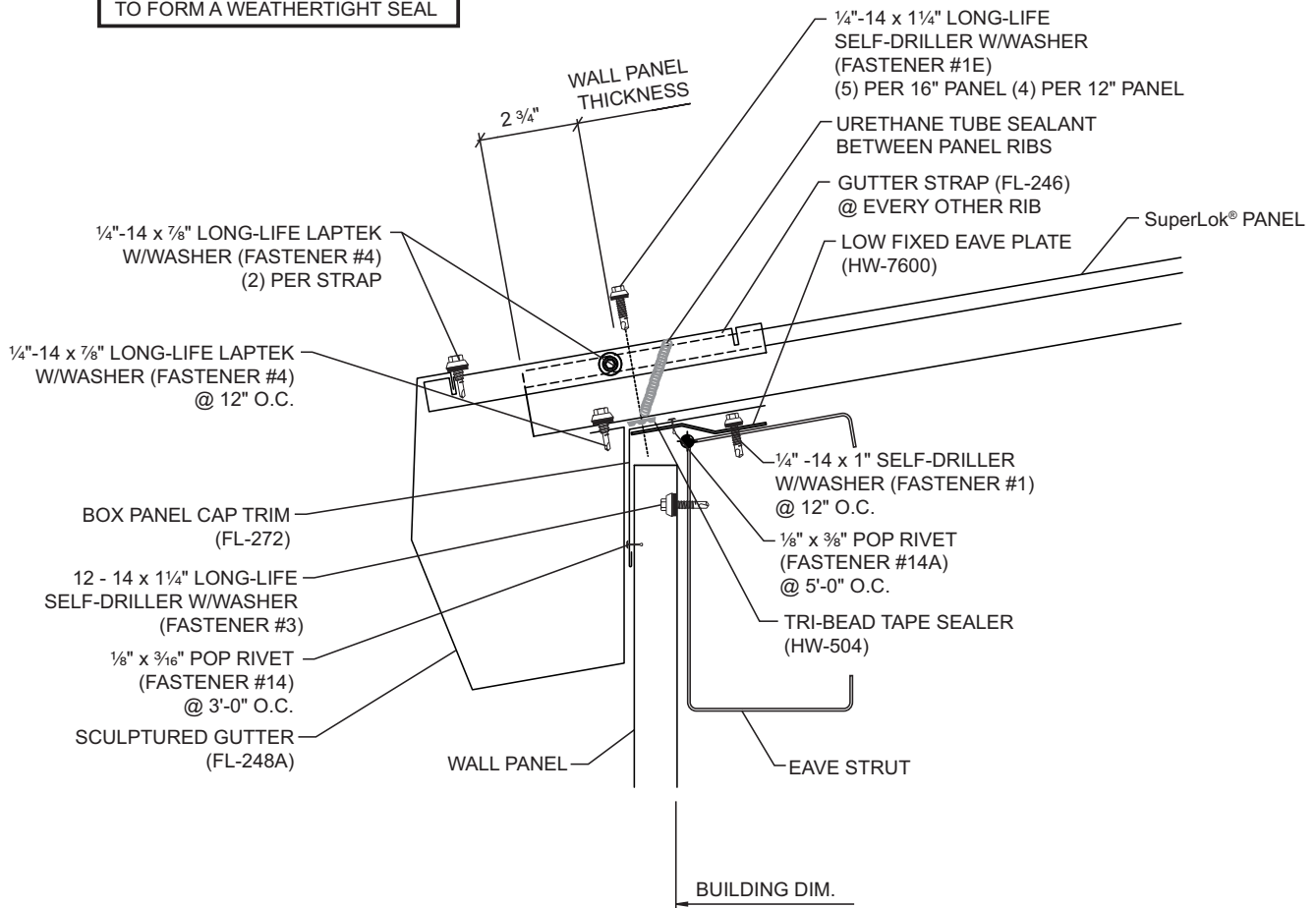
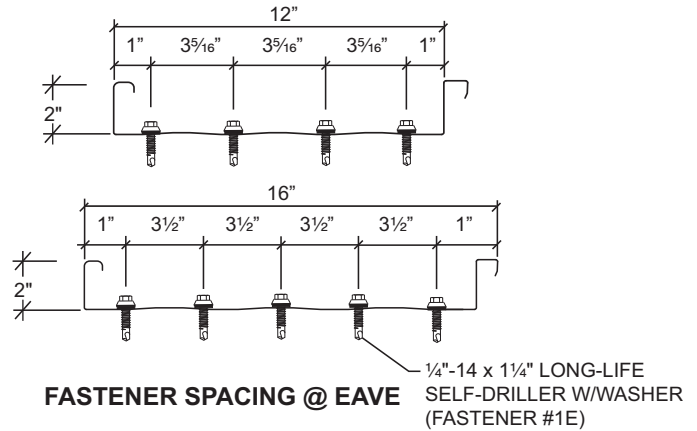
DETAILS

SuperLok®

OPEN FRAMING FIXED EAVE WITH SCULPTURED GUTTER



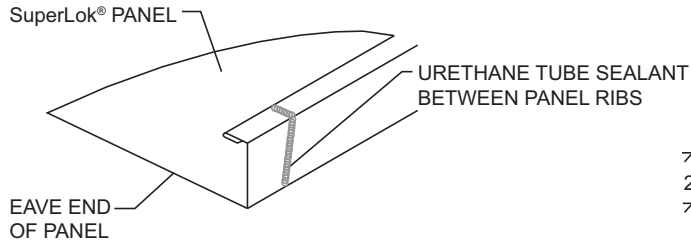
URETHANE SEALANT MUST COME
 IN CONTACT WITH TAPE SEALER
 TO FORM A WEATHERTIGHT SEAL



SuperLok®

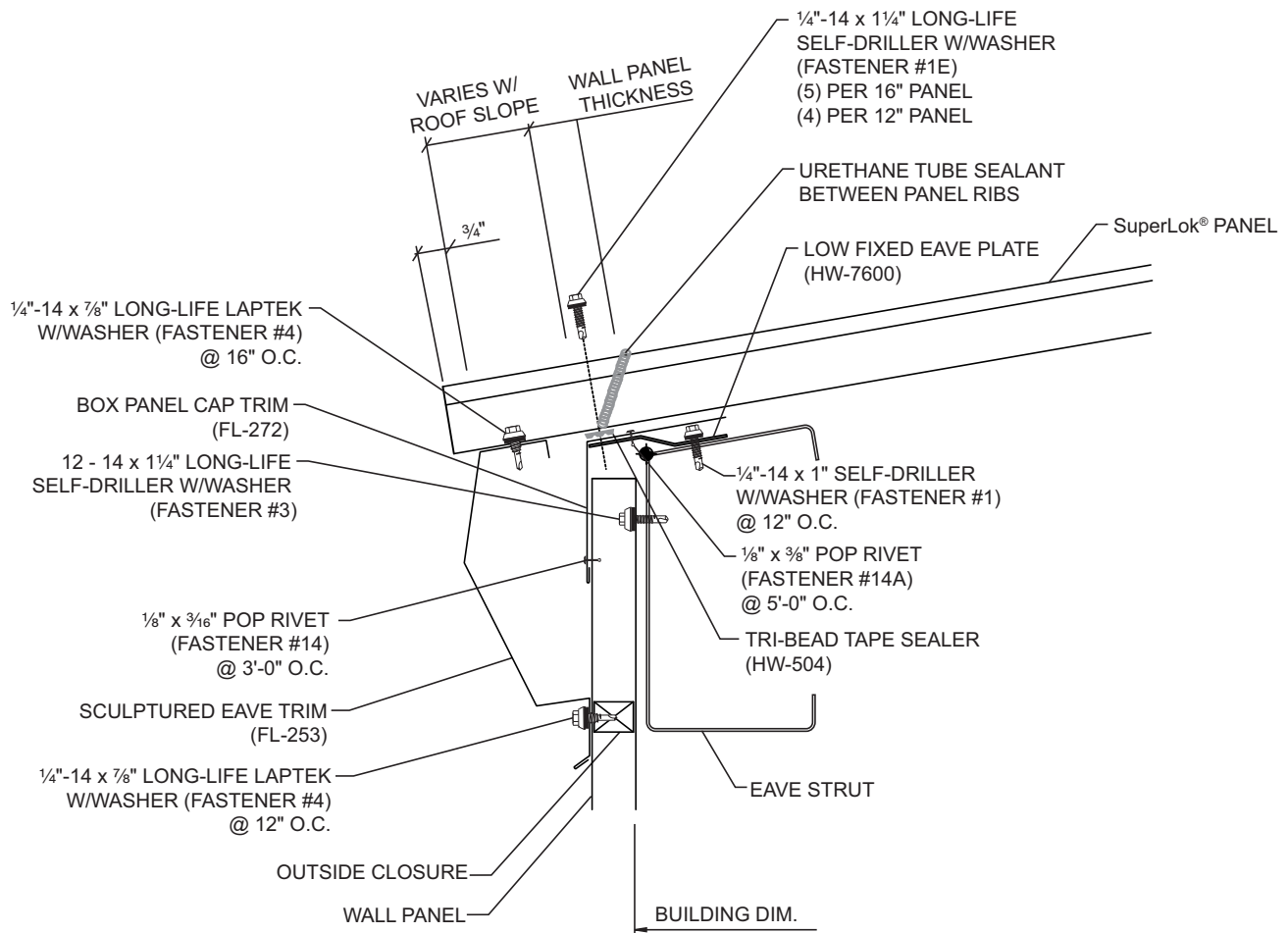
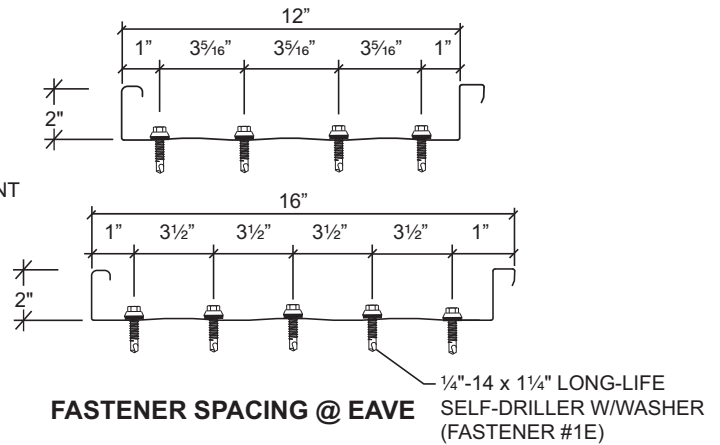
DETAILS

**OPEN FRAMING
FIXED EAVE WITH SCULPTURED EAVE TRIM**



EAVE SEALANT DETAIL

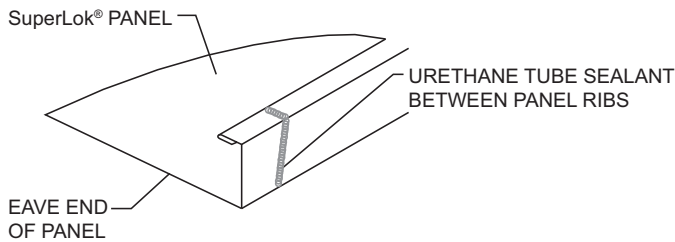
URETHANE SEALANT MUST COME IN CONTACT WITH TAPE SEALER TO FORM A WEATHERTIGHT SEAL



DETAILS

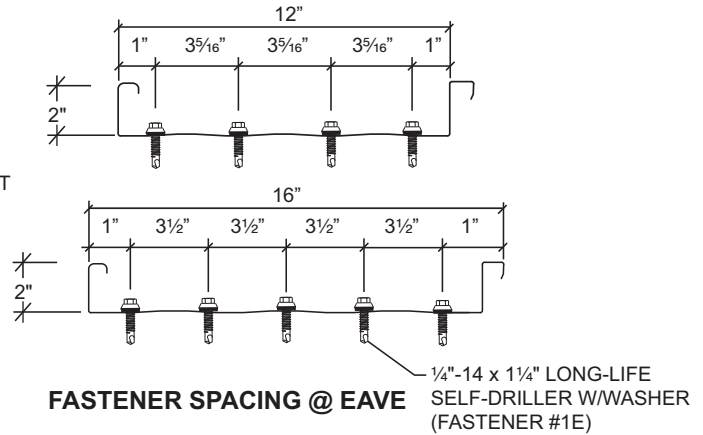
SuperLok®

OPEN FRAMING FIXED EAVE WITH BOX EAVE TRIM

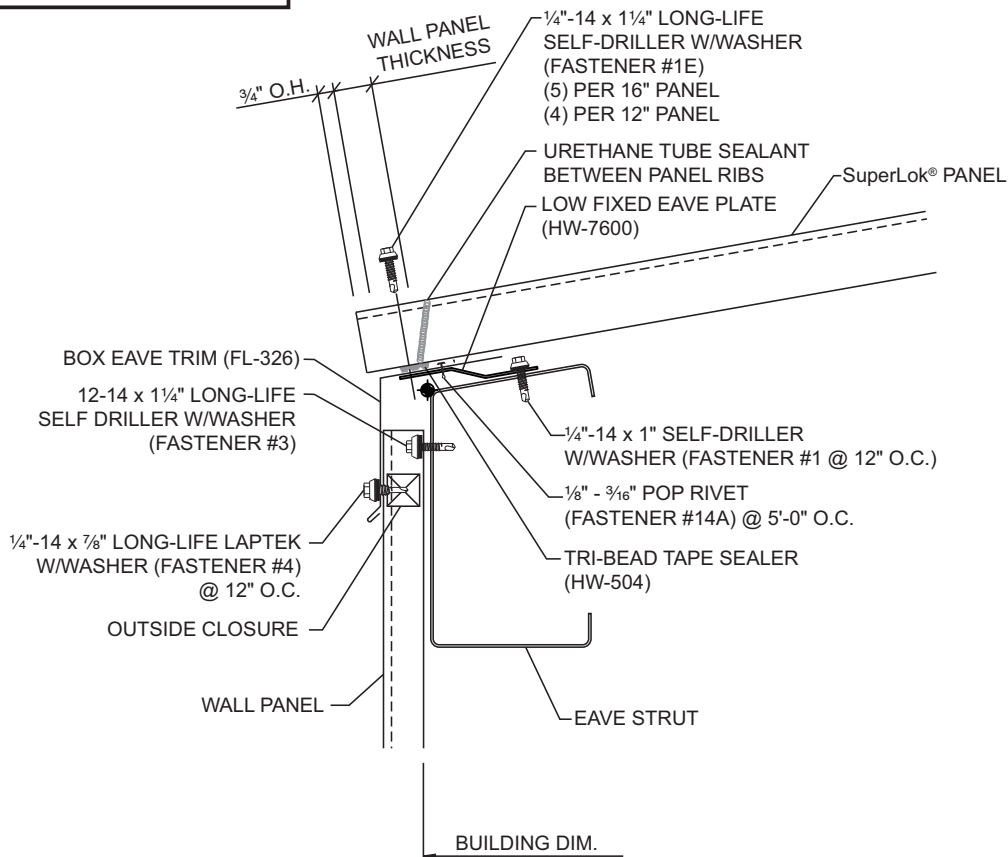


EAVE SEALANT DETAIL

URETHANE SEALANT MUST COME IN CONTACT WITH TAPE SEALER TO FORM A WEATHERTIGHT SEAL



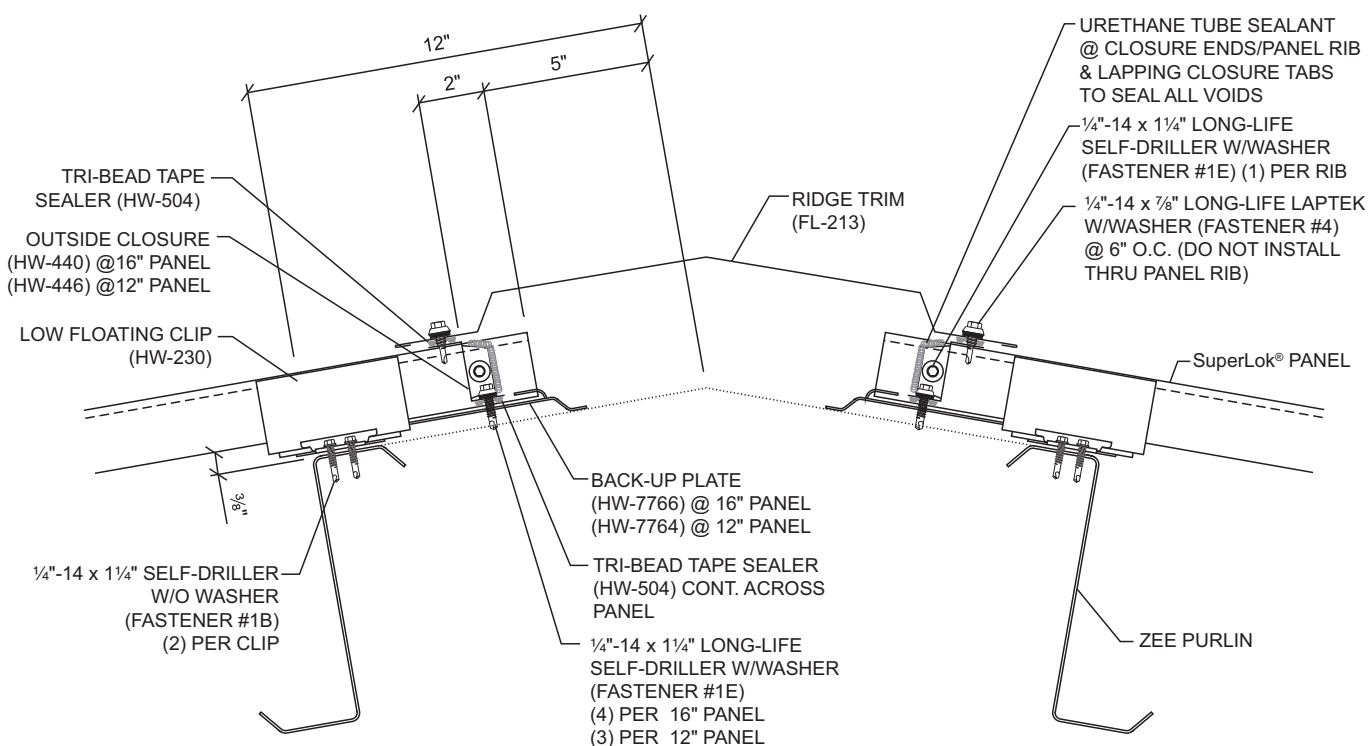
FASTENER SPACING @ EAVE



SuperLok®

DETAILS

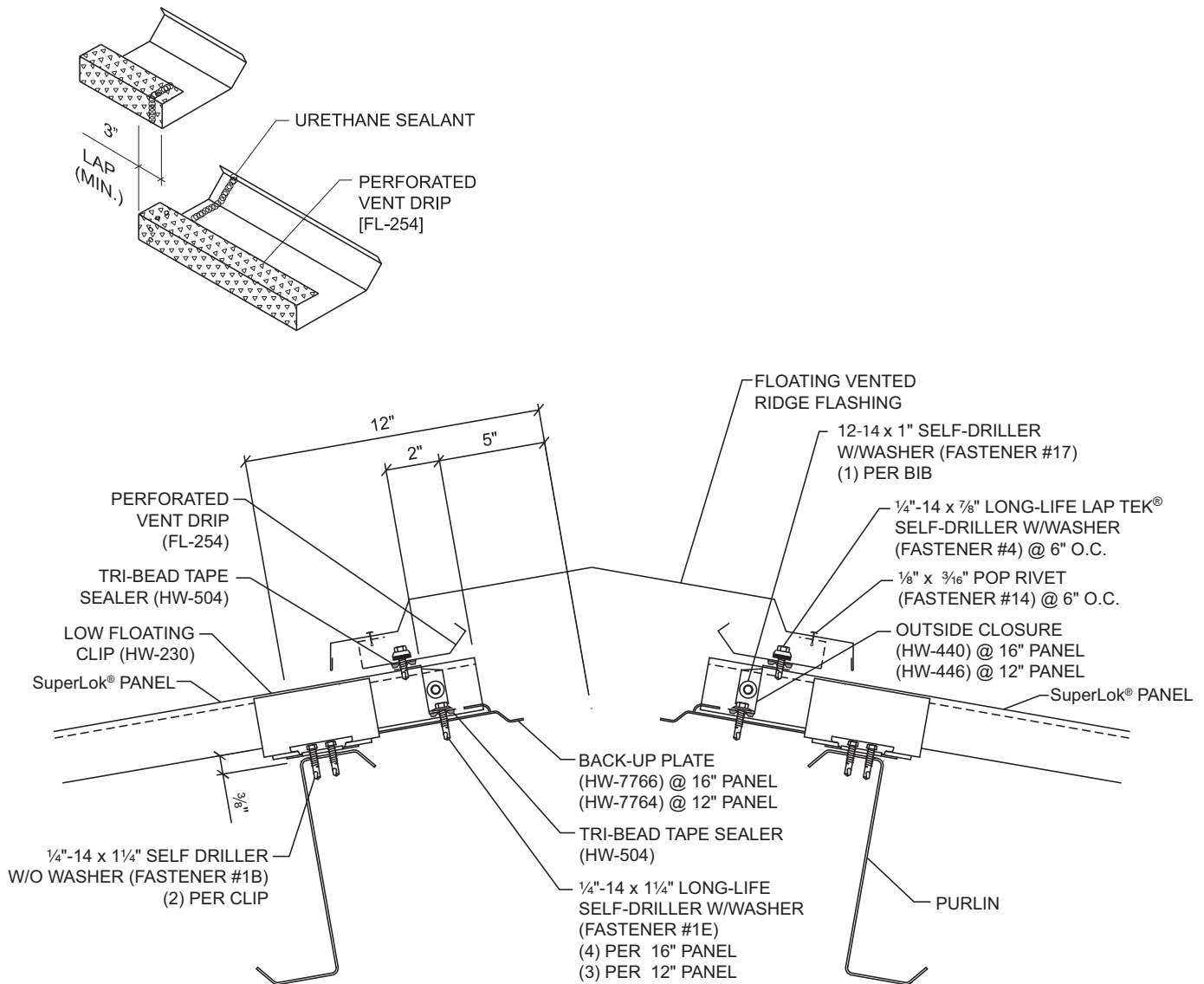
**OPEN FRAMING
FLOATING RIDGE**



DETAILS

SuperLok®

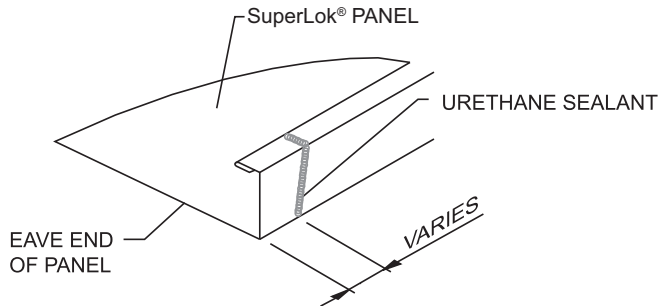
OPEN FRAMING FLOATING VENTED RIDGE



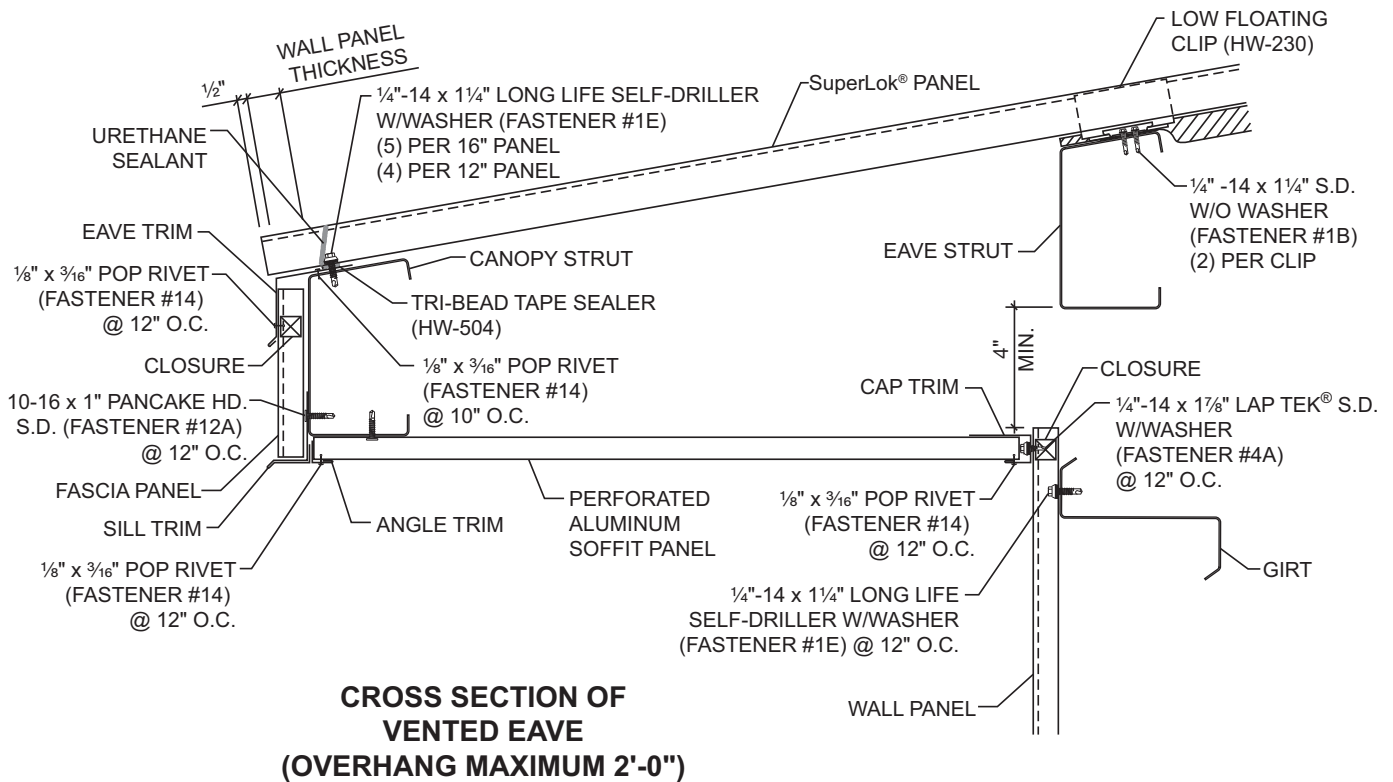
SuperLok®

DETAILS

**OPEN FRAMING
FIXED VENTED EAVE**



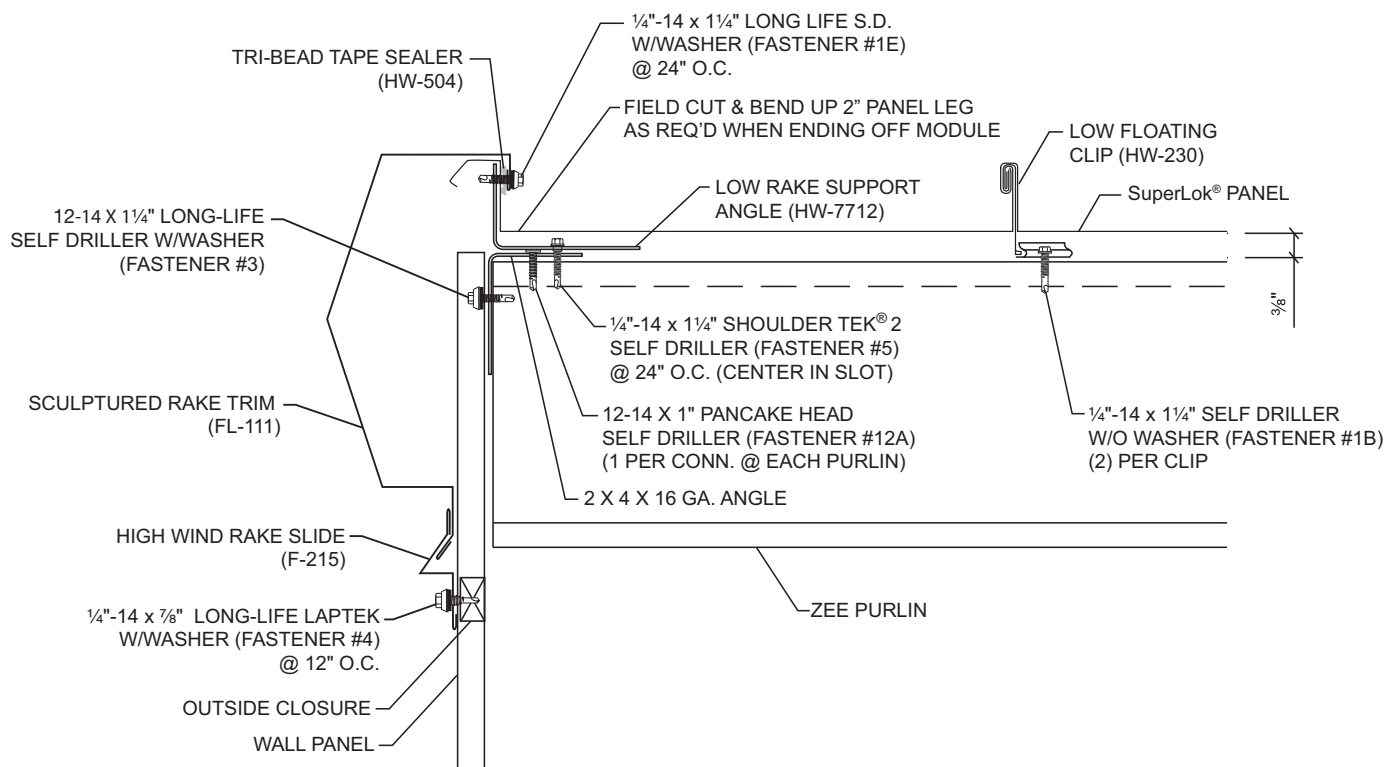
URETHANE SEALANT MUST COME IN CONTACT WITH TAPE SEALER TO FORM A WEATHERTIGHT SEAL



DETAILS

SuperLok®

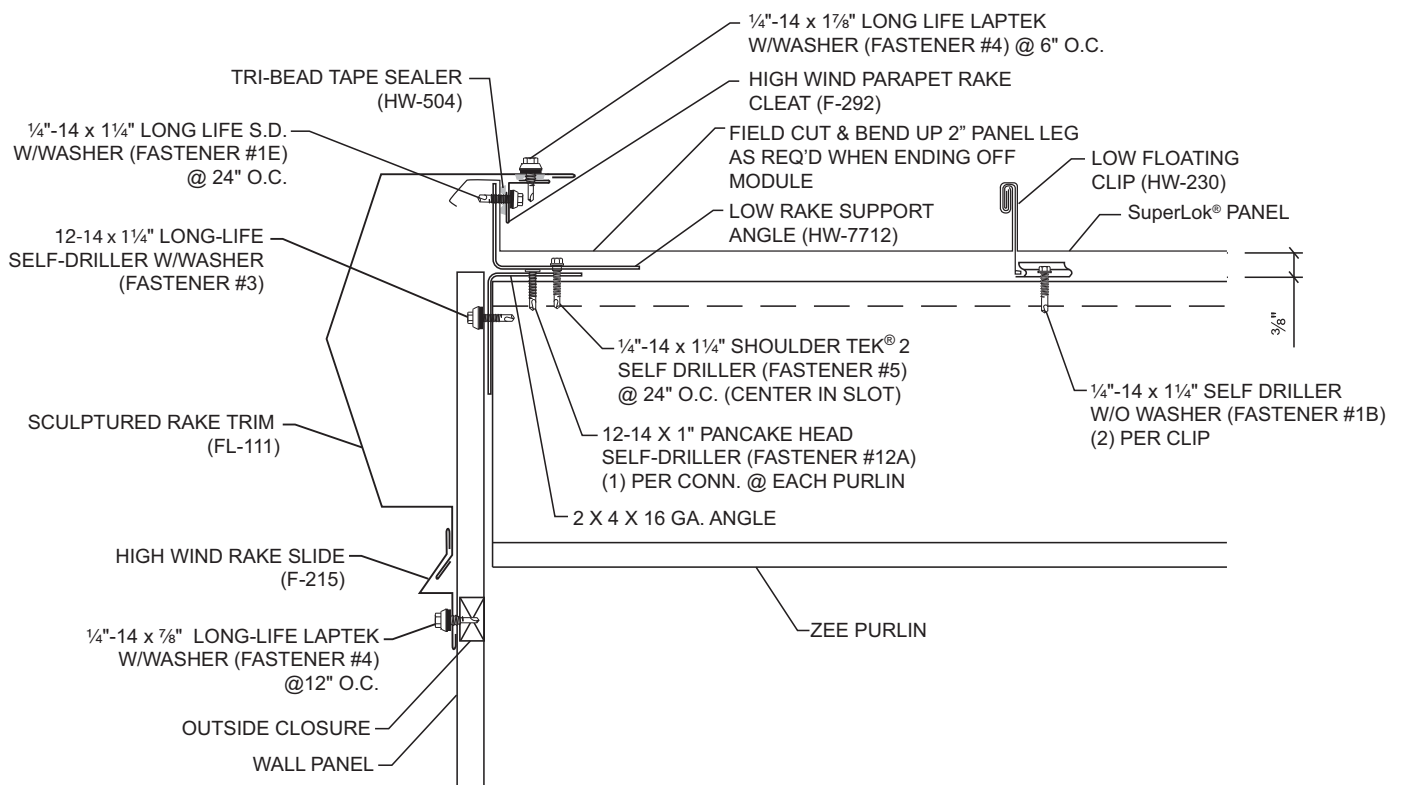
OPEN FRAMING SCULPTURED RAKE



DETAILS

SuperLok®

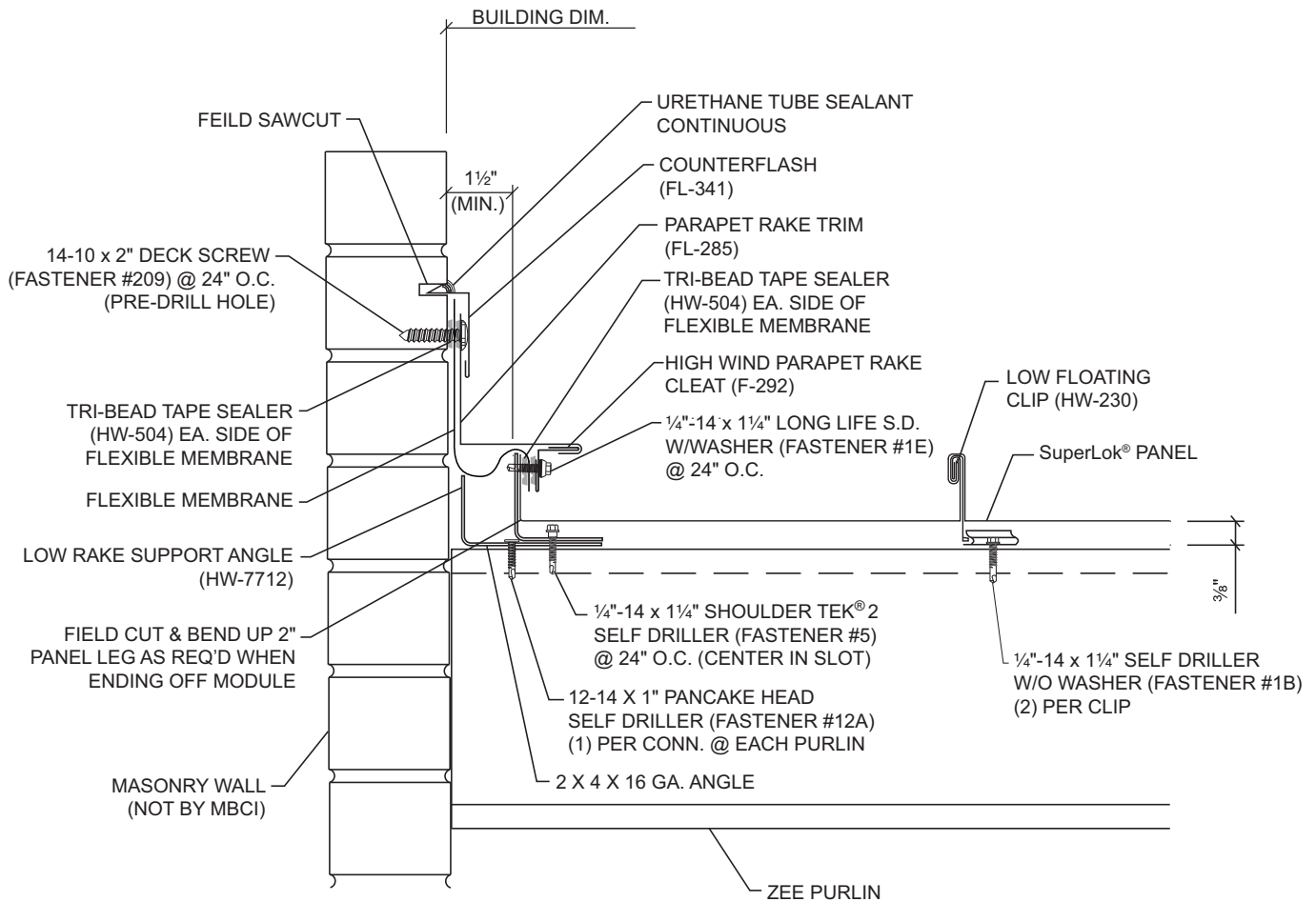
OPEN FRAMING SCULPTURED RAKE WITH CLEAT



DETAILS

SuperLok®

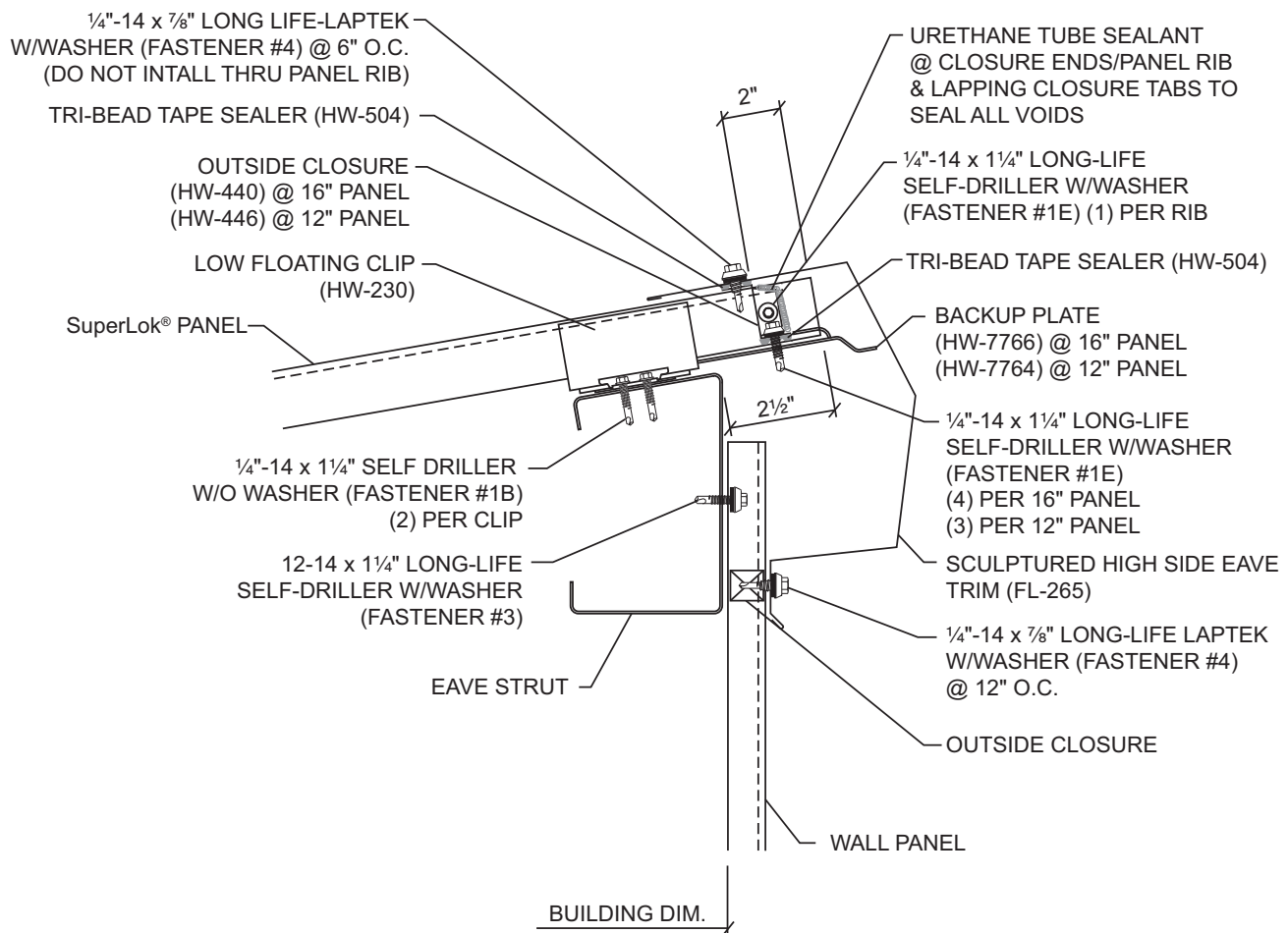
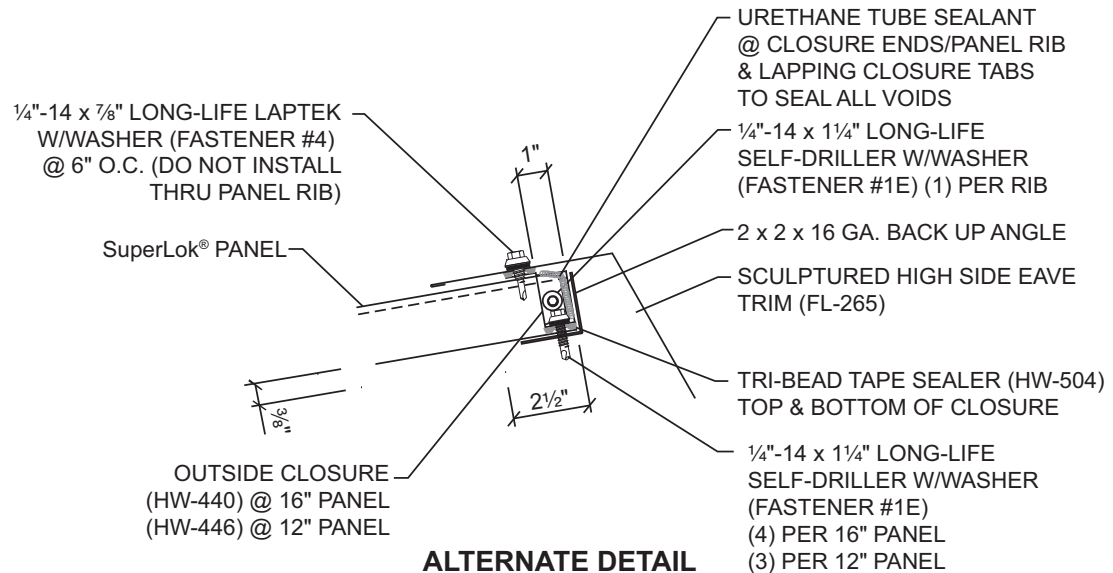
OPEN FRAMING PARAPET RAKE



SuperLok®

DETAILS

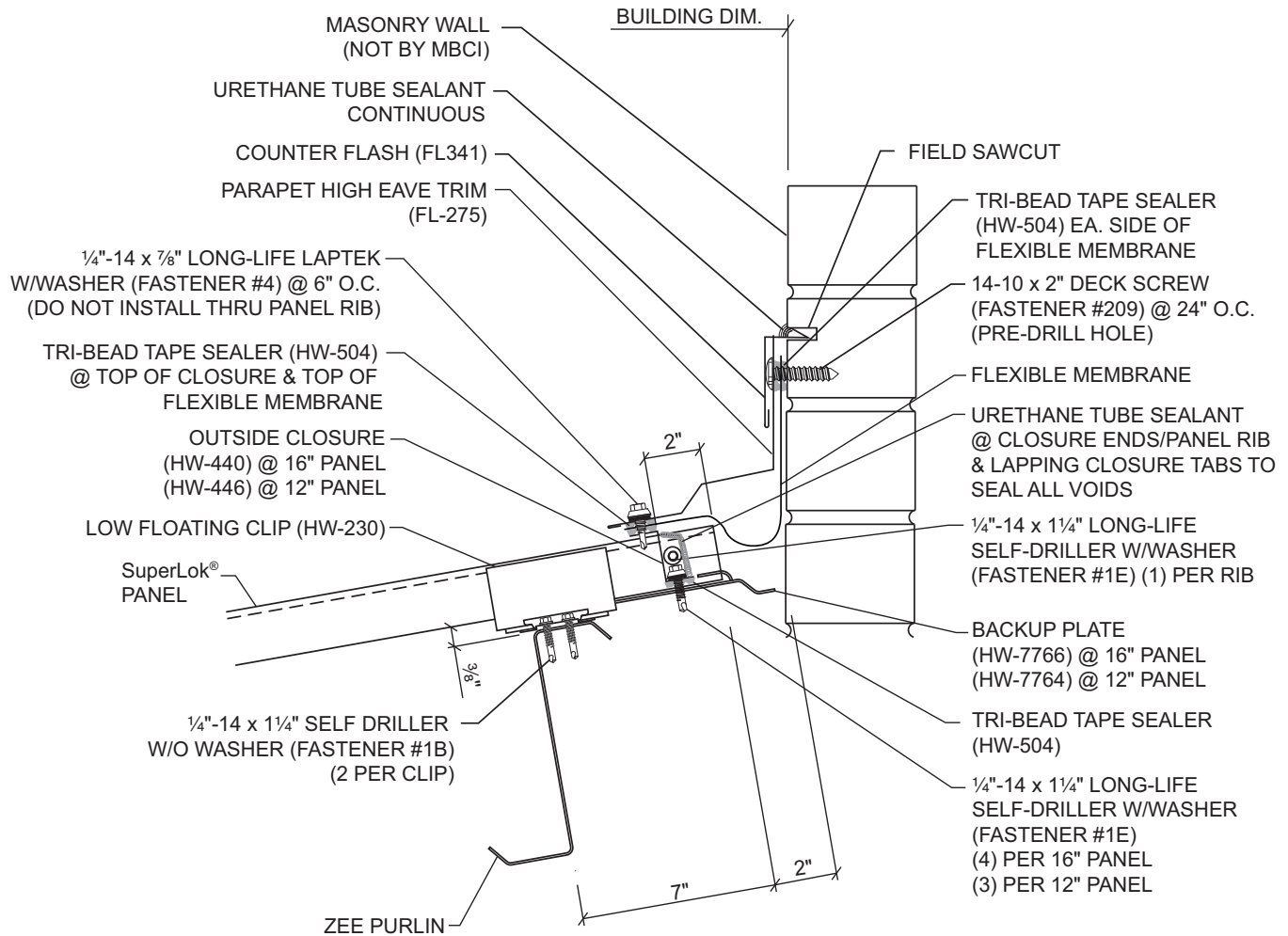
**OPEN FRAMING
FLOATING SCULPTURED HIGH SIDE EAVE**



DETAILS

SuperLok®

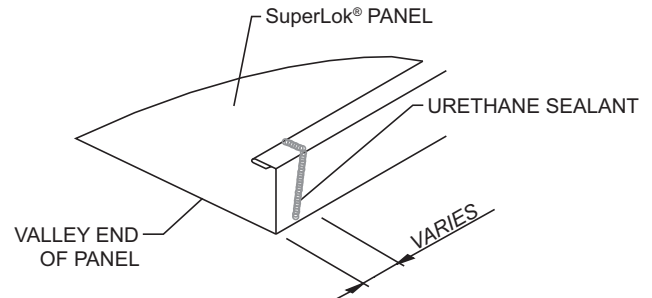
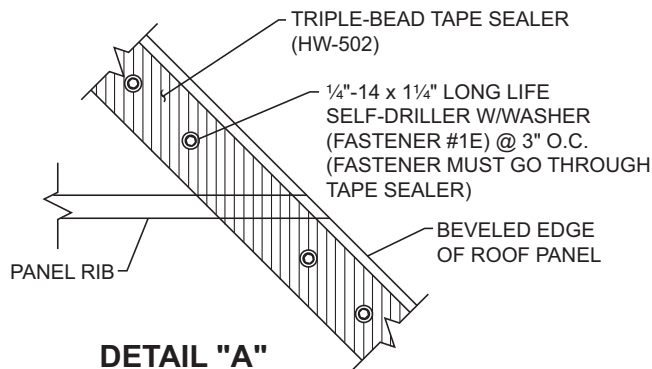
OPEN FRAMING PARAPET FLOATING HIGH SIDE EAVE



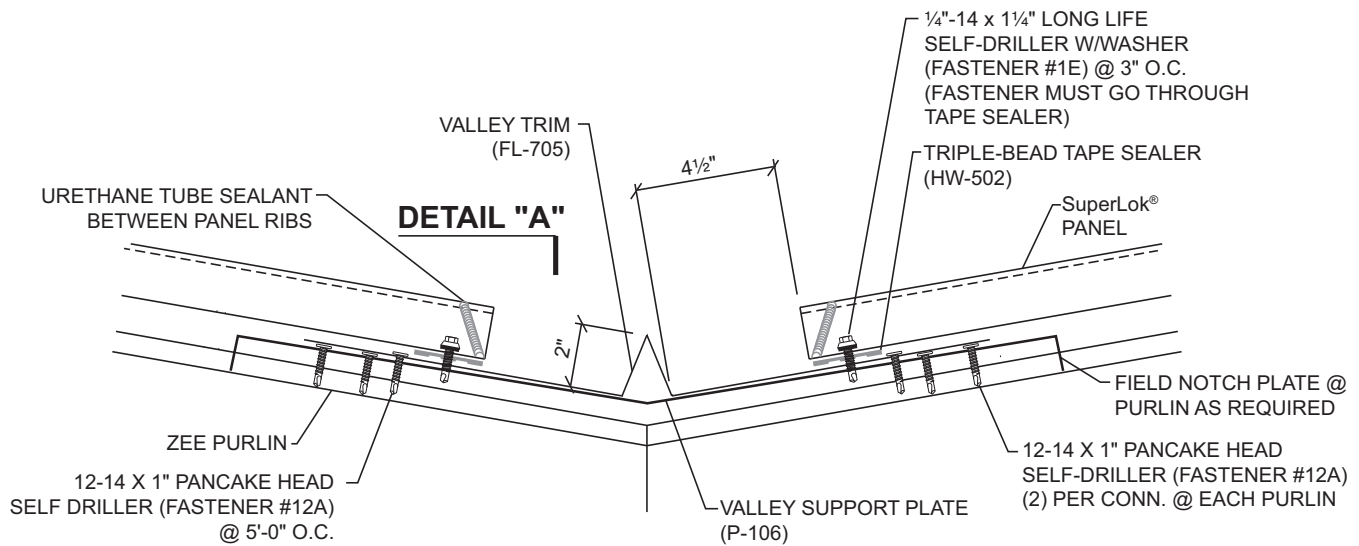
SuperLok®

DETAILS

OPEN FRAMING FIXED VALLEY



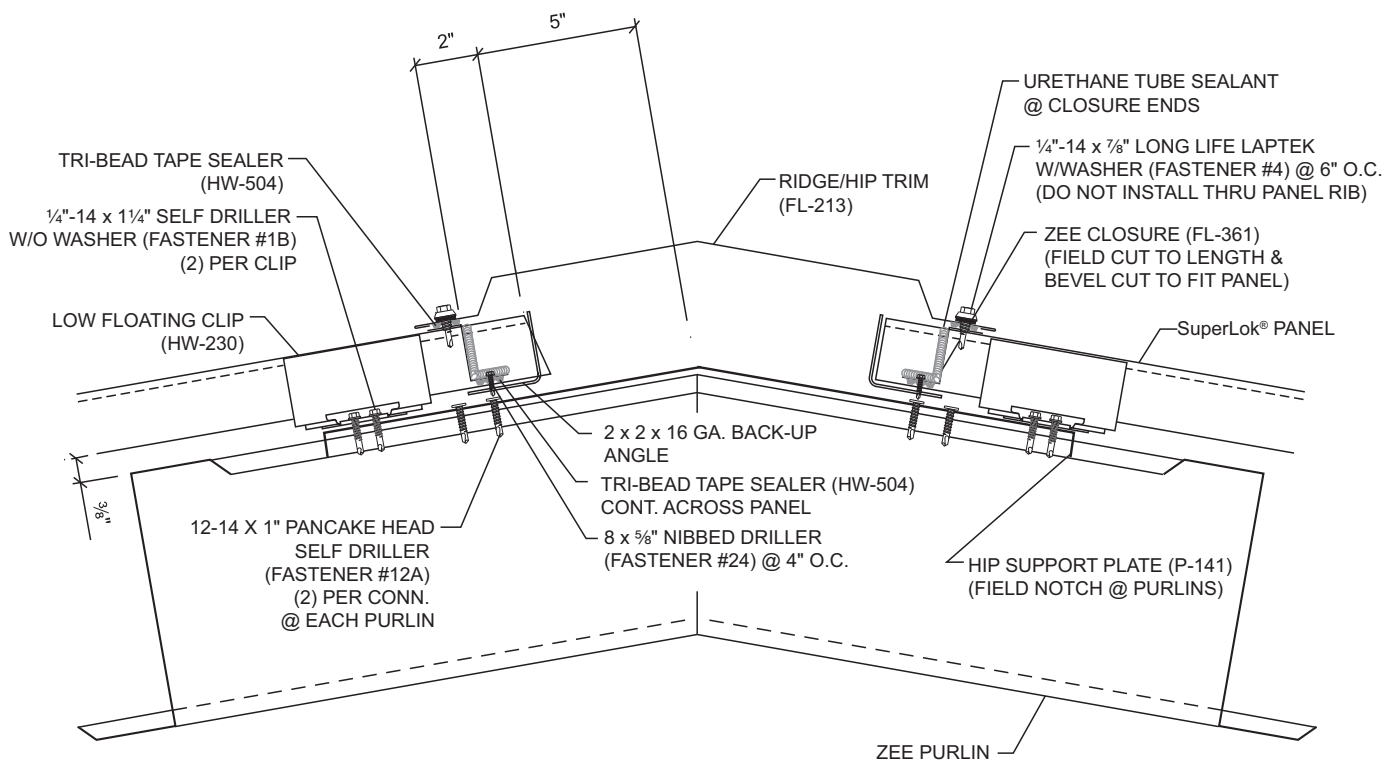
URETHANE SEALANT MUST COME IN CONTACT WITH TAPE SEALER TO FORM A WEATHERTIGHT SEAL



DETAILS

SuperLok®

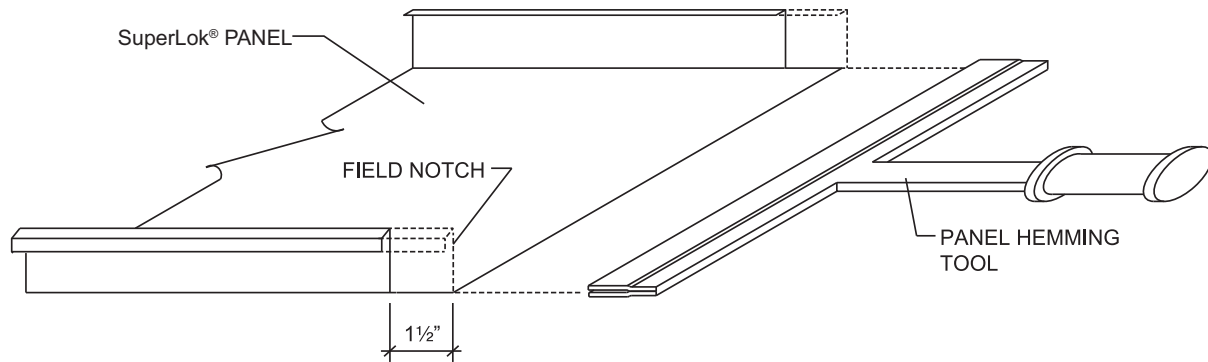
OPEN FRAMING FLOATING HIP



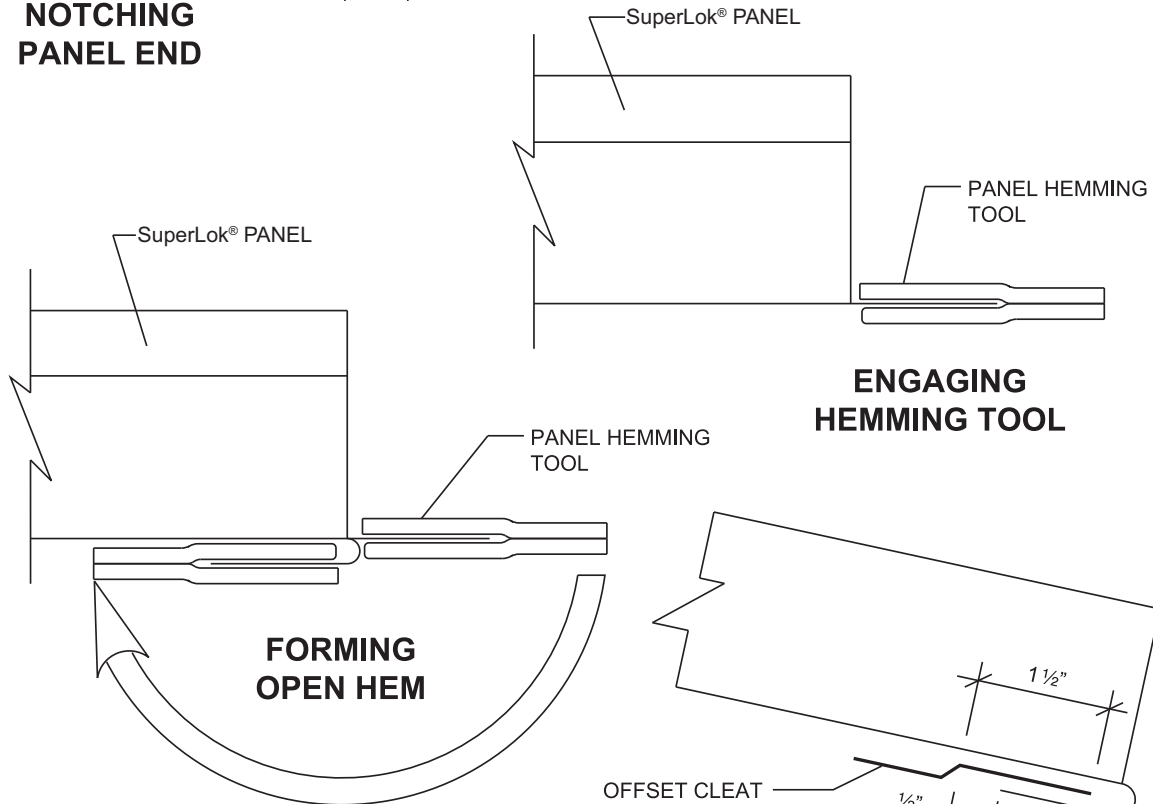
SuperLok®

DETAILS

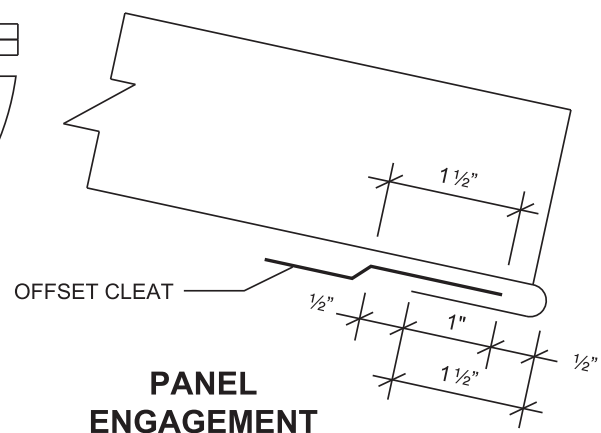
FIELD HEMMING PANEL END



**NOTCHING
PANEL END**



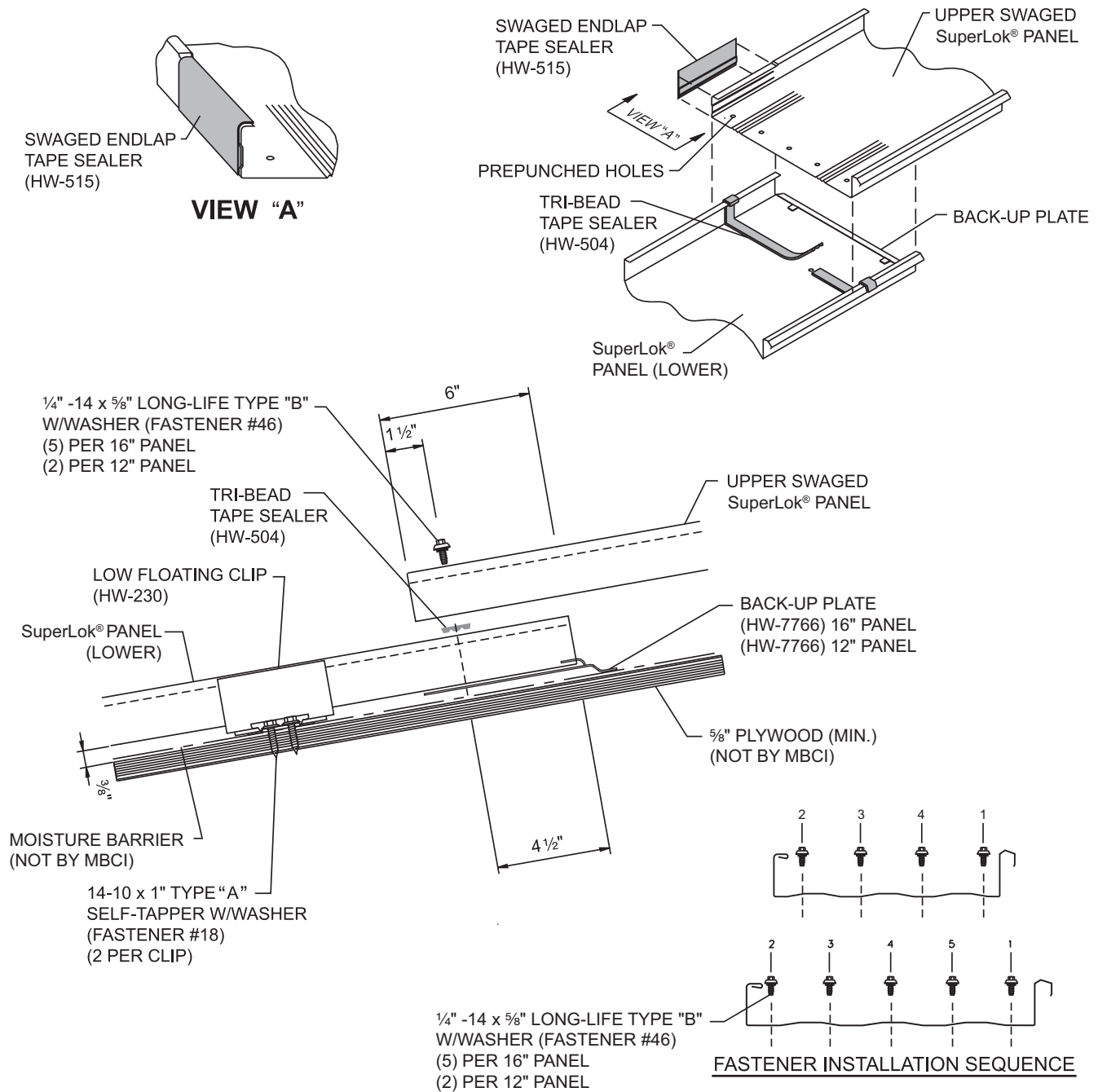
**ENGAGING
HEMMING TOOL**



DETAILS

SuperLok®

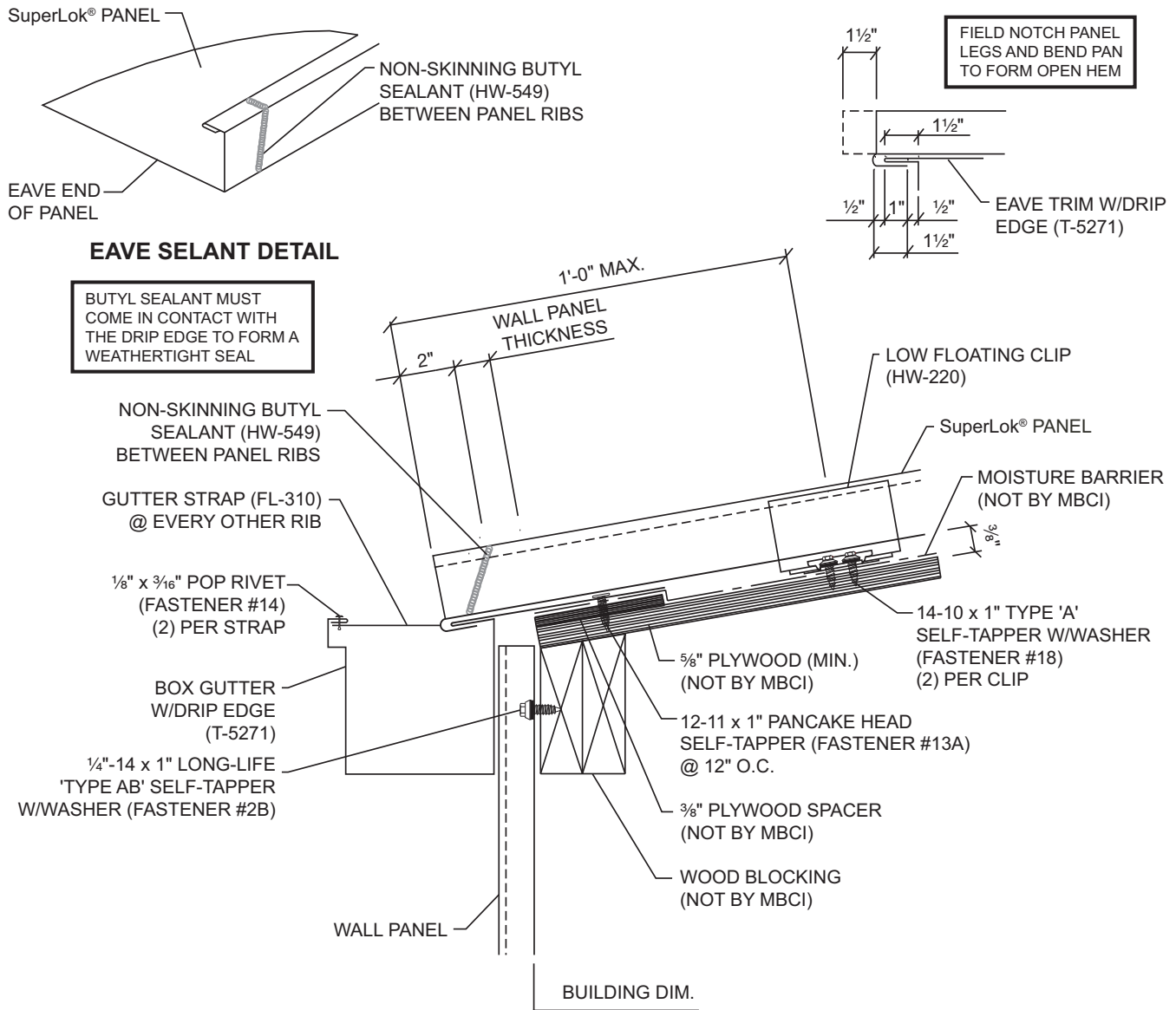
WOOD DECK FLOATING ENDLAP



SuperLok®

DETAILS

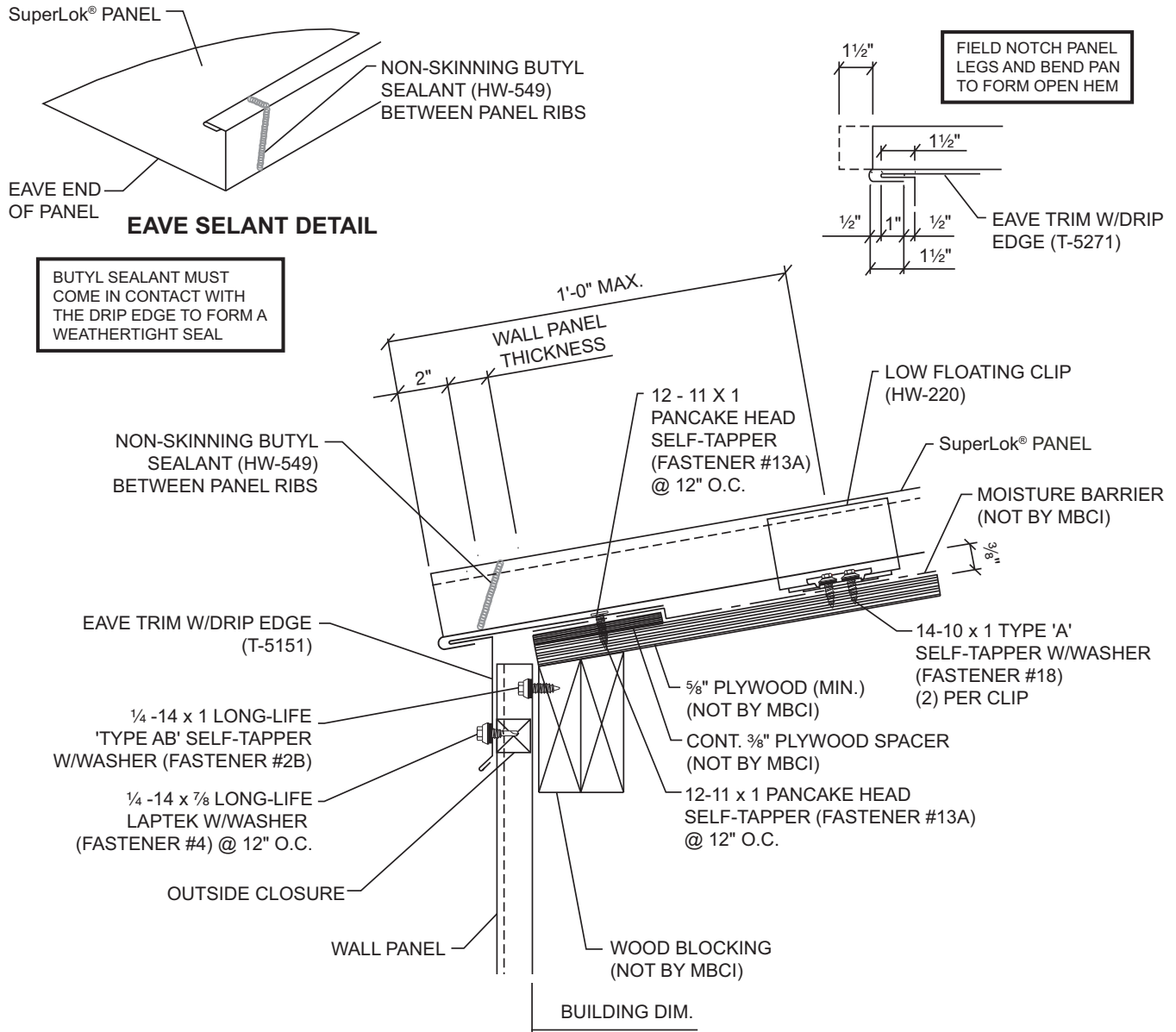
WOOD DECK FLOATING EAVE WITH BOX GUTTER



DETAILS

SuperLok®

WOOD DECK FLOATING EAVE WITH EAVE TRIM WITH EXTENDED DRIP EDGE

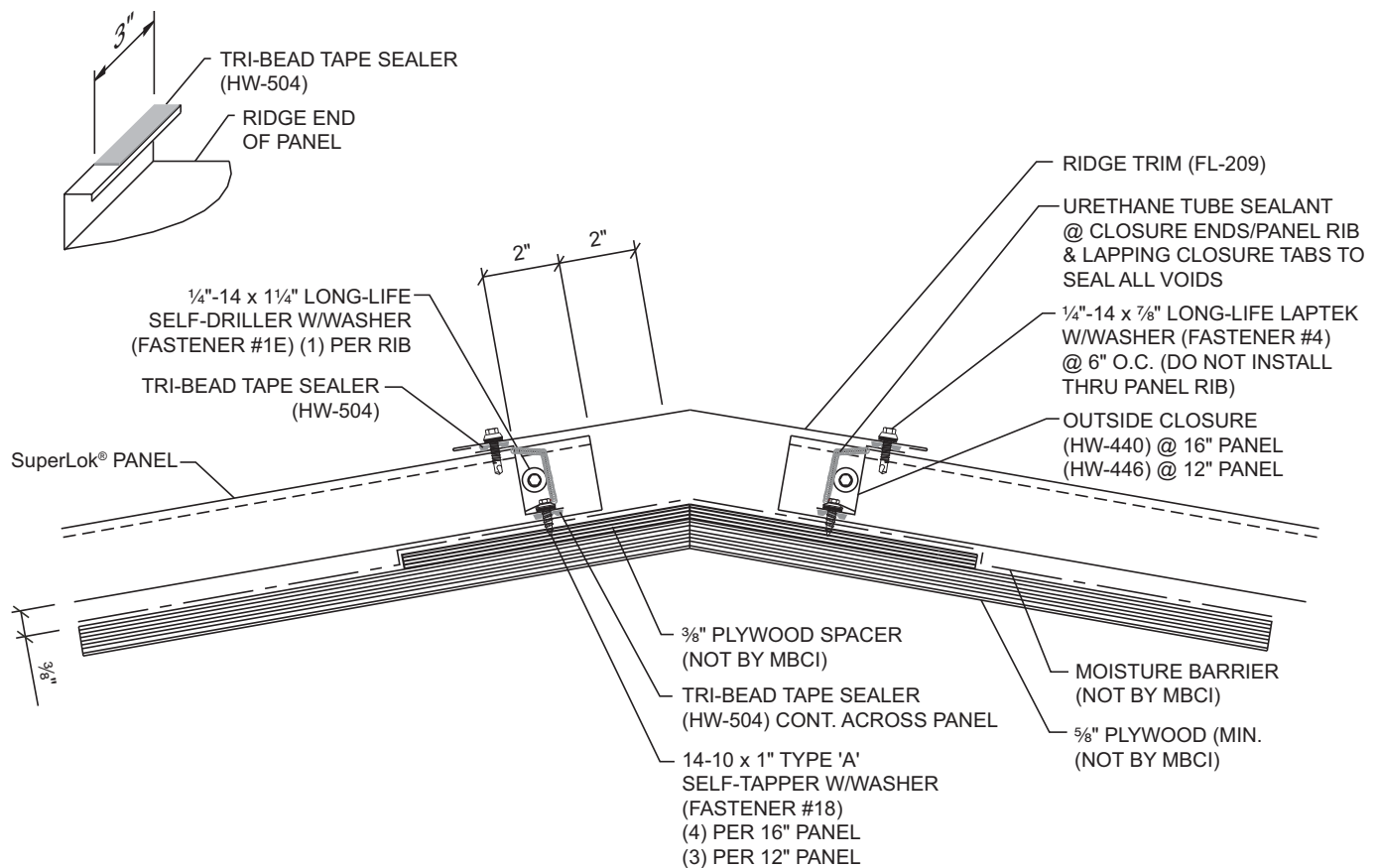


NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

SuperLok®

DETAILS

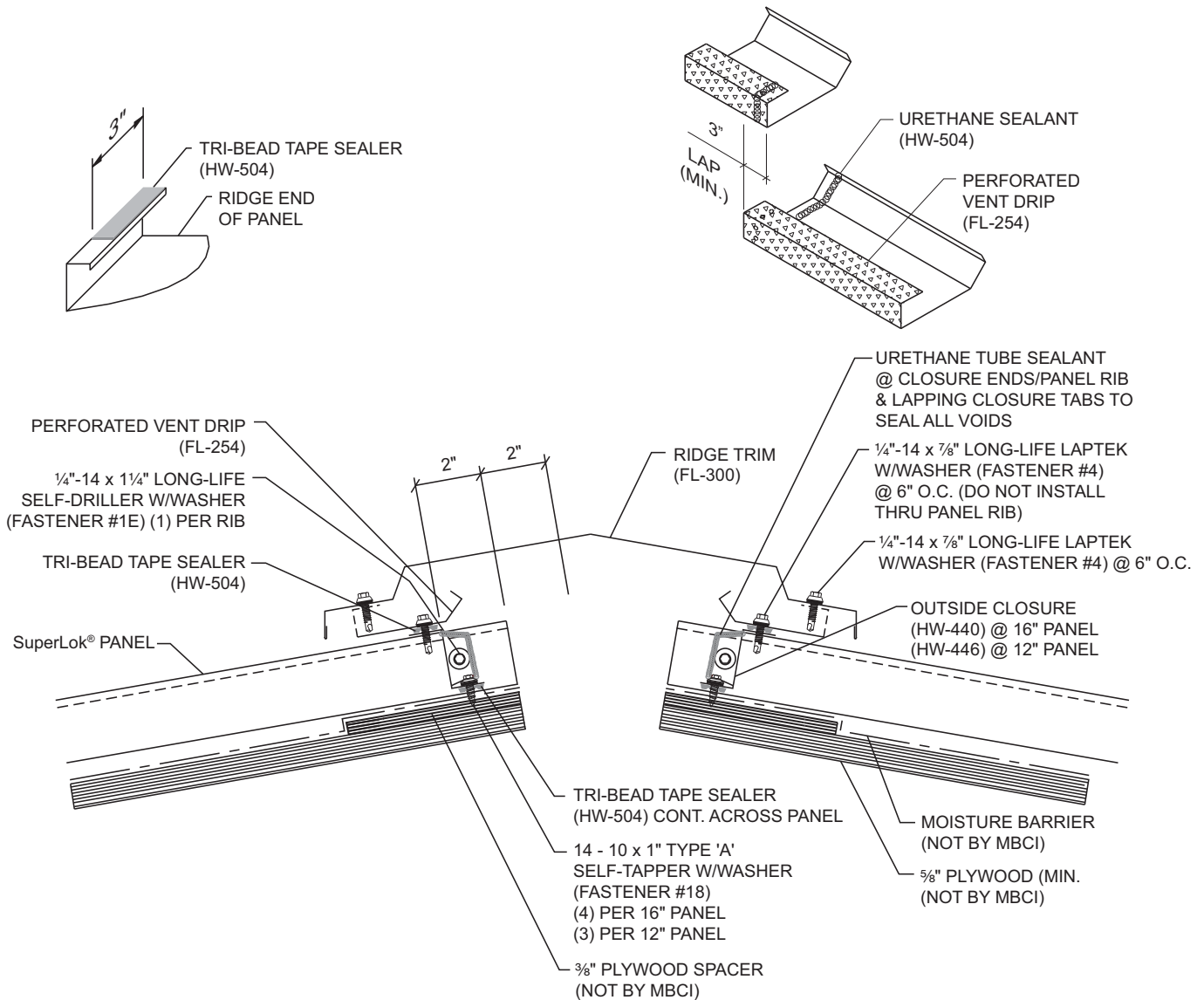
**WOOD DECK
FIXED RIDGE**



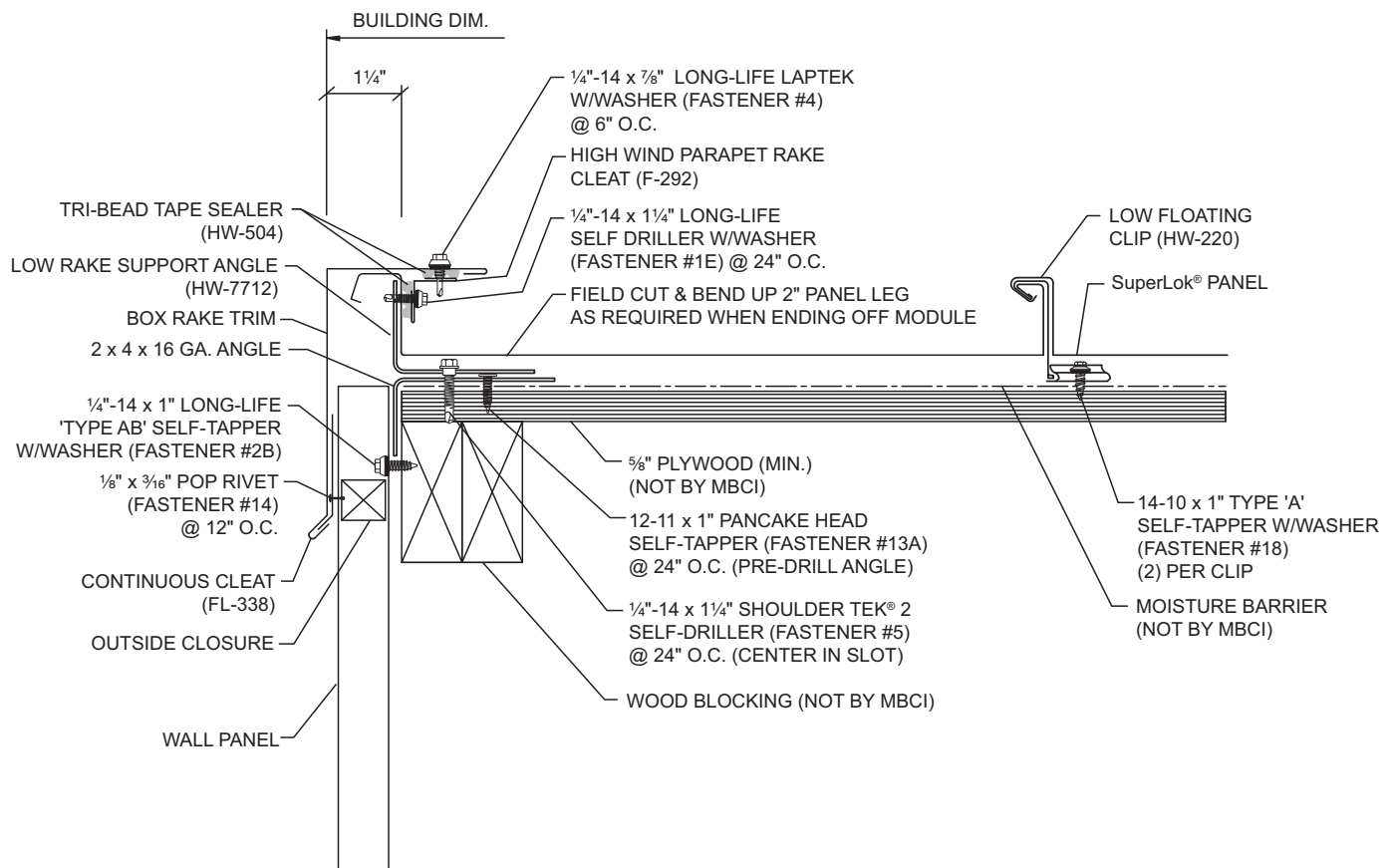
DETAILS

SuperLok®

WOOD DECK FIXED VENTED RIDGE



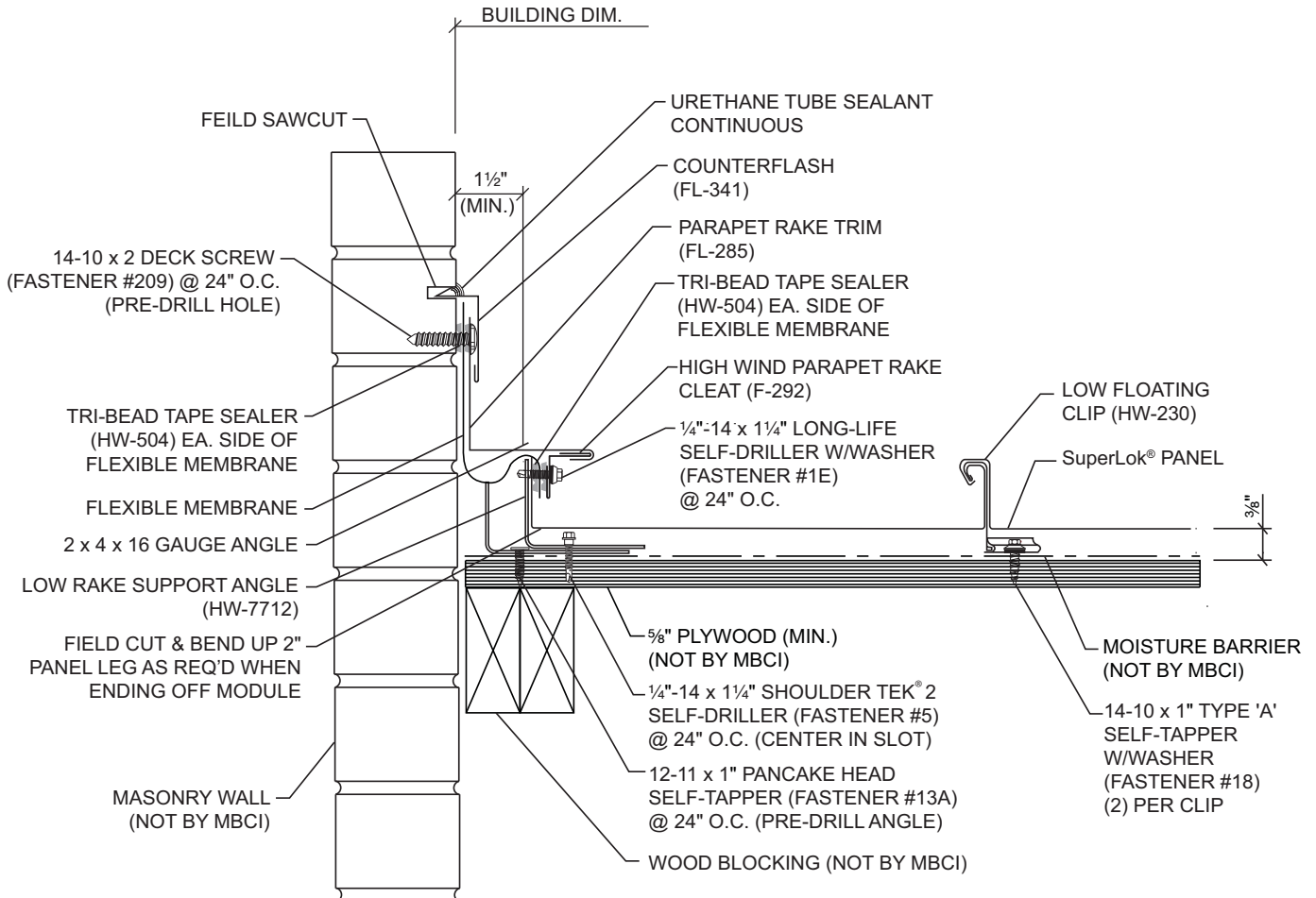
**WOOD DECK
BOX RAKE**



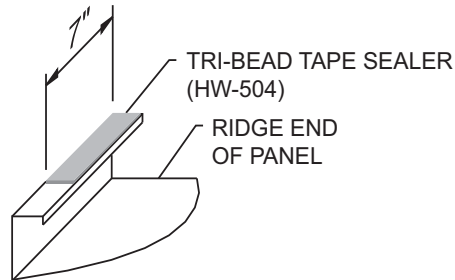
DETAILS

SuperLok®

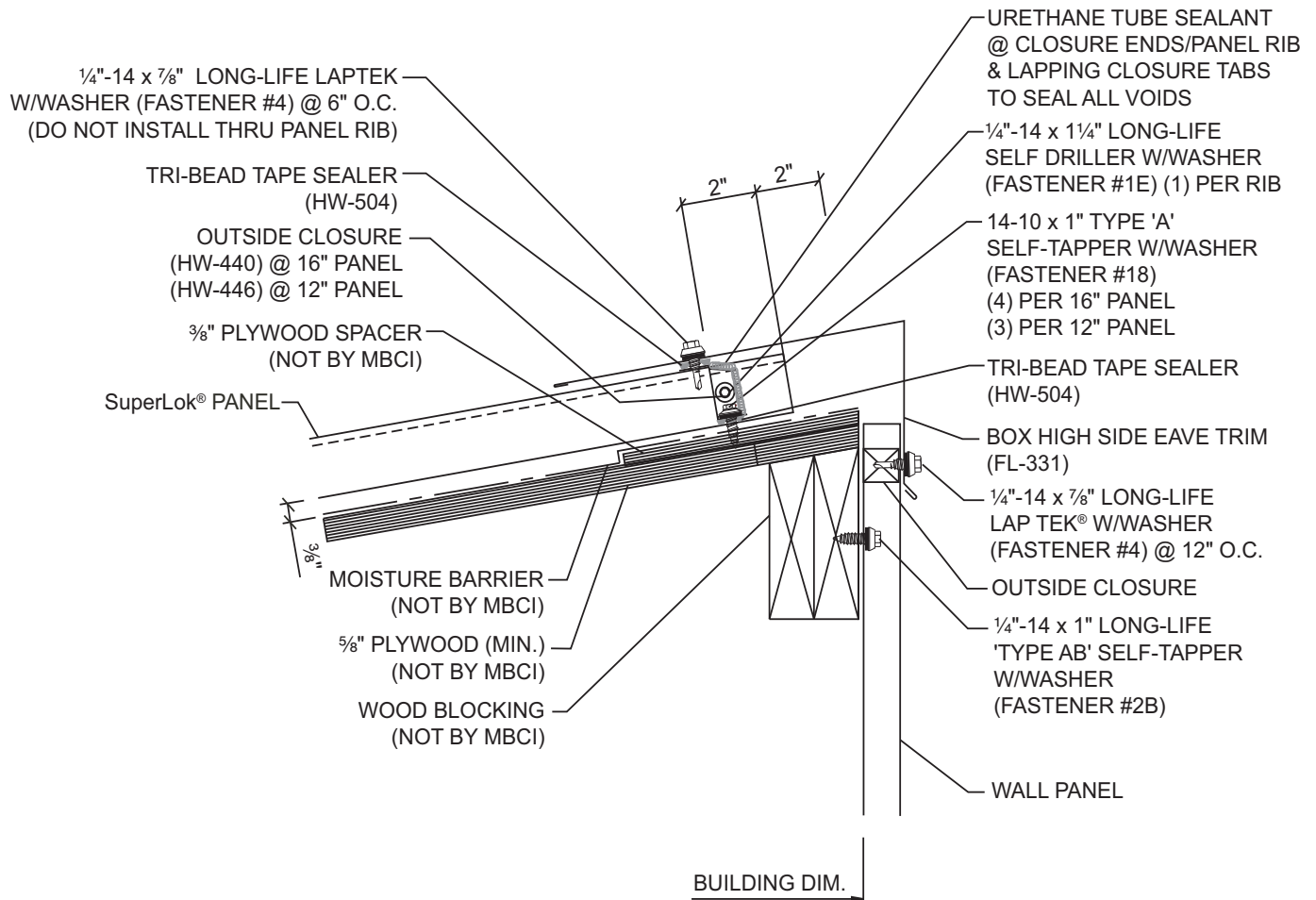
WOOD DECK PARAPET RAKE



**WOOD DECK
FIXED BOX HIGH SIDE EAVE**



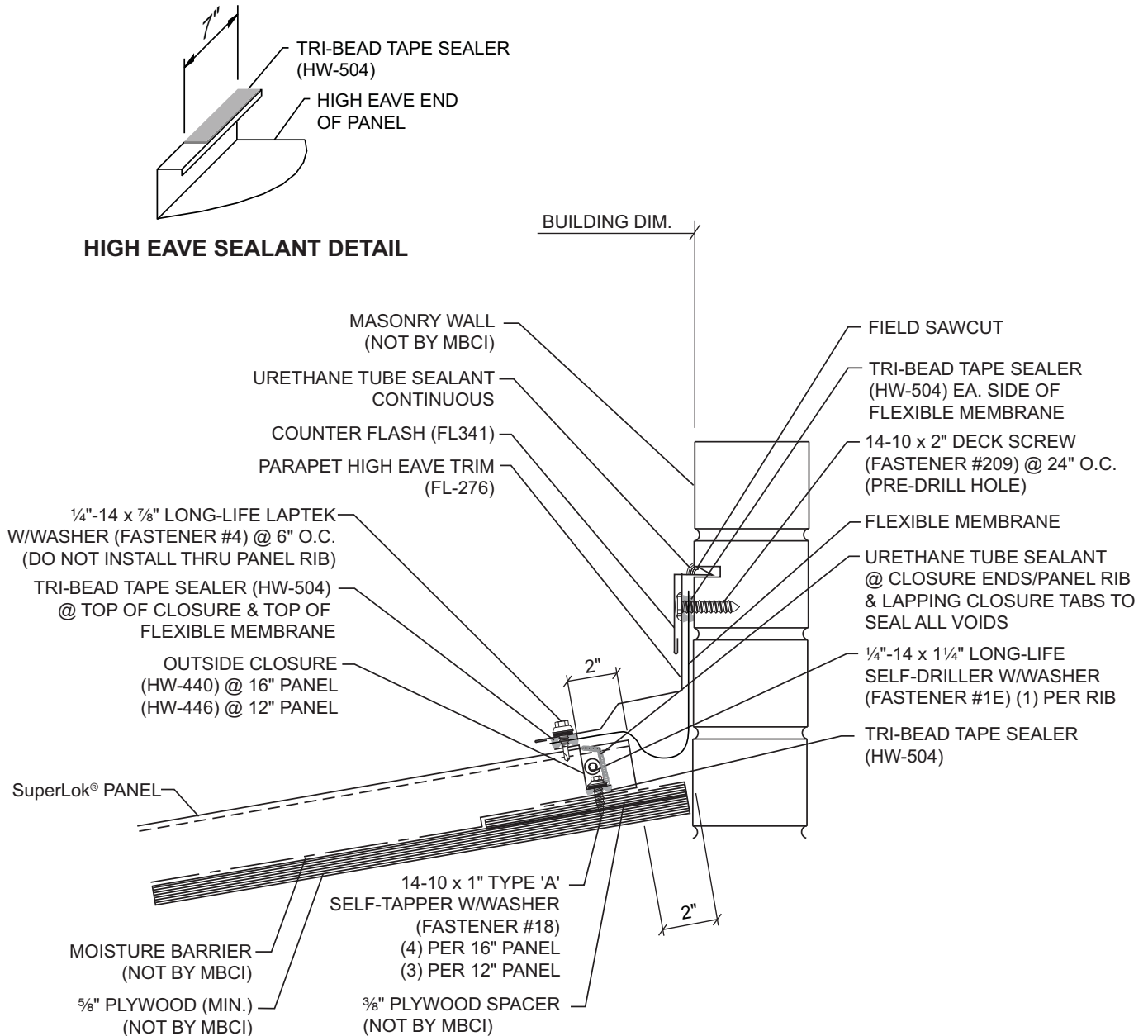
HIGH EAVE SEALANT DETAIL



DETAILS

SuperLok®

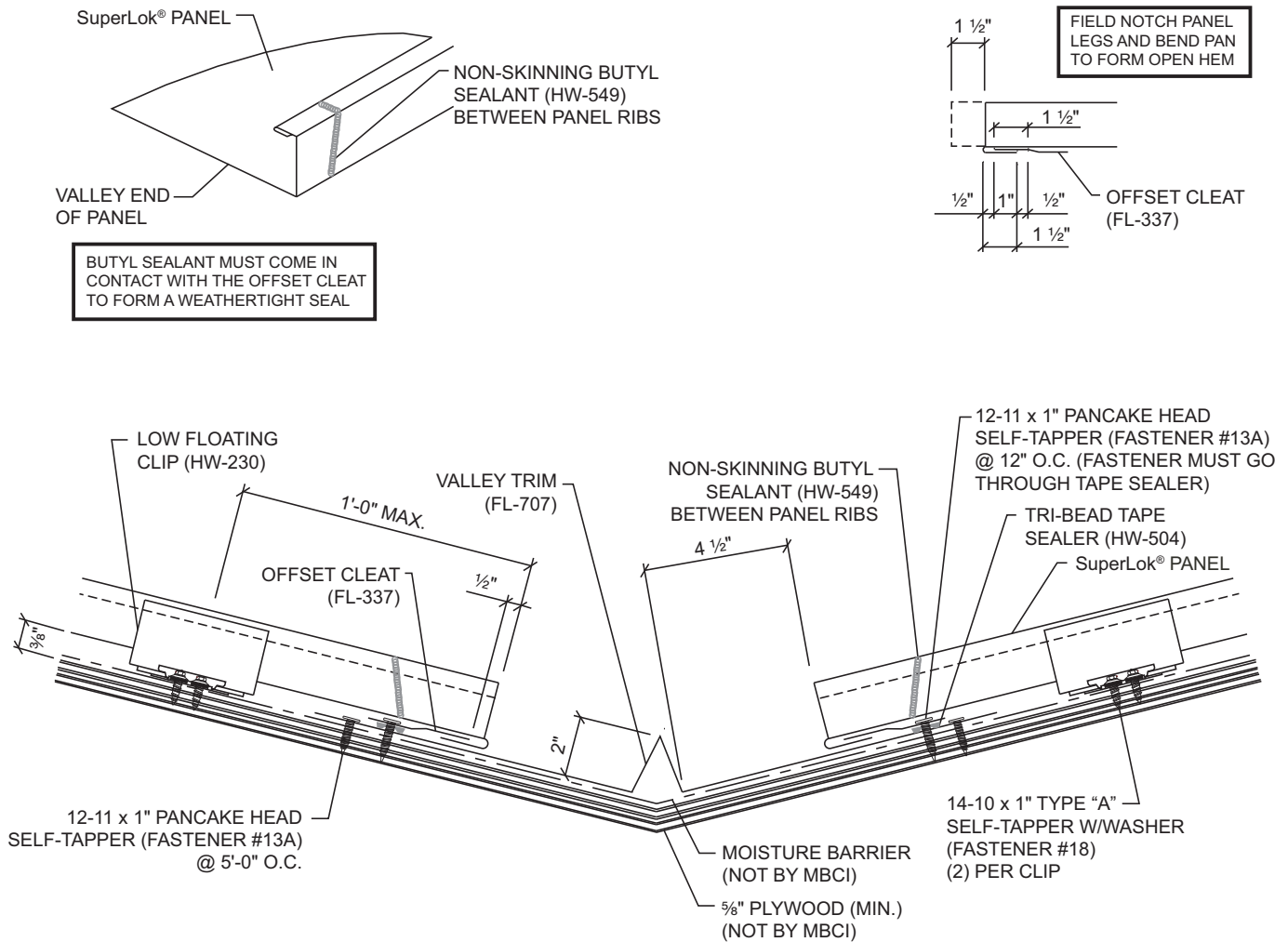
WOOD DECK PARAPET FIXED HIGH SIDE EAVE



SuperLok®

DETAILS

WOOD DECK FLOATING VALLEY

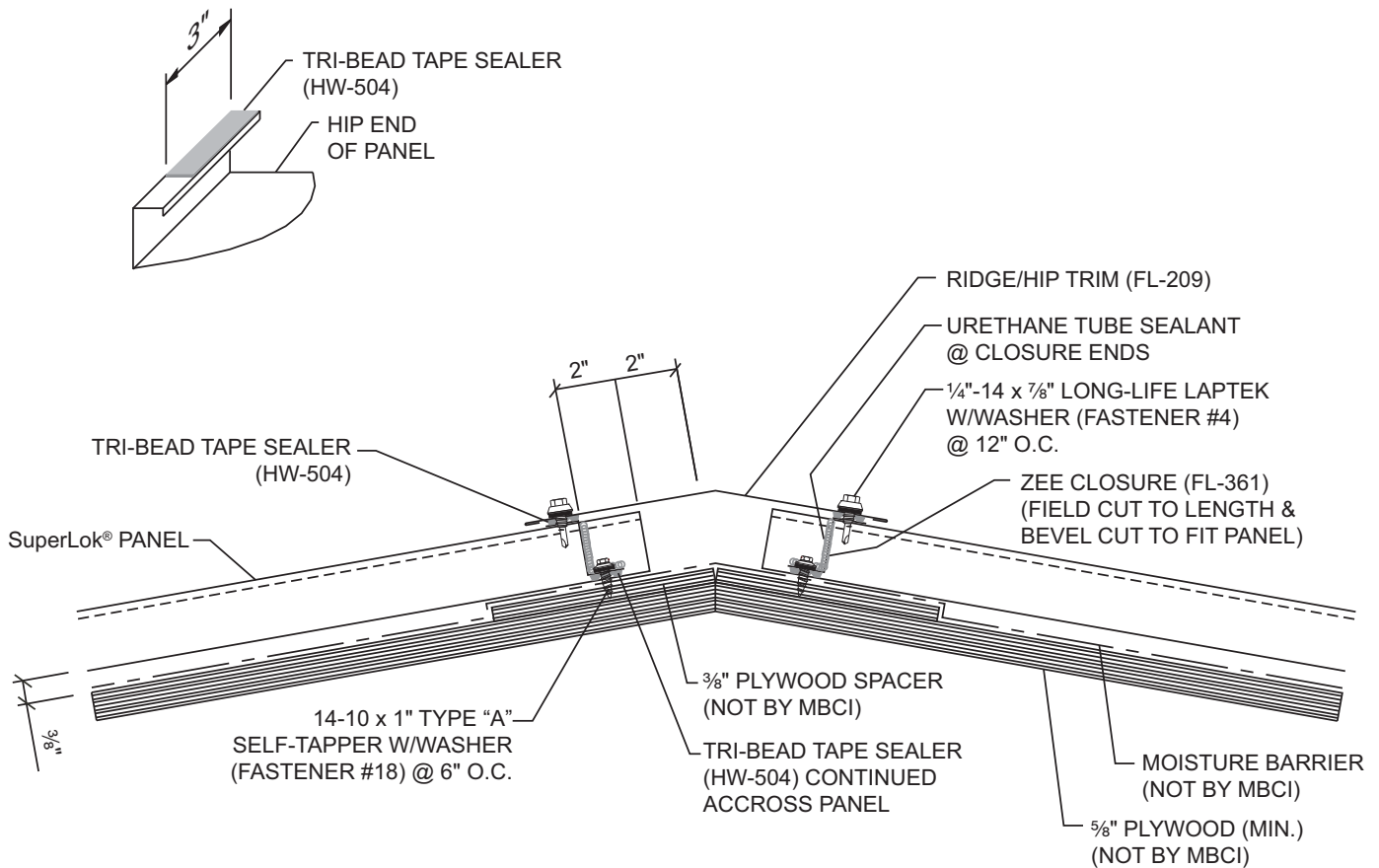


NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

DETAILS

SuperLok®

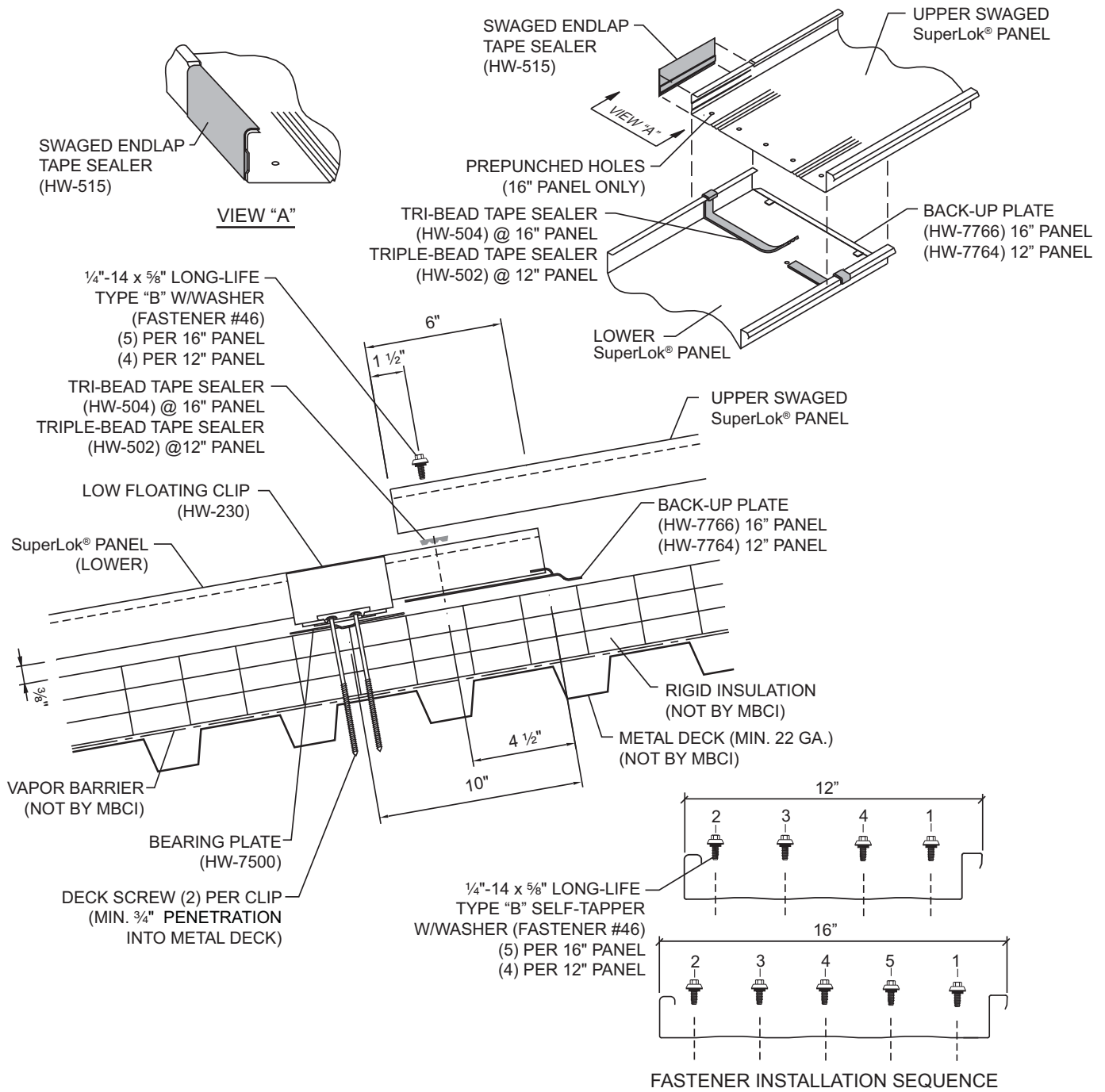
WOOD DECK FIXED HIP



SuperLok®

DETAILS

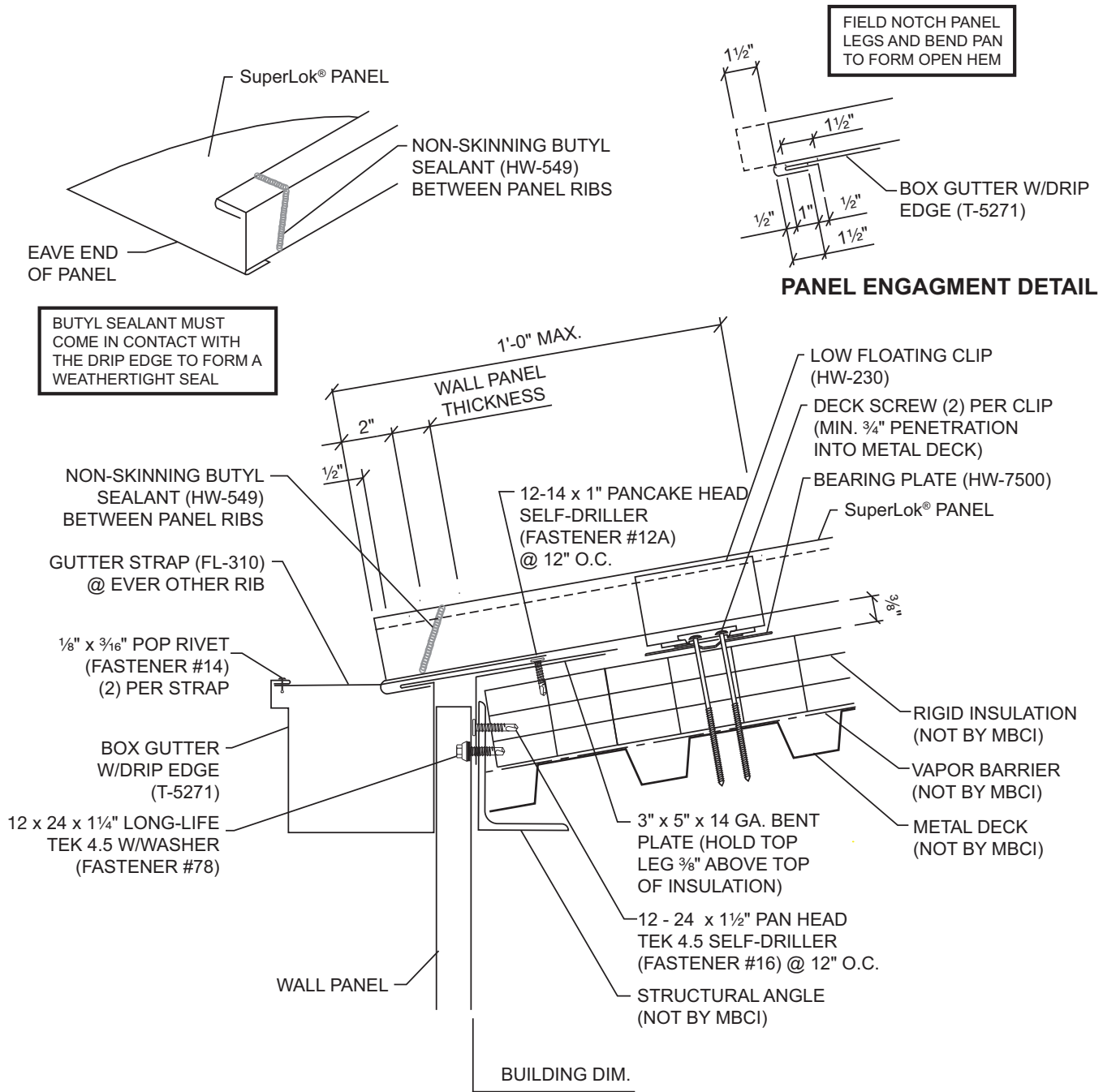
**RIGID INSULATION OVER METAL DECK
FLOATING ENDLAP**



DETAILS

SuperLok®

RIGID INSULATION OVER METAL DECK FLOATING EAVE WITH BOX GUTTER

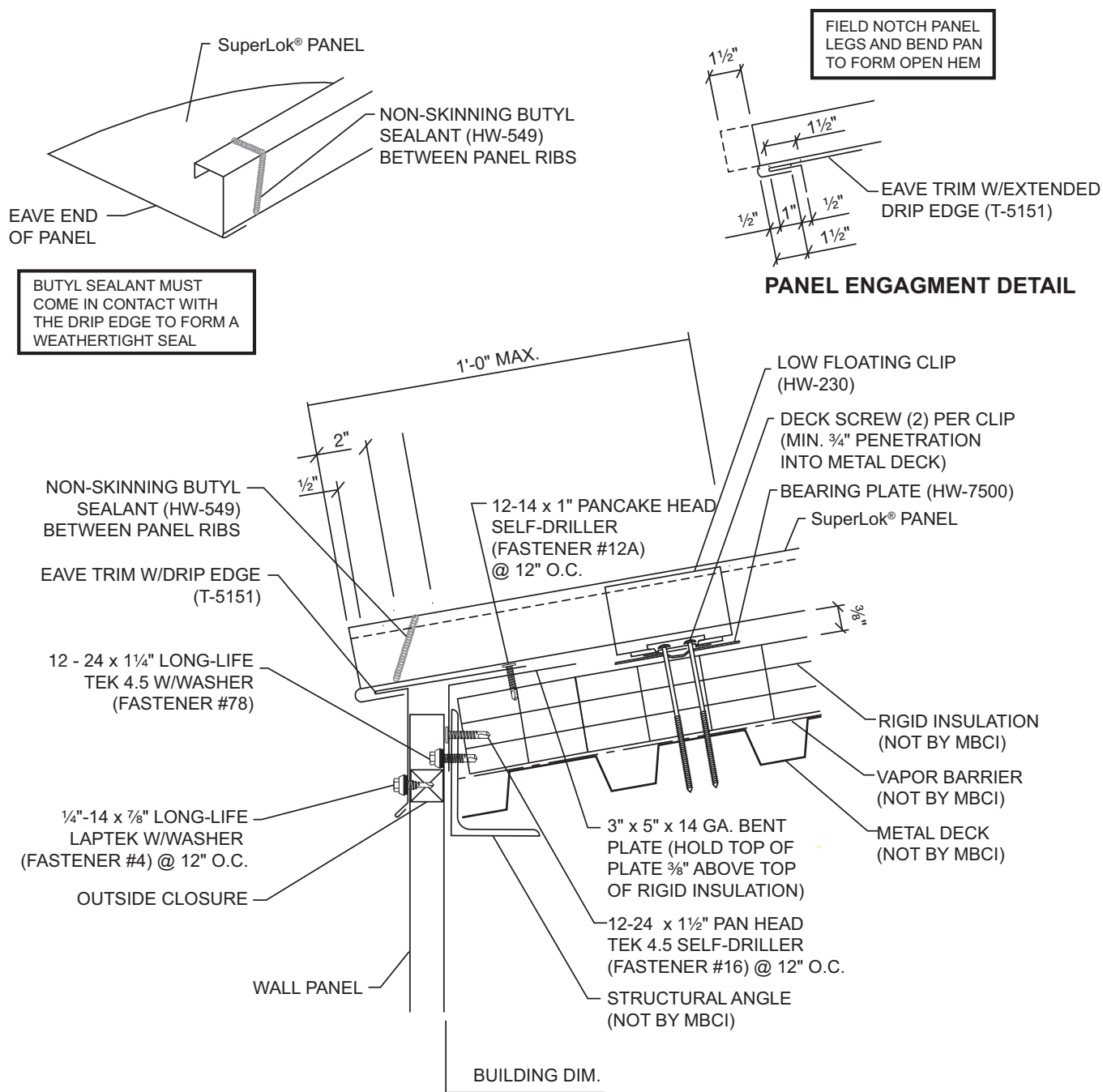


NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

SuperLok®

DETAILS

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

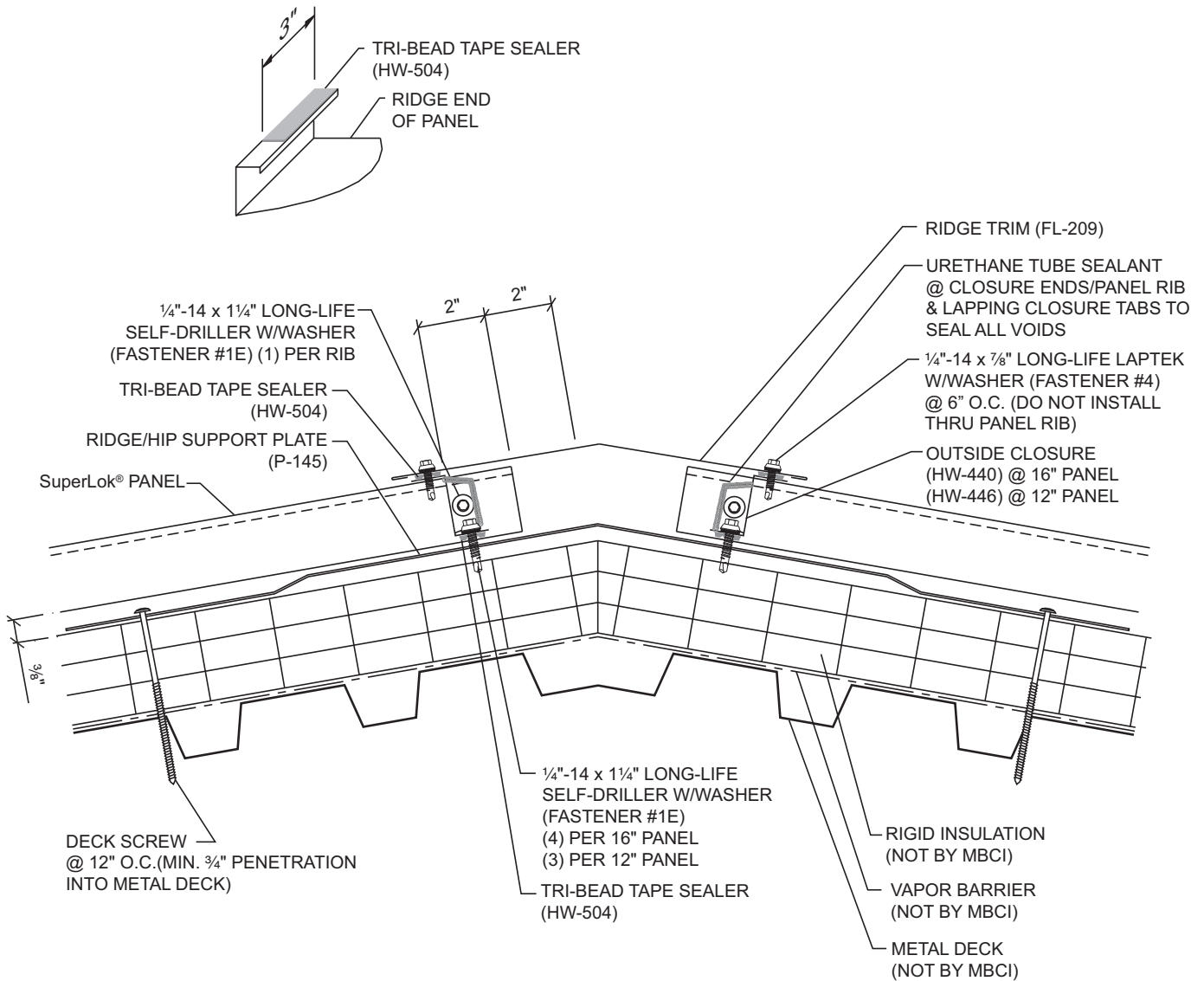


NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

DETAILS

SuperLok®

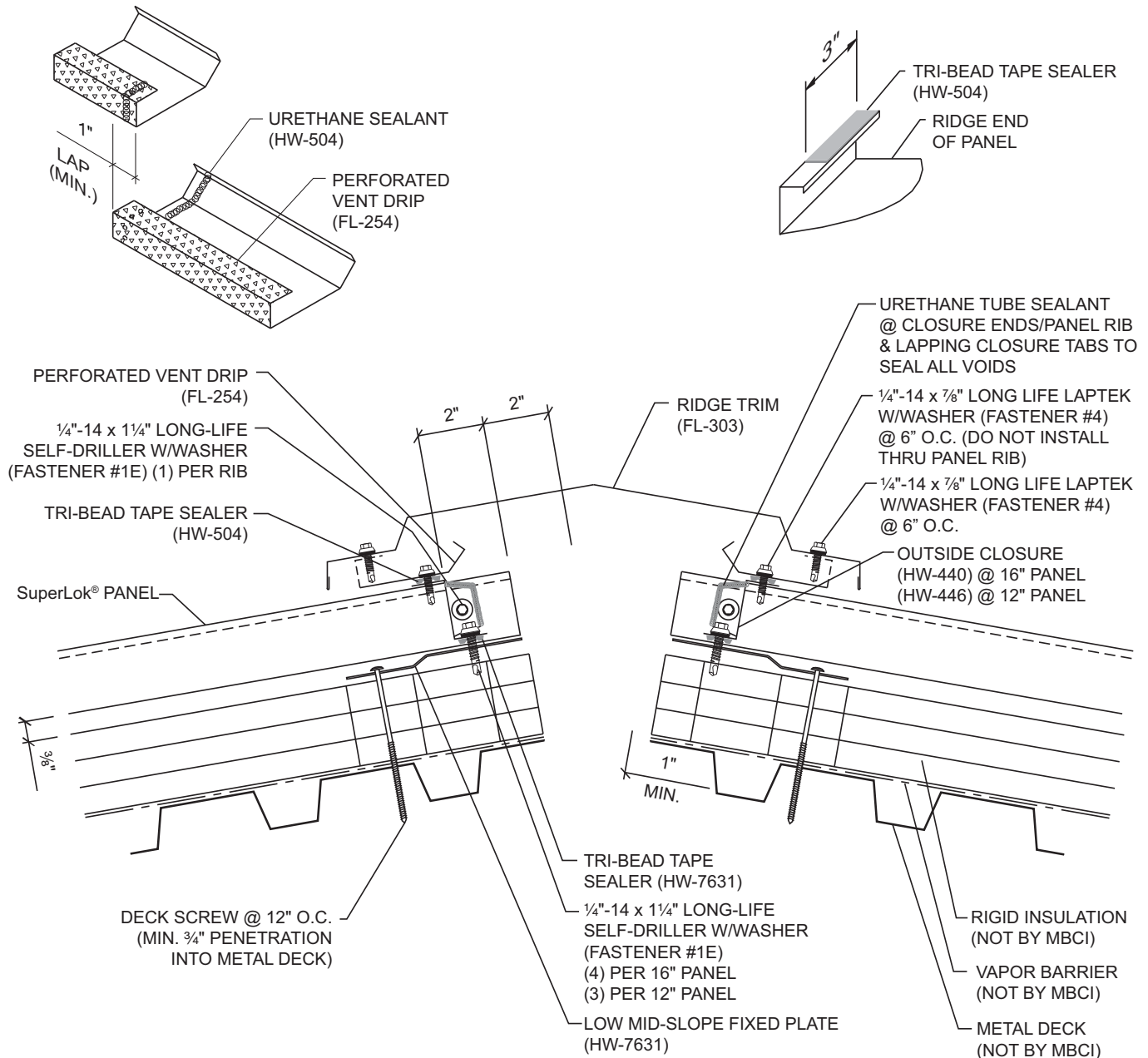
RIGID INSULATION OVER METAL DECK FIXED RIDGE



SuperLok®

DETAILS

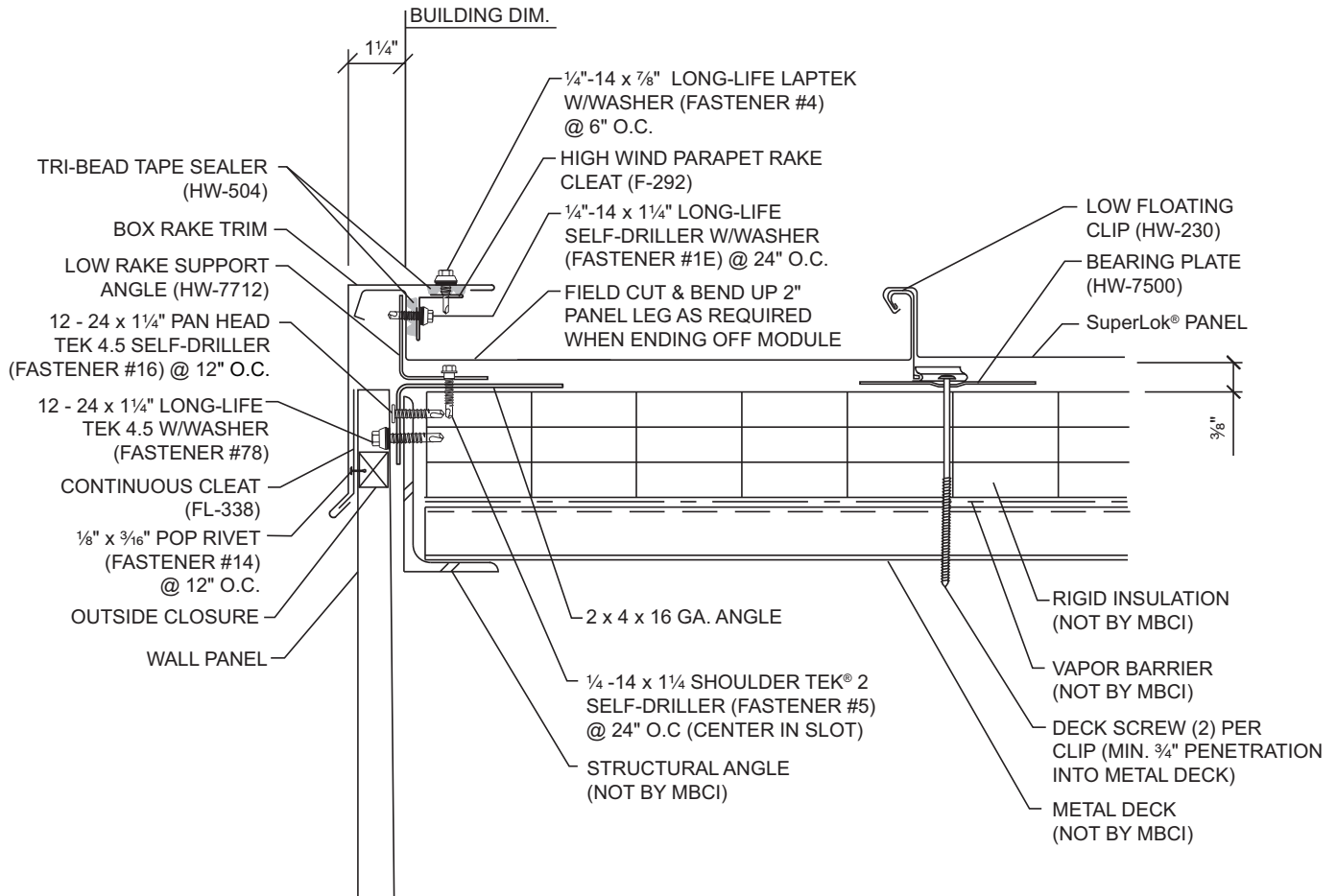
**RIGID INSULATION OVER METAL DECK
FIXED VENTED RIDGE**



SuperLok®

ARCHITECTURAL DETAILS

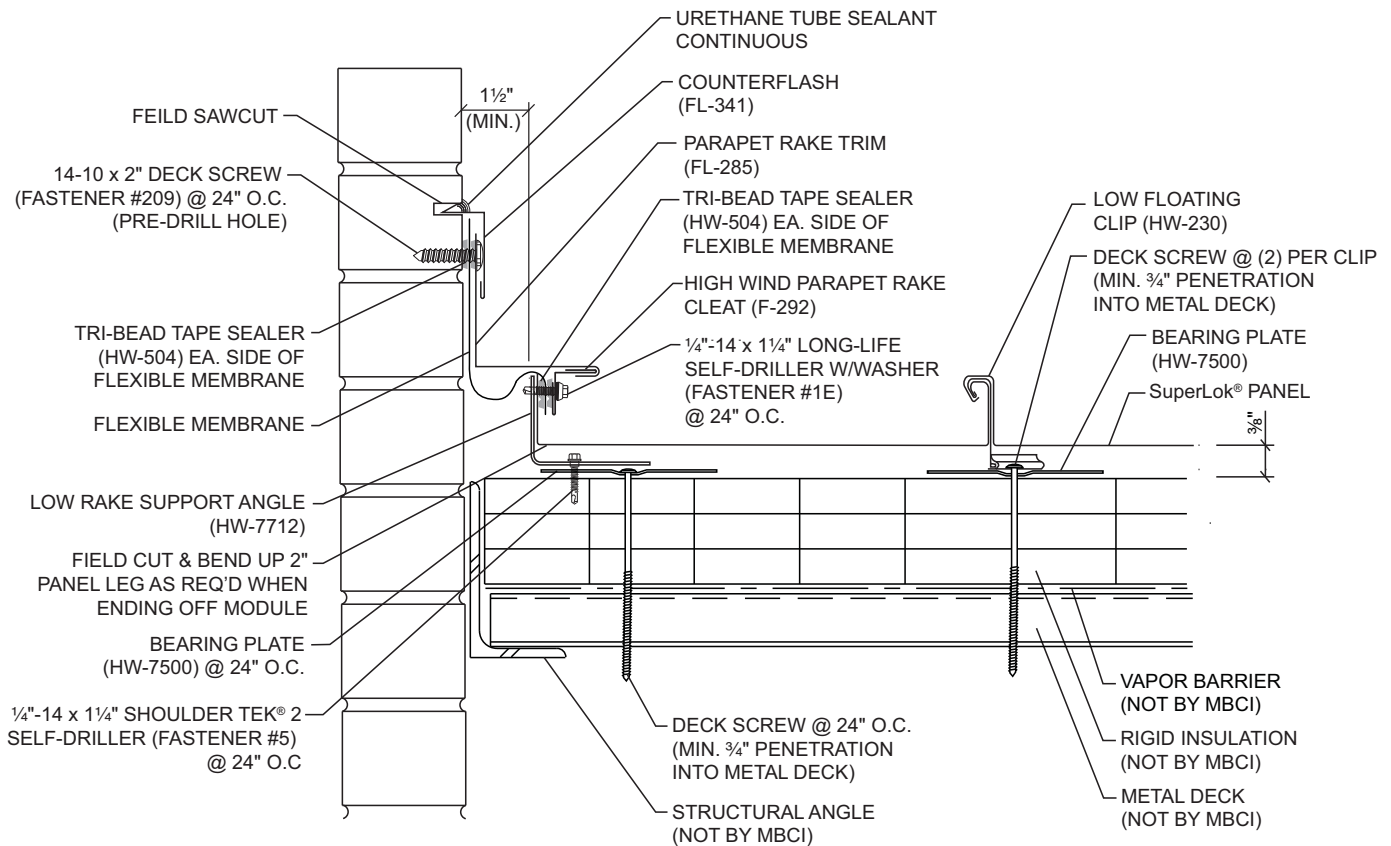
RIGID INSULATION OVER METAL DECK BOX RAKE



ARCHITECTURAL DETAILS

SuperLok®

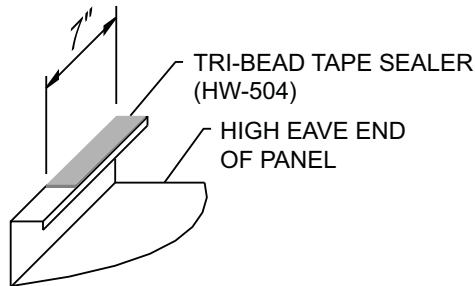
RIGID INSULATION OVER METAL DECK PARAPET RAKE



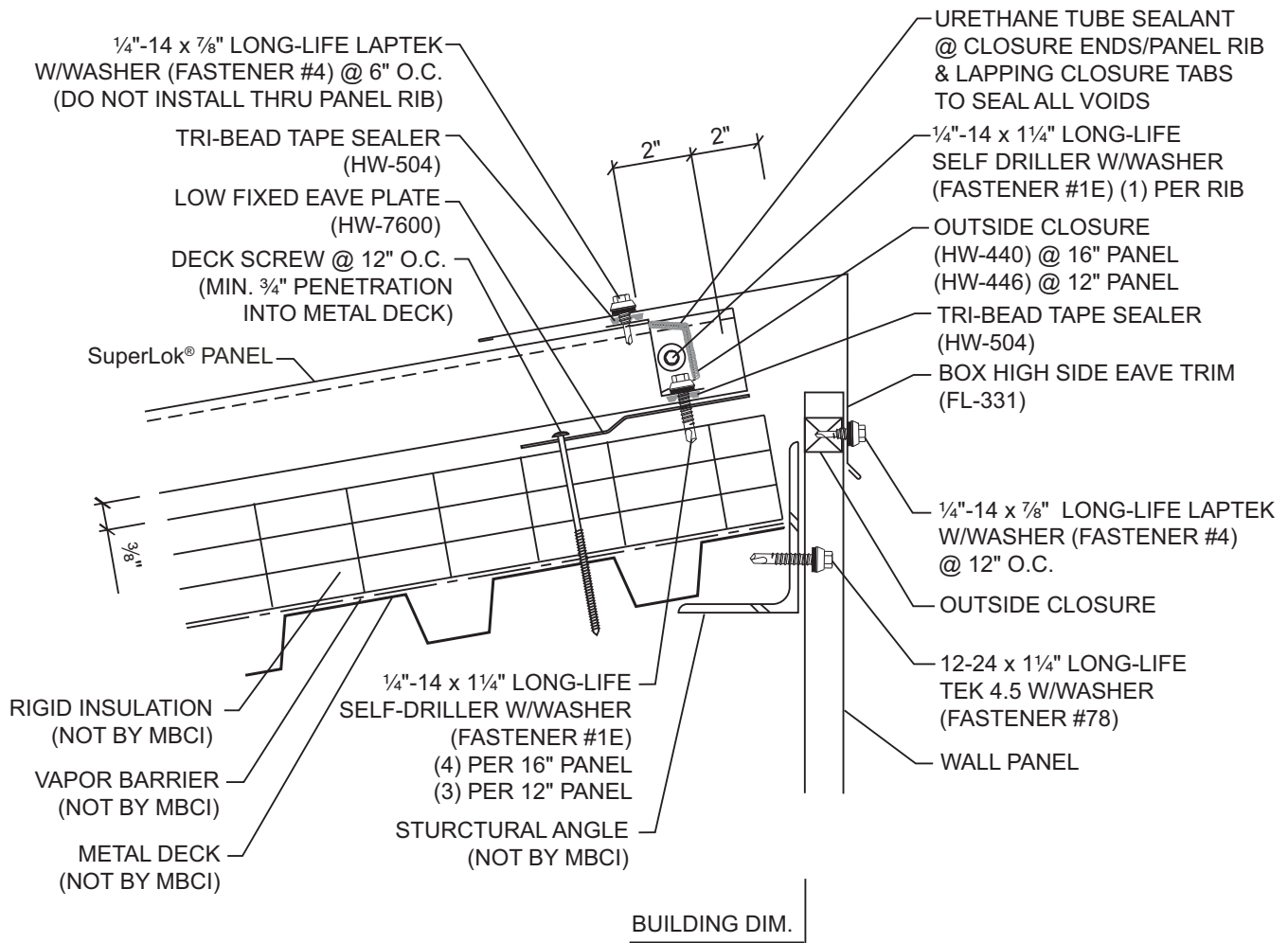
SuperLok®

ARCHITECTURAL DETAILS

RIGID INSULATION OVER METAL DECK FIXED BOX HIGH SIDE EAVE



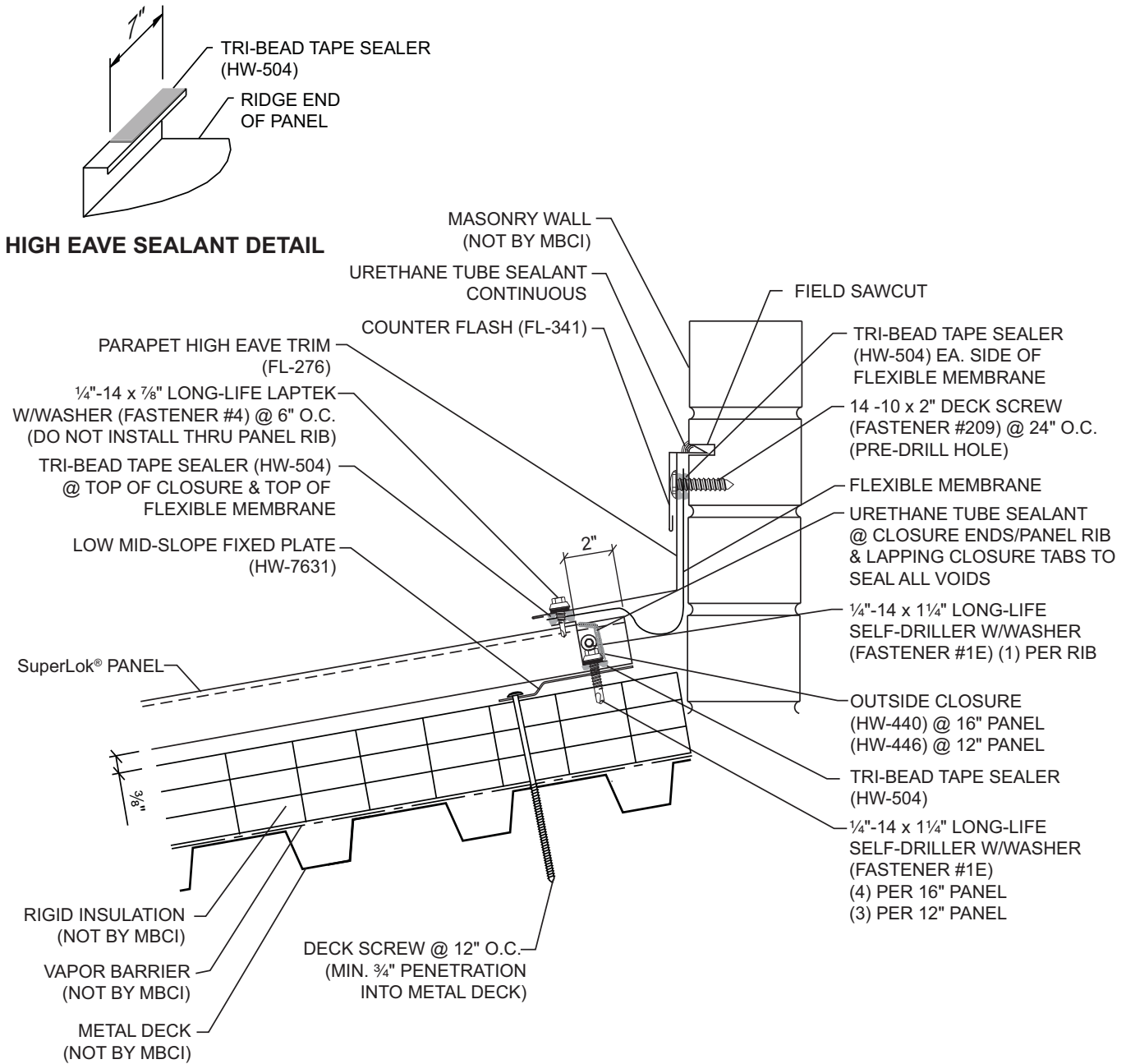
HIGH EAVE SEALANT DETAIL



ARCHITECTURAL DETAILS

SuperLok®

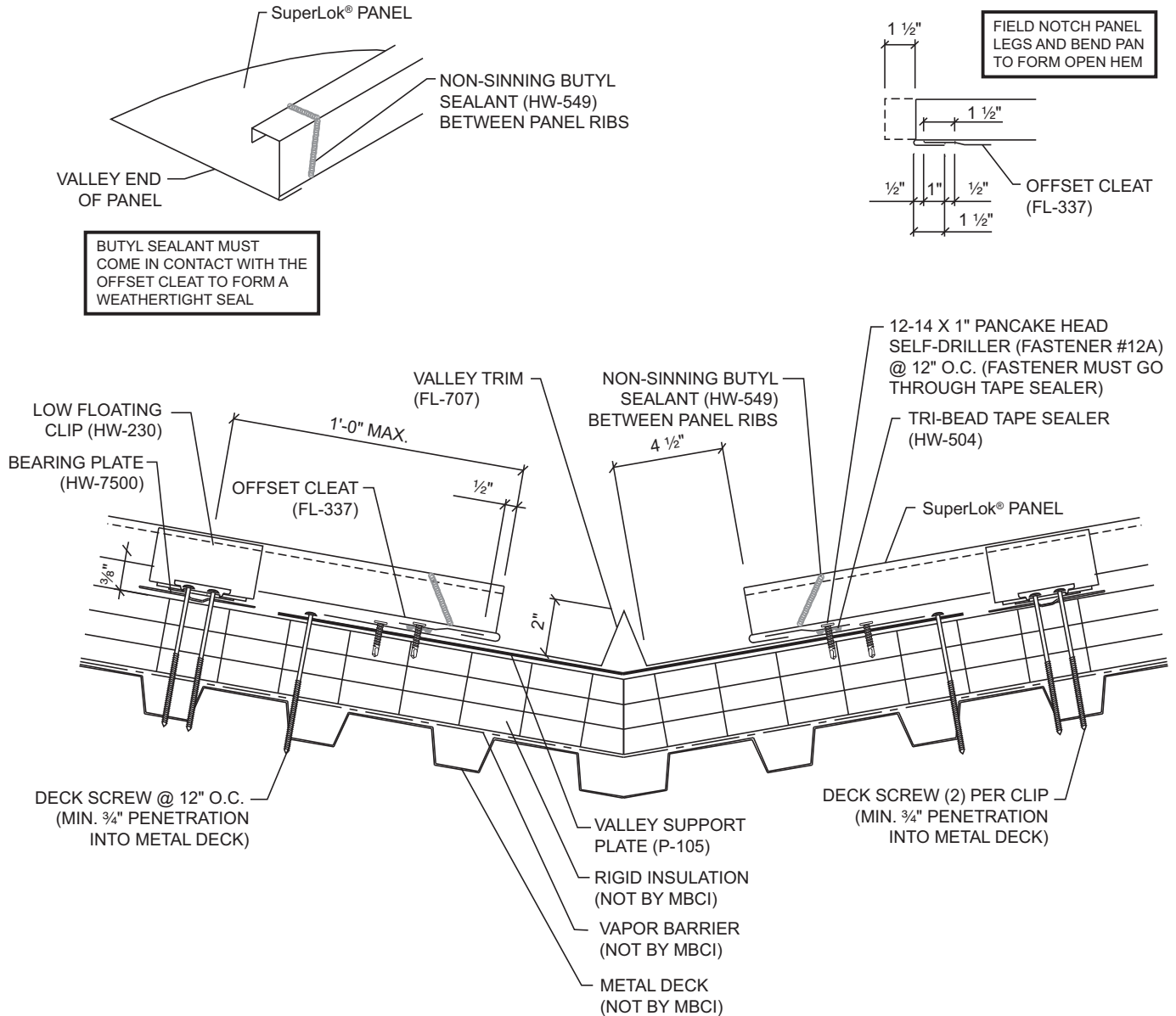
RIGID INSULATION OVER METAL DECK PARAPET FIXED HIGH SIDE EAVE



SuperLok®

ARCHITECTURAL DETAILS

RIGID INSULATION OVER METAL DECK FLOATING VALLEY

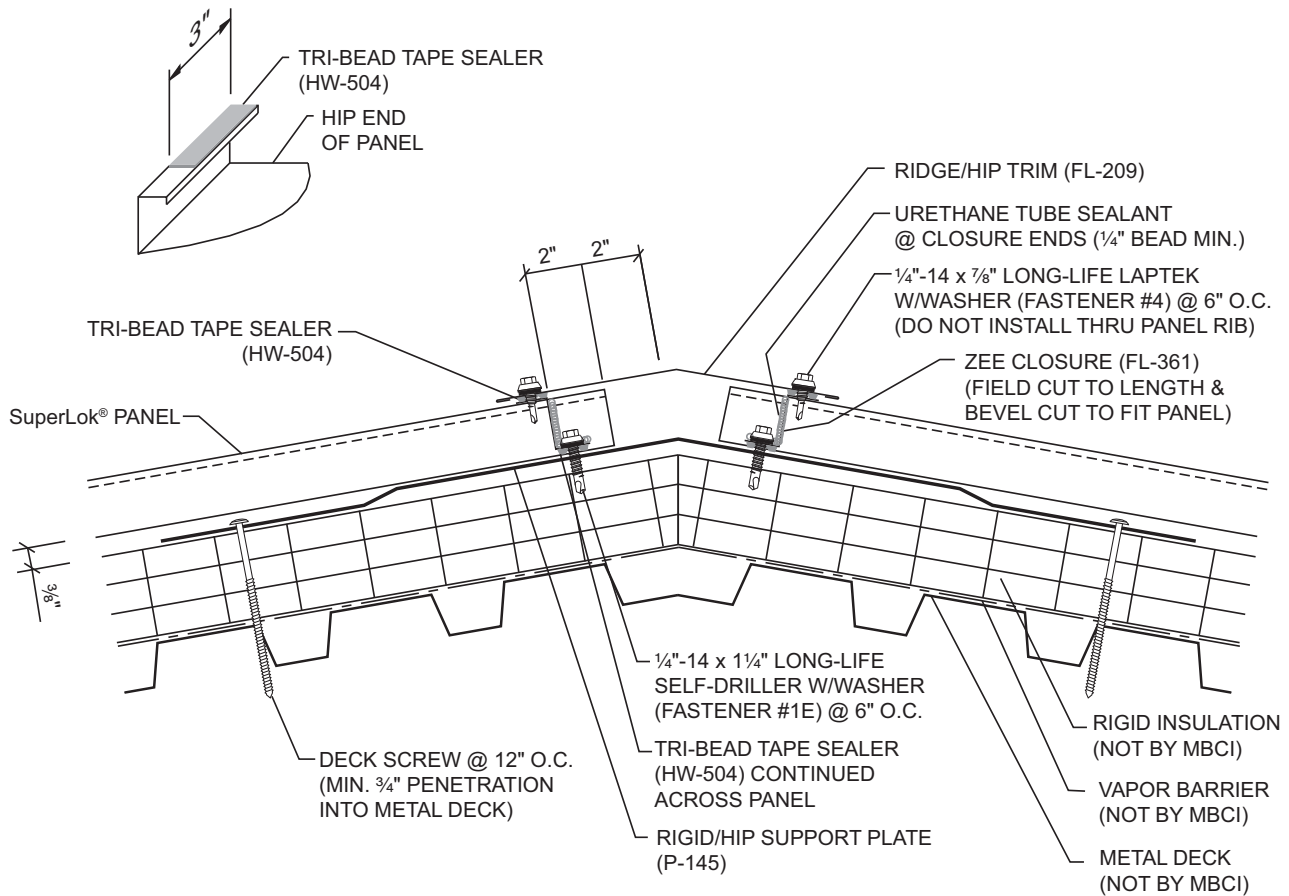


NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12

ARCHITECTURAL DETAILS

SuperLok®

RIGID INSULATION OVER METAL DECK FIXED HIP



SuperLok®

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 be 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.

GENERAL 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.

NOTES



Ceco Building Systems
an NCI Company

Eastern Region: PO Drawer 2387, 100 Red Iron Road, Rocky Mount, NC 27802 | 252-977-2131
Midwestern Region: PO Box 72, 305 N Iris St., Mt. Pleasant, IA 52641 | 319-385-8001
Southern Region: PO Drawer 911, 2400 Highway 45 North, Columbus, MS 39703 | 662-328-6722

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For current information, visit our Website at www.cecobuildings.com

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