SUPERLOK® HS
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 METL-SPAN 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

Metl-Span designs its standing seam roofs to meet the load requirements dictated by governing codes and project specifications, including applicable snow loads. However, Metl-Span 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 Metl-Span. Metl-Span 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 site 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, Metl-Span 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 metlspan.com. Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles. Projects should be designed to conform to applicable building codes, regulations and accepted industry practices. If there is a conflict between this manual and project erection drawings, the erection drawings will take precedence.
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<td>SL-36</td>
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GENERAL DESCRIPTION

Coverage Width - 16" or 12"
Minimum Slope - 1/2:12
Panel Attachment - Low, High (Fixed or Floating) or Utility (No insulation clearance)
Panel Substrate - Galvalume® (standard)
Gauge - Standard: 24 ; Optional: 22
Finishes - Smooth Striated (standard)* or Embossed Striated
Coatings - Signature® 200, Signature® 300, Signature® 300 Metallic

PRODUCT SELECTION CHART

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Signature® 300 Metallic</th>
<th>Signature® 300</th>
<th>Signature® 200</th>
<th>Galvalume Plus®</th>
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<tr>
<td>SuperLok® HS</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>16&quot; Wide</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>12&quot; Wide</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
</tbody>
</table>

Signature is a registered trademark of the Cornerstone Building Brands family. 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.
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 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', ¾" 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. 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**

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.
IMPORTANT
READ THIS FIRST

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

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

High Floating System - With ³⁄₄”, 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.

<table>
<thead>
<tr>
<th>Insulation Thickness</th>
<th>Low System</th>
<th>High System</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Insulation</td>
<td>³⁄₈” Thermal Spacer</td>
<td>High System Not Recommended</td>
</tr>
<tr>
<td>3” Insulation</td>
<td>Thermal Spacer Not Recommended</td>
<td>³⁄₈” Thermal Spacer</td>
</tr>
<tr>
<td>4” Insulation</td>
<td>Thermal Spacer Not Recommended</td>
<td>Thermal Spacer Not Recommended</td>
</tr>
<tr>
<td>6” Insulation</td>
<td>Low System Not Recommended</td>
<td>Thermal Spacer Not Recommended</td>
</tr>
</tbody>
</table>

Warning
As with all standing seam roof systems, sound attenuation (example: blanket insulation) should be installed between the panels and open framing, such as purlins or joists, to prevent “roof rumble” during windy conditions.

Applications over solid deck such as rigid insulation over a metal deck or a wood deck may require additional acoustical consideration to ensure that thermal vibration noises are isolated from the building interior. This is especially important if the bottom of the deck is left open to the interior, in cathedral ceiling applications or when the attic space is used as a return air plenum.

A vapor retarder may be necessary to protect roofing components when high 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) a project where outside winter temperatures below 40 degrees 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, masonry or plaster work and fuel burning heaters.

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.

A vapor retarder may be necessary to protect roofing components when high 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) a project where outside winter temperatures below 40 degrees 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, masonry or plaster work and fuel burning heaters.

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### UNDERWriters LABORATORIES APPROVAL

**SuperLok®**

<table>
<thead>
<tr>
<th>Construction Number</th>
<th>Panel Width (In.)</th>
<th>Gauge</th>
<th>Clip Type</th>
<th>Clip Spacing</th>
<th>Substrate</th>
<th>UL-2218 Impact Resistance</th>
<th>UL-263 Fire Rating</th>
<th>UL-580 Rating</th>
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<tbody>
<tr>
<td>90</td>
<td>16&quot;</td>
<td>24 min.</td>
<td>*</td>
<td>5'-0 ½&quot;</td>
<td>Open Framing</td>
<td>Class 4</td>
<td>Class A</td>
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<td>176</td>
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<td>N/A</td>
<td>5'-0 ¼&quot;</td>
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<td>Class A</td>
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<td>180</td>
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<td>Class 90</td>
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<td>Class 90</td>
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<td>Class A</td>
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<tr>
<td>451</td>
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<td>24 min.</td>
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<td>2'-0&quot;</td>
<td>Composite System</td>
<td>Class 4</td>
<td>Class A</td>
<td>Class 90</td>
</tr>
<tr>
<td>452</td>
<td>16&quot;</td>
<td>24 min.</td>
<td>*</td>
<td>2'-0&quot;</td>
<td>Composite System</td>
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<td>Class A</td>
<td>Class 90</td>
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<td>487</td>
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<td>Class A</td>
<td>Class 90</td>
</tr>
</tbody>
</table>

* 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.
5. **SuperLok®** panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

### FACTORY MUTUAL APPROVAL

**SuperLok®**

<table>
<thead>
<tr>
<th>Panel Width</th>
<th>Gauge</th>
<th>Clip Type</th>
<th>Clip Spacing</th>
<th>Hail Damage Rating</th>
<th>ASTM E108 Fire Rating</th>
<th>FM Windstorm Rating</th>
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<tbody>
<tr>
<td>16</td>
<td>24</td>
<td>Floating</td>
<td>4'-0&quot;</td>
<td>Class 1-SH</td>
<td>Class A</td>
<td>Class 1-90</td>
</tr>
<tr>
<td>16</td>
<td>22</td>
<td>Floating</td>
<td>5'-0&quot;</td>
<td>Class 1-SH</td>
<td>Class A</td>
<td>Class 1-105</td>
</tr>
<tr>
<td>16</td>
<td>22</td>
<td>Floating</td>
<td>4'-0&quot;</td>
<td>Class 1-SH</td>
<td>Class A</td>
<td>Class 1-135</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Tests procedures are in accordance with Factory Mutual Research Corportion (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 Metl-Span for more information.

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**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).
### SECTION PROPERTIES

#### NEGATIVE BENDING

<table>
<thead>
<tr>
<th>PANEL GAUGE</th>
<th>Fy (KSI)</th>
<th>WEIGHT (PSF)</th>
<th>Ixe (IN.4/FT.)</th>
<th>Sxe (IN.3/FT.)</th>
<th>Maxo (KIP-IN.)</th>
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<tbody>
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<tr>
<td>22</td>
<td>50</td>
<td>1.83</td>
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#### POSITIVE BENDING

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<th>PANEL GAUGE</th>
<th>Fy (KSI)</th>
<th>WEIGHT (PSF)</th>
<th>Ixe (IN.4/FT.)</th>
<th>Sxe (IN.3/FT.)</th>
<th>Maxo (KIP-IN.)</th>
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</thead>
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</table>

#### NOTES:

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3. Sxe is for bending.
4. Maxo is allowable bending moment.
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**ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT**

**24 Gauge (Fy = 50 KSI)**

<table>
<thead>
<tr>
<th>SPAN TYPE</th>
<th>LOAD TYPE</th>
<th>SPAN IN FEET</th>
<th>2.5</th>
<th>3.0</th>
<th>3.5</th>
<th>4.0</th>
<th>4.5</th>
<th>5.0</th>
<th>5.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>LIVE</td>
<td></td>
<td>216.0</td>
<td>180.0</td>
<td>154.3</td>
<td>127.9</td>
<td>101.0</td>
<td>81.8</td>
<td>67.6</td>
</tr>
<tr>
<td>2-SPAN</td>
<td>LIVE</td>
<td></td>
<td>216.0</td>
<td>157.8</td>
<td>116.0</td>
<td>88.8</td>
<td>70.1</td>
<td>56.8</td>
<td>47.0</td>
</tr>
<tr>
<td>3-SPAN</td>
<td>LIVE</td>
<td></td>
<td>216.0</td>
<td>180.0</td>
<td>144.9</td>
<td>111.0</td>
<td>87.7</td>
<td>71.0</td>
<td>58.7</td>
</tr>
<tr>
<td>4-SPAN</td>
<td>LIVE</td>
<td></td>
<td>216.0</td>
<td>180.0</td>
<td>135.3</td>
<td>103.6</td>
<td>81.9</td>
<td>66.3</td>
<td>54.8</td>
</tr>
</tbody>
</table>

**22 Gauge (Fy = 50 KSI)**

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

**NOTES:**

1. **THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.**
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.
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# SuperLok® Panel

## Section Properties

<table>
<thead>
<tr>
<th>PANEL</th>
<th>Fy (KSI)</th>
<th>WEIGHT (PSF)</th>
<th>Negative Bending</th>
<th>Positive Bending</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAUGE</td>
<td></td>
<td></td>
<td>Ixe (IN.4/FT.)</td>
<td>Sxe (IN.3/FT.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Maxo (KIP-IN.)</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>50</td>
<td>1.38</td>
<td>0.0574</td>
<td>0.0538</td>
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<td></td>
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<td>1.6096</td>
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<td>22</td>
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<td>0.0794</td>
<td>0.0776</td>
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<td></td>
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<td>2.325</td>
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</table>

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ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

### 24 Gauge (Fy = 50 KSI)

<table>
<thead>
<tr>
<th>SPAN TYPE</th>
<th>LOAD TYPE</th>
<th>SPAN IN FEET</th>
<th>2.5</th>
<th>3.0</th>
<th>3.5</th>
<th>4.0</th>
<th>4.5</th>
<th>5.0</th>
<th>5.5</th>
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</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>LIVE</td>
<td></td>
<td>162.0</td>
<td>135.0</td>
<td>115.7</td>
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<td>76.8</td>
<td>62.2</td>
<td>51.4</td>
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<tr>
<td>2-SPAN</td>
<td>LIVE</td>
<td></td>
<td>162.0</td>
<td>119.2</td>
<td>87.6</td>
<td>67.1</td>
<td>53.0</td>
<td>42.9</td>
<td>35.5</td>
</tr>
<tr>
<td>3-SPAN</td>
<td>LIVE</td>
<td></td>
<td>162.0</td>
<td>135.0</td>
<td>109.5</td>
<td>83.8</td>
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<td>44.3</td>
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<tr>
<td>4-SPAN</td>
<td>LIVE</td>
<td></td>
<td>162.0</td>
<td>135.0</td>
<td>102.2</td>
<td>78.3</td>
<td>61.8</td>
<td>50.1</td>
<td>41.4</td>
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### 22 Gauge (Fy = 50 KSI)

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

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**PRODUCT CHECKLIST**

**SuperLok® Panel**
- High – For use with or without \( \frac{3}{8} \)", \( \frac{5}{8} \)" or 1" thermal spacer.

**Clip, Floating**
- Low – For use with or without \( \frac{3}{8} \)" thermal spacer.
- High – For use with \( \frac{3}{8} \), \( \frac{5}{8} \)" or 1" thermal spacer.

**Clip, Fixed**
- Low – For use with or without \( \frac{3}{8} \)" thermal spacer

**Back-Up Plate**
- For use at ridge and endlaps
- Prepunched
- 16 gauge red oxide

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

**Bearing Plate Standard**
- 16 gauge red oxide
- For use with low or utility systems
- For use with rigid board insulation

**Product Checklist**
- 12" Wide HW-7764
- 16" Wide HW-7766
- HW-230
- HW-232
- HW-236
- HW-234
- HW-230 - Low
- HW-232 - High
- HW-7712 - Low
- HW-7722 - High
- HW-7500

**Subject to Change Without Notice**
See metlspan.com for current information.
GENERAL INFORMATION

PRODUCT CHECKLIST

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Option 1</th>
<th>Option 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eave Plate, Low</td>
<td>• 8'-0&quot; length</td>
<td>• 8'-0&quot; length</td>
</tr>
<tr>
<td></td>
<td>• 14 gauge</td>
<td>• 14 gauge</td>
</tr>
<tr>
<td></td>
<td>• Red Oxide</td>
<td>• Red Oxide</td>
</tr>
<tr>
<td>Floating Eave Plate, Low</td>
<td>HW-7600</td>
<td>HW-7616</td>
</tr>
<tr>
<td></td>
<td>HW-7617</td>
<td>HW-7618</td>
</tr>
<tr>
<td>Mid-Slope Fixed Plate, Low</td>
<td>• 14 gauge</td>
<td>• 14 gauge</td>
</tr>
<tr>
<td></td>
<td>• Red Oxide</td>
<td>• Red Oxide</td>
</tr>
<tr>
<td>Mid-Slope Fixed Plate, High</td>
<td>HW-7630 (10'-10&quot; Long)</td>
<td>HW-7637 (6'-10&quot; Long)</td>
</tr>
<tr>
<td></td>
<td>HW-7631 (20'-10&quot; Long)</td>
<td>HW-7638 (10'-10&quot; Long)</td>
</tr>
<tr>
<td></td>
<td>HW-7632 (6'-10&quot; Long)</td>
<td>HW-7639 (20'-10&quot; Long)</td>
</tr>
</tbody>
</table>

See metlspan.com for current information.
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GENERAL INFORMATION

PRODUCT CHECKLIST

Valley Support Plate – Low Systems

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

Extended Valley Support Plate – Low Systems

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

Valley Support Plate – High Systems

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

Valley Support Plate – Low Systems

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

Valley Support Plate – Low Systems

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

Extended Valley Support Plate – Low Systems

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

Hip Support Plate – High or Low Floating Systems

- Use Over Purlins/Joists
- 10'-0" Long

Hip Support Plate – Low Floating Systems

- Use Over Solid Substrate
- 10'-0" Long

Ridge/Hip Support Plate – Low Fixed Systems

- Use with all Substrates
- 10'-0" Long

Ridge/Hip Support Plate – High Fixed Systems

- Use with all Substrates
- 10'-0" Long
### GENERAL INFORMATION

#### PRODUCT CHECKLIST

<table>
<thead>
<tr>
<th>Tape Sealer</th>
<th>Thermal Spacer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Triple Bead</strong>&lt;br&gt;HW-502</td>
<td>• Polystyrene block used to increase the insulation capacity along the purlins&lt;br&gt;HW-583 9/16&quot;&lt;br&gt;HW-582 3/8&quot;&lt;br&gt;HW-581 1&quot;</td>
</tr>
<tr>
<td>* 3/16&quot; x 2/7&quot; x 20’&lt;br&gt;For use at valley when using exposed fasteners&lt;br&gt;For use with roof curbs</td>
<td></td>
</tr>
<tr>
<td><strong>Tri-Bead</strong>&lt;br&gt;HW-504</td>
<td></td>
</tr>
<tr>
<td>* 3/8&quot; x 5/8&quot; x 25’&lt;br&gt;For use at eave, ridge, endlaps and trim connections</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tape Sealer-Swaged</th>
<th>Panel Hemming Tool</th>
<th>Tube Sealant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HW-515</strong>&lt;br&gt;HW-602</td>
<td></td>
<td>Urethane (White) - HW-540&lt;br&gt;Urethane (Gray) - HW-541&lt;br&gt;Urethane (Bronze) - HW-542&lt;br&gt;Non-Skinning Butyl - HW-549</td>
</tr>
<tr>
<td>6”</td>
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</table>

<table>
<thead>
<tr>
<th>Outside Closure</th>
<th>Light Transmitting Panel (Reinforced) ‡</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>• 24 gauge&lt;br&gt;• Painted</td>
<td>* Std. Insulated - HW-1803S&lt;br&gt;Std. Uninsulated - HW-1802S&lt;br&gt;UL 90 Insulated - HW-1801S&lt;br&gt;UL 90 Uninsulated - HW-1800S</td>
<td></td>
</tr>
<tr>
<td><strong>HW-446</strong>&lt;br&gt;HW-440</td>
<td>12” wide&lt;br&gt;16” wide</td>
<td></td>
</tr>
</tbody>
</table>

‡ 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.
GENERAL INFORMATION

PRODUCT CHECKLIST

Ridge Flashing

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ROOF PITCH</th>
<th>DIM. &quot;A&quot;</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL-200</td>
<td>-3¾:12</td>
<td>3 &quot;</td>
<td>For use without ventilator 18&quot; Peak purlin spacing</td>
</tr>
<tr>
<td>FL-202</td>
<td>3</td>
<td>-6:12</td>
<td>4 &quot;</td>
</tr>
<tr>
<td>FL-213</td>
<td>-3¾:12</td>
<td>6 &quot;</td>
<td>For use without ventilator 24&quot; Peak purlin spacing</td>
</tr>
<tr>
<td>FL-214</td>
<td>3</td>
<td>-6:12</td>
<td>7 &quot;</td>
</tr>
</tbody>
</table>

Ridge Flashing for Perforated Vent Drip

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ROOF PITCH</th>
<th>DIM. &quot;A&quot;</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL-300</td>
<td>-3¾:12</td>
<td>4 &quot;</td>
<td>For use with perforated vent drip (FL-254) 18&quot; Peak purlin spacing</td>
</tr>
<tr>
<td>FL-302</td>
<td>3</td>
<td>-6:12</td>
<td>5 &quot;</td>
</tr>
<tr>
<td>FL-303</td>
<td>-3¾:12</td>
<td>7 &quot;</td>
<td>For use with perforated vent drip (FL-254) 24&quot; Peak purlin spacing</td>
</tr>
<tr>
<td>FL-304</td>
<td>3</td>
<td>-6:12</td>
<td>8 &quot;</td>
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</table>

Ridge/Hip Flashing - Fixed

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ROOF PITCH</th>
<th>DIM. &quot;A&quot;</th>
<th>NOTE</th>
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</thead>
<tbody>
<tr>
<td>FL-209</td>
<td>-3¾:12</td>
<td>6&quot;</td>
<td>For use without vent material 18&quot; Peak purlin spacing</td>
</tr>
<tr>
<td>FL-211</td>
<td>3</td>
<td>-6:12</td>
<td>7&quot;</td>
</tr>
<tr>
<td>FL-212</td>
<td>All Pitches</td>
<td>11 &quot;</td>
<td>For use without vent material 24&quot; Peak purlin spacing</td>
</tr>
</tbody>
</table>

Ridge End Cap

- Specify Ridge to be used and Roof Slope

Floating Peak Box

- Includes Cinch Angles and Flexible Membrane
- Specify Roof Slope

| FL-125   | Length - 2'-1" |
| Girth - 33 " |
- 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 " |
- For use with FL-205, FL-207, FL-303, FL-304, FL-543 or FL-544 Ridge Flashing

Perforated Vent Drip

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

| FL-254   | 24 Gauge Material |

Zee Closure

- Use at Hips

24 Gauge Material

Sculptured High Side Eave Trim

- Specify open hem when using with continuous cleat

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ROOF PITCH</th>
<th>DIM. A</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL-265</td>
<td>-1 :12</td>
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<tr>
<td>FL-265B</td>
<td>1 -4:12</td>
<td>3 &quot;</td>
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</table>
GENERAL INFORMATION

PRODUCT CHECKLIST

Sculptured Gutter - Standard

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ROOF PITCH</th>
<th>DIM. &quot;A&quot;</th>
<th>GIRTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL-248A</td>
<td>-4:12</td>
<td>7 &quot;</td>
<td>23 &quot;</td>
</tr>
<tr>
<td>FL-248B</td>
<td>4 -6:12</td>
<td>7 &quot;</td>
<td>24 &quot;</td>
</tr>
</tbody>
</table>

Gutter Strap

• For use with Sculptured Gutter

18 Gauge Material

FL-246

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

FL-245

Variable Termination

FL-111

Rake Slide - High Wind

FL-117

Sculptured Eave Trim

FL-253

Eave with Extended Drip Edge

• Use with Roof Slopes - 6:12
• Specify open hem when using with continuous cleat

FL-215

Box High Side Eave Trim

FL-331

Box Eave Trim

• Specify open hem when using with continuous cleat

FL-326
GENERAL INFORMATION

PRODUCT CHECKLIST

Box Rake Trim

Parapet Rake Cleat - High Wind

Box Gutter with Drip Edge

Gutter Strap

Parapet High Side Eave Flashing - Fixed

Gutter Ends Left or Right

Parapet Rake Flash

Parapet High Side Eave Flash - Floating

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DIM. A</th>
</tr>
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<tbody>
<tr>
<td>FL-285</td>
<td>3&quot;</td>
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<tr>
<td>FL-286</td>
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<td>FL-287</td>
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<thead>
<tr>
<th>PART NO.</th>
<th>DIM. A</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL-275</td>
<td>3 &quot;</td>
</tr>
<tr>
<td>FL-274</td>
<td>4 &quot;</td>
</tr>
</tbody>
</table>

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

PRODUCT CHECKLIST

Offset Cleat

![Offset Cleat Diagram]

- 24 Gauge Material
- FL-337

Continous Cleat

![Continous Cleat Diagram]

- 24 Gauge Material
- FL-338

Counter Flash

![Counter Flash Diagram]

- 24 Gauge Material
- FL-341

Alternate Counter Flash

![Alternate Counter Flash Diagram]

- 24 Gauge Material
- FL-343

Box Panel Cap Trim

![Box Panel Cap Trim Diagram]

- Specify Roof Pitch
- FL-272

Offset Panel Cap Trim

![Offset Panel Cap Trim Diagram]

- FL-271

Standard Valley - Utility, Low and High Systems

![Standard Valley Diagram]

- 24 Gauge Material
- FL-705

Extended Valley - Utility, Low and High Systems

![Extended Valley Diagram]

- 24 Gauge Material
- FL-711

SEE metlspan.com FOR CURRENT INFORMATION
SUBJECT TO CHANGE WITHOUT NOTICE
# GENERAL INFORMATION

## PRODUCT CHECKLIST

<table>
<thead>
<tr>
<th>Fastener #1B</th>
<th>Fastener #1E</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Clip to purlin (Up to 4” insulation between panel and purlin)</td>
<td>• Panel to eave plate or eave strut</td>
</tr>
<tr>
<td><img src="image1" alt="Fastener #1B" /></td>
<td><img src="image2" alt="Fastener #1E" /></td>
</tr>
<tr>
<td>¼&quot;-14 x 1 ¼&quot; Self Driller</td>
<td>¼&quot;-14 x 1 ¼&quot; Long Life Self Driller</td>
</tr>
<tr>
<td>⅜&quot; Hex Washer Head with no washer</td>
<td>⅜&quot; Hex Washer Head, with sealing washer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fastener #2B</th>
<th>Fastener #2A</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Endlap over plywood</td>
<td>• Use in place of Fasteners #1E, #2B and #4 at all strip outs</td>
</tr>
<tr>
<td><img src="image3" alt="Fastener #2B" /></td>
<td><img src="image4" alt="Fastener #2A" /></td>
</tr>
<tr>
<td>¼&quot;-14 x 1 ¼&quot; Long Life AB</td>
<td>17 x 1&quot; Long Life AB</td>
</tr>
<tr>
<td>⅜&quot; Hex Washer Head, with sealing washer</td>
<td>⅜&quot; Hex Washer Head, with sealing washer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fastener #4</th>
<th>Fastener #5</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Ridge and other flashing to outside closure</td>
<td>• Rake support to purlin (Floating System Only)</td>
</tr>
<tr>
<td><img src="image5" alt="Fastener #4" /></td>
<td><img src="image6" alt="Fastener #5" /></td>
</tr>
<tr>
<td>¼&quot;-14 x ¾&quot; Long Life Lap Tek® Self Driller</td>
<td>¼&quot;-14 x 1 ¼&quot; Shoulder Tek® 2 Self Driller</td>
</tr>
<tr>
<td>⅜&quot; Hex Washer Head, with sealing washer</td>
<td>⅜&quot; Hex Washer Head, with no washer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fastener #6A</th>
<th>Fastener #11</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Clip to joist</td>
<td>• Special application fastener</td>
</tr>
<tr>
<td><img src="image7" alt="Fastener #6A" /></td>
<td><img src="image8" alt="Fastener #11" /></td>
</tr>
<tr>
<td>12-24 x 1 ½&quot; Tek® 5 Self Driller</td>
<td>¼&quot; x 1 ¼&quot; Nail Drive Masonry Anchor</td>
</tr>
<tr>
<td>⅜&quot; Hex Washer Head, with no washer</td>
<td>⅜&quot; Hex Washer Head, with no washer</td>
</tr>
</tbody>
</table>

---

**NOTE:** Subject to change without notice. See metlspan.com for current information.
| Fastener #12A | • Rake angle to purlin  
• Hip and valley support plates to purlins  
• Valley flashing to valley support plate |
| --- | --- |
| Fastener #13A | • Offset cleat to plywood  
• Rake angle to plywood |
| Fastener #14A | • Outside closure to angle on floating hip detail |
| Fastener #14 | • Trim to trim connections |
| Fastener #226 | • Dekstrip to Expansion Ridge/Expansion Lap |
| Fastener #18 | • Panel clips to wood deck  
• Outside closure to panel over wood deck |
| Fastener #228 | • Dekstrip to Expansion Ridge/Expansion Lap |

12 x 1" #2 Phillips/Square Drive Pancake Head Driller

Stainless Steel Pop Rivet ⅛" diameter x ⅜" grip range

Stainless Steel Pop Rivet ⅛" diameter x ⅜" grip range

⅛" x ⅜" Rivet Cendalum Closed End Rivet

14 x 1" Type A  
⅛" Hex Washer Head, with ½" O.D. washer

10 x ½" Aluminum Grommet Washer

/*-14 x */ Long Life Lap TEK  
½" Hex Head, with ⅛" O.D. washer

/*-14 x 1" Self Driller  
⅛" Hex Head, with ⅛" O.D. washer

⅛"-14 x ⅜" Long Life Type B with washer

18 Gauge maximum drilling thickness
GENERAL INFORMATION

SuperLok®
Panel Orientation

I. Jobsite Storage and Handling
   A. Check the shipment against the shipping list.
   B. Damaged material must be noted on the 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.
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 (¼" in 20’ or ⅜" 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.
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.

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

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.
**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.
GENERAL INFORMATION

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

PANEL HANDLING

• All panel bundles must be inspected during unloading and carrier advised immediately if damage is noted.

• Never unload or move panel bundles that have been opened without adequately clamping them. Without the banding to hold the bundle stable, panels may shift during unloading or movement, causing the bundle to fall.

• Never use wire slings to unload or move panel bundles.

• When unloading or moving panel bundles over 20' long, a spreader bar may be required. It is the erector’s responsibility to determine the location and number of lift points required to safely unload or move panel bundles.

• When handling individual panels, always wear protective gloves. OSHA safety regulations must be followed at all times.

• When cutting panels, always wear all required safety equipment such as safety glasses and gloves. Cut panels with nibblers, shears or snips. Do not use abrasive blade saws as these will melt the Galvalume® coating causing the panel to edge rust which will void the Galvalume® and Paint warranties. Drilling fasteners into panels will create metal filings that will rust and create an unsightly stain. Metal filings must removed by sweeping or wiping down panels immediately after installation to avoid this occurrence.

PANEL STORAGE

• If water is permitted to enter panel bundles, it is necessary to open bundles, separate the panels and dry all surfaces.

• Store bundled panels off the ground sufficiently high to allow air circulation beneath bundle and to prevent rising water from entering bundle. Slightly elevate one end of bundle.

• Prevent rain from entering bundle by covering with tarpaulin, making provision for air circulation between draped edges of tarpaulin and the ground.

• Prolonged storage of panels in a bundle is not recommended. If conditions do not permit immediate erection, extra care should be taken to protect panels from white rust or water marks. If panels have not been erected within three weeks of receipt, the panels should be removed from the bundle for inspection. Condensation may cause damage to panels. The manufacturer’s Paint and Galvalume® warranties do not cover damage caused by improper panel storage.

PANEL MAINTENANCE

• Never allow Galvalume® panels to come into contact with or water runoff from dissimilar materials such as copper, lead, or graphite. These materials will cause galvanic corrosion of the panels and will void the Galvalume® warranty. This includes treated wood and AC condensate, both of which contain copper compounds. This also applies to painted panels.

• Always use long life fasteners in all exposed fastener applications. Non long life fasteners can rust through the panel at each exposed fastener location. Use of non long life fasteners in exposed applications will void the Galvalume® and Paint warranties.

• Panels should be protected against exposure to masonry products, strong acids or bases and solvents. Exposure to these agents may etch or stain Galvalume Plus® panels and cause painted panels to blister or peel.

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

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

• 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.
RAKE ATTACHMENT

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

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

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

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

RAKE SUPPORT

FASTENER REQUIREMENTS

• Fixed System - Fastener #1
• Floating System - Fastener #5

CAUTION

(For Floating Systems Only)

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

- Box panel cap trim
- Fastener #14
- Eave strut
- Wall panel
- Wall panel depth

**WALL PANEL INSTALLED BEFORE OR AFTER ROOF**

- Offset panel cap trim
- Fastener #14
- Eave strut

**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**

**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.

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

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

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

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*Not by Manufacturer*
**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.
**FIRST PANEL**

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

**NOTE:**

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

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

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

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

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

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

Install fasteners at eave as outlined in Step 4.

Install clips as outlined in Step 5.

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

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

Install back-up plate and clip as outlined in Step 7.
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.
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.
SEAMING OPERATION
(Continued)

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.
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.
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 panel. 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.
1. SuperLok® PANEL
2. SuperLok® LIGHT TRANSMITTING PANEL
3. LIGHT TRANSMITTING PANEL STIFFENER PLATE
4. BACK-UP PLATE
5. PURLIN

NOTES:
1. Maximum width of purlin flange to be 3 1/2".
2. Stiffener plate is to be field installed on bottom side of light transmitting panel over mid-purlin.
3. Light transmitting panel rivets that obstruct stiffener plate must be drilled out and replaced with Fastener #1E. Minimum two fasteners per side.
4. Stiffener plate must be centered exactly over mid-purlin so that thermal movement of the system is not restrained by the purlin.
5. Endlaps created by the use of light transmitting panels require roof erection to proceed from right to left as viewed from the eave looking toward the ridge.
STEP 1

LOWER BATTENLOK HS PANEL
1. Install Back-up plate on lower panel.
2. Install Triple Bead Tape as shown on lower panel.
3. Install Butyl Sealant as shown up the vertical legs and over the male and female seam.

STEP 2

DOWN SLOPE END OF LTP
1. Field cut male leg 6" as shown.
2. Field open female leg 6" to allow panel lap to engage.
SPECIAL ERECTION TECHNIQUES

RIVETED RAIL LTP INSTALLATION (cont’d.)

STEP 3

UPPER AND LOWER PANELS
1. C-clamp both vertical male legs together prior to rotating upper panel into place.
2. Lift LTP up slightly in center of panel to help get male and female legs to nest properly.

STEP 4

UPPER AND LOWER PANELS
1. C-clamp both female vertical legs together.
2. Install 1/4-14 x 1 1/4” long life fasteners (43L) in the sequence shown.
SPECIAL ERECTION TECHNIQUES

RIVETED RAIL LTP INSTALLATION (cont’d.)

STEP 5

**UPSOLE END OF LTP**
1. Install Back-up plate on lower LTP panel.
2. Install Triple Bead Tape as shown on LTP Panel.
3. Install Butyl Sealant as shown up the vertical legs and over the male and female seam.
4. Apply generous bead of butyl sealant on top of triple bead tape sealer.

STEP 6

**UPPER BATTENLOK HS PANEL DOWN SLOPE END**
1. Field cut male leg 6” as shown.
2. Field open female leg 6” to allow panel lap to engage.
**STEP 7**

**UPPER AND LOWER PANELS**
1. C-clamp both vertical male legs together prior to rotating upper panel into place.
2. Lift panel up slightly in center of panel to help get male and female legs to nest properly.

**STEP 8**

**UPPER AND LOWER PANELS**
1. C-clamp both female vertical legs together.
2. Install 1/4-14 x 1 1/4" long life fasteners (#1E) in the sequence as shown.
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.

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

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

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.
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
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.
NOTES:
1. Attach the Curb Base to the roof panels.

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

CURB INSTALLATION
CAP CELL INSTALLATION

FILL THE END OF THE CAP CELL WITH URETHANE TUBE SEALANT

STEP 1

LOOSE CAP CELL (SUPPLIED BY CURB MFG.)

STEP 2

FASTENER #1E
\[\frac{1}{4}" - 14 \times \frac{1}{4}"\]
AT 1" O.C.

CURB BASE

ROOF PANEL #4
ROOF PANEL #3
ROOF PANEL #2
ROOF PANEL #1

PANEL RIB

SHEETING DIRECTION

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
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

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
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.
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
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

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
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

CURB INSTALLATION
CURB BASE INSTALLATION #5

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

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

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

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

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.
**SPECIAL ERECTION TECHNIQUES**

**CURB INSTALLATION**

**UPLIFT PLATE FIELD NOTCH**

**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.

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.
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

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.

SEE metlspan.com FOR CURRENT INFORMATION
SUPERLOK®

SPECIAL ERECTION TECHNIQUES

PIPE PENETRATION INSTALLATION

DECK-TIGHT INSTALLATION

STEP 1

STAINLESS STEEL CLAMP
(NOT BY BUILDING MANUFACTURER)

DECK-TIGHT (NOT BY BUILDING MANUFACTURER) ROLL TOP OF DECK-TIGHT DOWN

¼"-14 x ⅞" LONG LIFE LAP TEK® S.D. W/WASHER (FASTENER #4) @ 1" O.C.

TRI-BEAD TAPE SEALER
(HW-504)

STEP 2

STAINLESS STEEL CLAMP
(NOT BY BUILDING MANUFACTURER)

¼"-14 x ⅞" LONG LIFE LAP TEK® S.D. W/WASHER (FASTENER #4) @ 1" O.C.

TRI-BEAD TAPE SEALER
(HW-504)

APPLY TRI-BEAD TAPE SEALER CONTINUOUSLY AROUND PIPE (HW-504)

STEP 3

STAINLESS STEEL CLAMP
(NOT BY BUILDING MANUFACTURER)

¼"-14 x ⅞" LONG LIFE LAP TEK® S.D. W/WASHER (FASTENER #4) @ 1" O.C.

TRI-BEAD TAPE SEALER
(HW-504)

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

OPEN FRAMING

FIXED EAVE WITH SCULPTURED GUTTER

GUTTER STRAP ATTACHMENT

SuperLok® PANEL

GUTTER STRAP (FL-246)
@ EVERY OTHER RIB

¹⁄₄"-14 x ¾" LONG-LIFE LAPTEK
W/WASHER (FASTENER #4)
(2) PER STRAP

URETHANE TUBE SEALANT BETWEEN
PANEL RIBS

EAVE SEALANT

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

FASTENER SPACING @ EAVE

¹⁄₄"-14 x 1½" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E)
(5) PER 16" PANEL (4) PER 12" PANEL

URETHANE TUBE SEALANT BETWEEN
PANEL RIBS

GUTTER STRAP (FL-246)
@ EVERY OTHER RIB

LOW FIXED EAVE PLATE
(HW-7600)

¹⁄₄" x ³⁄₈"
POP RIVET
(FASTENER #14)
@ 5'-0" O.C.

12 - 14 x 1¼"
SELF-DRILLER W/WASHER
(FASTENER #1)
@ 12" O.C.

BOX PANEL CAP TRIM
(FL-272)

12 - 14 x 1¼"
LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #3)

¹⁄₄" x ⁷⁄₈"
POP RIVET
(FASTENER #14)
@ 3'-0" O.C.

SCULPTURED GUTTER
(FL-248A)

WALL PANEL

WALL PANEL THICKNESS

2 ³⁄₄"

BUILDING DIM.

EAVE STRUT

2 ³⁄₄" 12" 1" 1 ³⁄₈" 1 ³⁄₈" 1 ³⁄₁₆"

GUTTER STRAP ATTACHMENT

SuperLok® PANEL

GUTTER STRAP (FL-246)
@ EVERY OTHER RIB

¹⁄₄"-14 x ¾" LONG-LIFE LAPTEK
W/WASHER (FASTENER #4)
(2) PER STRAP

UREDTHANE TUBE SEALANT BETWEEN
PANEL RIBS

EAVE SEALANT

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

FASTENER SPACING @ EAVE

¹⁄₄"-14 x 1½" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E)
(5) PER 16" PANEL (4) PER 12" PANEL

UREDTHANE TUBE SEALANT BETWEEN
PANEL RIBS

GUTTER STRAP (FL-246)
@ EVERY OTHER RIB

LOW FIXED EAVE PLATE
(HW-7600)

¹⁄₄" x ³⁄₈"
POP RIVET
(FASTENER #14)
@ 5'-0" O.C.

12 - 14 x 1¼"
SELF-DRILLER W/WASHER
(FASTENER #1)
@ 12" O.C.

BOX PANEL CAP TRIM
(FL-272)

12 - 14 x 1¼"
LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #3)

¹⁄₄" x ⁷⁄₈"
POP RIVET
(FASTENER #14)
@ 3'-0" O.C.

SCULPTURED GUTTER
(FL-248A)

WALL PANEL

WALL PANEL THICKNESS

2 ³⁄₄"

BUILDING DIM.
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

FASTENER SPACING @ EAVE

1/4"-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E)
(5) PER 16" PANEL
(4) PER 12" PANEL

LOW FIXED EAVE PLATE (HW-7600)

1/4"-14 x 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1)
@ 12" O.C.

1/4" x 1/4" POP RIVET (FASTENER #14)
@ 3'-0" O.C.

TRI-BEAD TAPE SEALER (HW-504)

1/4"-14 x 7/8" LONG-LIFE LAPTTEK W/WASHER (FASTENER #3)
@ 16" O.C.

1/2"-14 x 1" SELF-DRILLER W/WASHER (FASTENER #1)
@ 12" O.C.

1/4" x 5/8" POP RIVET (FASTENER #14A)
@ 5'-0" O.C.

VARIIES W/ ROOF SLOPE
WALL PANEL THICKNESS

1/4"-14 x 5/8" LAPTTEK W/WASHER (FASTENER #4)
@ 12" O.C.

1/2"-14 x 1/2" POP RIVET (FASTENER #14)
@ 3'-0" O.C.

SCULPTURED EAVE TRIM (FL-253)

SUPERLOK® PANEL
DETAILS
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

1/4"-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E)
5 PER 16" PANEL
4 PER 12" PANEL

1/4"-14 x 1" SELF-DRILLER W/WASHER (FASTENER #3)
@ 12" O.C.

1/4" - 3/16" POP RIVET (FASTENER #14A) @ 5'-0" O.C.

TRI-BEAD TAPE SEALER (HW-504)

LOW FIXED EAVE PLATE (HW-7800)

URETHANE TUBE SEALANT BETWEEN PANEL RIBS

WALL PANEL

OUTSIDE CLOSURE

EAVE STRUT

BUILDING DIM.

SUPERLOK® PANEL

URETHANE TUBE SEALANT BETWEEN PANEL RIBS

EAVE END OF PANEL

SUBJECT TO CHANGE WITHOUT NOTICE
SEE metispan.com FOR CURRENT INFORMATION
REV 01.01
SL-71
OPEN FRAMING
FLOATING RIDGE

- TRI-BEAD TAPE SEALER (HW-504)
- OUTSIDE CLOSURE (HW-440) @ 16" PANEL (HW-446) @ 12" PANEL
- LOW FLOATING CLIP (HW-230)
- BACK-UP PLATE (HW-7766) @ 16" PANEL (HW-7764) @ 12" PANEL
- TRI-BEAD TAPE SEALER (HW-504) CONT. ACROSS PANEL
- ¼"-14 x 1½" SELF-DRILLER W/WASHER (FASTENER #1E) (2) PER CLIP

- RIDGE TRIM (FL-213)
- ZEE PURLIN
- SUPERLOK® PANEL

- ¹⁄₂"-14 x 1½" SELF-DRILLER W/O WASHER (FASTENER #1B) (2) PER CLIP

- URETHANE TUBE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL VOIDS

- ¼"-14 x 1½" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (1) PER RIB

- ¼"-14 x ¾" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)

- ¼"-14 x 1½" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (4) PER 16" PANEL (3) PER 12" PANEL

- ¼"-14 x 1½" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)

- URETHANE TUBE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL VOIDS

- ¼"-14 x 1½" SELF-DRILLER W/WASHER (FASTENER #1E) (1) PER RIB
OPEN FRAMING
FLOATING VENTED RIDGE

PERFORATED VENT DRIP
(FL-254)

TRI-BEAD TAPE SEALER (HW-504)

LOW FLOATING CLIP (HW-230)

SuperLok® PANEL

12-14 x 1" SELF-DRILLER W/WASHER (FASTENER #17)
(1) PER BIB

¼"-14 x ¾" LONG-LIFE LAP TEK®
SELF-DRILLER W/WASHER
(FASTENER #4) @ 6" O.C.

¼" x ¾" POP RIVET
(FASTENER #14) @ 6" O.C.

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

BACK-UP PLATE
(HW-7766) @ 16" PANEL
(HW-7764) @ 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504)

1¼"-14 x 1¼" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2) PER CLIP

PURLIN

LOW FLOATING CLIP (HW-230)

SuperLok® PANEL

12-14 x 1" SELF-DRILLER
W/WASHER (FASTENER #17)
(1) PER BIB

¼"-14 x ¾" LONG-LIFE LAP TEK®
SELF-DRILLER W/WASHER
(FASTENER #4) @ 6" O.C.

¼" x ¾" POP RIVET
(FASTENER #14) @ 6" O.C.

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

BACK-UP PLATE
(HW-7766) @ 16" PANEL
(HW-7764) @ 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504)

1¼"-14 x 1¼" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2) PER CLIP

PURLIN

LOW FLOATING CLIP (HW-230)

SuperLok® PANEL

12-14 x 1" SELF-DRILLER
W/WASHER (FASTENER #17)
(1) PER BIB

¼"-14 x ¾" LONG-LIFE LAP TEK®
SELF-DRILLER W/WASHER
(FASTENER #4) @ 6" O.C.

¼" x ¾" POP RIVET
(FASTENER #14) @ 6" O.C.

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

BACK-UP PLATE
(HW-7766) @ 16" PANEL
(HW-7764) @ 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504)

1¼"-14 x 1¼" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2) PER CLIP

PURLIN

LOW FLOATING CLIP (HW-230)

SuperLok® PANEL

12-14 x 1" SELF-DRILLER
W/WASHER (FASTENER #17)
(1) PER BIB

¼"-14 x ¾" LONG-LIFE LAP TEK®
SELF-DRILLER W/WASHER
(FASTENER #4) @ 6" O.C.

¼" x ¾" POP RIVET
(FASTENER #14) @ 6" O.C.

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

BACK-UP PLATE
(HW-7766) @ 16" PANEL
(HW-7764) @ 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504)

1¼"-14 x 1¼" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2) PER CLIP

PURLIN

LOW FLOATING CLIP (HW-230)

SuperLok® PANEL

12-14 x 1" SELF-DRILLER
W/WASHER (FASTENER #17)
(1) PER BIB

¼"-14 x ¾" LONG-LIFE LAP TEK®
SELF-DRILLER W/WASHER
(FASTENER #4) @ 6" O.C.

¼" x ¾" POP RIVET
(FASTENER #14) @ 6" O.C.

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

BACK-UP PLATE
(HW-7766) @ 16" PANEL
(HW-7764) @ 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504)

1¼"-14 x 1¼" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2) PER CLIP
OPEN FRAMING
FIXED VENTED EAVE

CROSS SECTION OF VENTED EAVE
(OVERHANG MAXIMUM 2'-0"

CLOSING CLIP (HW-230)

LOW FLOATING CLIP (HW-230)

1/4" x 1/4" S.D.
W/O WASHER
(FASTENER #1B)
(2) PER CLIP

1/4" x 1/4" L.S.D.
W/WASHER
(FASTENER #1E)
@ 12" O.C.

1/4" x 3/16" POP RIVET
(FASTENER #14)
@ 12" O.C.

1/4" x 3/16" POP RIVET
(FASTENER #14)
@ 10" O.C.

PERFORATED ALUMINUM
SOFFIT PANEL

1/4" x 3/16" POP RIVET
(FASTENER #14)
@ 12" O.C.

1/4" x 3/16" POP RIVET
(FASTENER #14)
@ 12" O.C.

1/4" x 1/4" L.S.D.
W/WASHER
(FASTENER #1E)
@ 12" O.C.

WALL PANEL

GIRT
DETAILS

OPEN FRAMING
SCULPTURED RAKE WITH CLEAT

1/4" x 1/4" LONG LIFE S.D. W/WASHER (FASTENER #1E) @ 24" O.C.
12-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #3)
SCULPTURED RAKE TRIM (FL-111)
HIGH WIND RAKE SLIDE (F-215)
1/4"-14 x 1 1/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 12" O.C.
OUTSIDE CLOSURE
WALL PANEL

1/2"-14 x 1 1/2" LONG LIFE LAPTEK W/WASHER (FASTENER #4) @ 8" O.C.
HIGH WIND PARAPET RAKE CLEAT (F-292)
FIELD CUT & BEND UP 2" PANEL LEG AS REQ'D WHEN ENDING OFF MODULE
LOW RAKE SUPPORT ANGLE (HW-7712)

1/4"-14 x 1 1/4" LONG LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C.
1/2"-14 x 1 1/2" SELF DRILLER W/O WASHER (FASTENER #1B) (2) PER CLIP
1/2"-14 x 1 1/2" SHOULDER TEK® 2 SELF DRILLER (FASTENER #5) @ 24" O.C. (CENTER IN SLOT)
12-14 X 1" PANCAKE HEAD SELF-DRILLER (FASTENER #12A) (1) PER CONN. @ EACH PURLIN
2 X 4 X 16 GA. ANGLE

3/8"

ZEE PURLIN

LOW FLOATING CLIP (HW-230)

SUPERLOK® PANEL

1/4"-14 x 1 1/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 8" O.C.

TRI-BEAD TAPE SEALER (HW-504)
OPEN FRAMING PARAPET RAKE

14-10 x 2" DECK SCREW (FASTENER #209) @ 24" O.C. (PRE-DRILL HOLE)

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

12-14 X 1" PANCAKE HEAD SELF DRILLER (FASTENER #12A) (1) PER CONN. @ EACH PURLIN

2 X 4 X 16 GA. ANGLE

ZEE PURLIN

MASONRY WALL (NOT BY Metl-Span)

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

LOW RAKE SUPPORT ANGLE (HW-7712)

FLEXIBLE MEMBRANE

TRI-BEAD TAPE SEALER (HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

1 1/8" FIELD SAWCUT

BUILDING DIM.

URETHANE TUBE SEALANT CONTINUOUS

COUNTERFLASH (FL-341)

PARAPET RAKE TRIM (FL-285)

TRI-BEAD TAPE SEALER (HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

HIGH WIND PARAPET RAKE CLEAT (F-292)

1/4" - 1/4" LONG LIFE S.D. W/WASHER (FASTENER #1E) @ 24" O.C.

LOW FLOATING CLIP (HW-230)

SuperLok® PANEL

SUPERLOK®
OPEN FRAMING
PARAPET FLOATING HIGH SIDE EAVE

MASONRY WALL
(NOT BY Metl-Span)

URETHANE TUBE SEALANT
CONTINUOUS

COUNTER FLASH (FL341)

PARAPET HIGH EAVE TRIM
(FL-275)

½"-14 x ⅝" LONG-LIFE LAPTEK
W/WASHER (FASTENER #4) @ 6" O.C.
(DO NOT INSTALL THRU PANEL RIB)

TRI-BEAD TAPE SEALER (HW-504)
@ TOP OF CLOSURE & TOP OF
FLEXIBLE MEMBRANE

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

LOW FLOATING CLIP (HW-230)

SUPERLOK® PANEL

½"-14 x ⅜" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2 PER CLIP)

ZEE PURLIN

2"

2"

7"

FIELD SAWCUT

BUILDING DIM.

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF
FLEXIBLE MEMBRANE

14-10 x 2" DECK SCREW
(FASTENER #209) @ 24" O.C.
(PRE-DRILL HOLE)

FLEXIBLE MEMBRANE

URETHANE TUBE SEALANT
@ CLOSURE ENDS/PANEL RIB
& LAPPING CLOSURE TABS TO
SEAL ALL VOIDS

½"-14 x 1¼" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E) (1) PER RIB

BACKUP PLATE
(HW-7766) @ 16" PANEL
(HW-7764) @ 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504)

½"-14 x 1¼" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E)
(4) PER 16" PANEL
(3) PER 12" PANEL
DETAILS
OPEN FRAMING
FIXED VALLEY

SuperLok® PANEL

URETHANE SEALANT

VALLEY END
OF PANEL

VARIES

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

ZEE PURLIN
12-14 X 1" PANCAKE HEAD SELF DRILLER (FASTENER #12A) @ 5'-0" O.C.

URETHANE TUBE SEALANT BETWEEN PANEL RIBS

VALLEY TRIM (FL-705)

FIELD NOTCH PLATE @ PURLIN AS REQUIRED

12-14 X 1" PANCAKE HEAD SELF-DRILLER (FASTENER #12A) (2) PER CONN. @ EACH PURLIN

1/4"-14 x 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #1E) @ 3" O.C. (FASTENER MUST GO THROUGH TAPE SEALER)

TRIPLE-BEAD TAPE SEALER (HW-502)

VALLEY SUPPORT PLATE (P-106)

BEVELED EDGE OF ROOF PANEL

DETAL "A"

SuperLok® PANEL

1/4"-14 x 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #1E) @ 3" O.C. (FASTENER MUST GO THROUGH TAPE SEALER)

TRIPLE-BEAD TAPE SEALER (HW-502)

PANCAKE HEAD

SELF-DRILLER (FASTENER #12A)

@ 5'-0" O.C.

12-14 X 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #1E) @ 3" O.C. (FASTENER MUST GO THROUGH TAPE SEALER)

1/4"-14 x 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #12A) @ 5'-0" O.C.

FIELD NOTCH PLATE @ PURLIN AS REQUIRED

12-14 X 1" PANCAKE HEAD SELF-DRILLER (FASTENER #12A) (2) PER CONN. @ EACH PURLIN

SuperLok® PANEL

URESHTANE SEALANT

VALLEY END
OF PANEL

VARIES

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

ZEE PURLIN
12-14 X 1" PANCAKE HEAD SELF DRILLER (FASTENER #12A) @ 5'-0" O.C.

URETHANE TUBE SEALANT BETWEEN PANEL RIBS

VALLEY TRIM (FL-705)

FIELD NOTCH PLATE @ PURLIN AS REQUIRED

12-14 X 1" PANCAKE HEAD SELF-DRILLER (FASTENER #12A) (2) PER CONN. @ EACH PURLIN

1/4"-14 x 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #1E) @ 3" O.C. (FASTENER MUST GO THROUGH TAPE SEALER)

TRIPLE-BEAD TAPE SEALER (HW-502)

PANCAKE HEAD

SELF-DRILLER (FASTENER #12A)

@ 5'-0" O.C.

12-14 X 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #1E) @ 3" O.C. (FASTENER MUST GO THROUGH TAPE SEALER)

1/4"-14 x 1 1/4" LONG LIFE SELF-DRILLER W/WASHER (FASTENER #12A) @ 5'-0" O.C.

FIELD NOTCH PLATE @ PURLIN AS REQUIRED

12-14 X 1" PANCAKE HEAD SELF-DRILLER (FASTENER #12A) (2) PER CONN. @ EACH PURLIN

SuperLok® PANEL

URESHTANE SEALANT

VALLEY END
OF PANEL

VARIES

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

ZEE PURLIN
12-14 X 1" PANCAKE HEAD SELF DRILLER (FASTENER #12A) @ 5'-0" O.C.

URETHANE TUBE SEALANT BETWEEN PANEL RIBS

VALLEY TRIM (FL-705)
OPEN FRAMING
FLOATING HIP

2 x 2 x 16 GA. BACK-UP ANGLE

TRI-BEAD TAPE SEALER (HW-504)
(2) PER CLIP

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

12-14 X 1" PANCAKE HEAD
SELF DRILLER
(FASTENER #12A)
(2) PER CONN. @ EACH PURLIN

2 x 2 x 16 GA. BACK-UP ANGLE

TRI-BEAD TAPE SEALER (HW-504)
CONT. ACROSS PANEL

8 x 5/8" NIBBED DRILLER
(FASTENER #24) @ 4" O.C.

HIP SUPPORT PLATE (P-141)
(FIELD NOTCH @ PURLINS)

ZEE PURLIN

2" 5"

URETHANE TUBE SEALANT
@ CLOSURE ENDS

1/4"-14 x 1/4" LONG LIFE LAPTEK
W/WASHER (FASTENER #4) @ 6" O.C.
(DO NOT INSTALL THRU PANEL RIB)

ZEE CLOSURE (FL-361)
(FIELD CUT TO LENGTH & BEVEL CUT TO FIT PANEL)

LOW FLOATING CLIP
(HW-230)

TRI-BEAD TAPE SEALER
(HW-504)

1/4"-14 x 1 1/4" SELF DRILLER
W/O WASHER (FASTENER #1B)
(2) PER CLIP

RIDGE/HIP TRIM
(FL-213)

1/4"-14 x 7/8" LONG LIFE LAPTEK
W/WASHER (FASTENER #4) @ 6" O.C.
(DO NOT INSTALL THRU PANEL RIB)

ZEE CLOSURE (FL-361)
(FIELD CUT TO LENGTH & BEVEL CUT TO FIT PANEL)
DETAILS

FIELD HEMMING PANEL END

NOTCHING PANEL END

ENGAGING HEMMING TOOL

FORMING OPEN HEM

OFFSET CLEAT

PANEL ENGAGEMENT
WOOD DECK
FLOATING ENDLAP

SWAGED ENDLAP TAPE SEALER
(HW-515)

SUPERLOK® PANEL
(LOWER)

1/4" - 14 x 5/8" LONG-LIFE TYPE "B"
W/WASHER (FASTENER #46)
(5) PER 16" PANEL
(2) PER 12" PANEL

LOW FLOATING CLIP
(HW-230)

14-10 x 1" TYPE "A"
SELF-TAPPER W/WASHER
(FASTENER #18)
(2 PER CLIP)

MOISTURE BARRIER
(NOT BY Metl-Span)

5/8" PLYWOOD (MIN.)
(NOT BY Metl-Span)

UPPER SWAGED SuperLok® PANEL

BACK-UP PLATE
(HW-7766) 16" PANEL
(HW-7766) 12" PANEL

FASTENER INSTALLATION SEQUENCE

REV 01.01
SL-83
Details

Wood Deck
Floating Eave with Box Gutter

Eave Sealant Detail

Butyl Sealant must come in contact with the drip edge to form a weathertight seal.

Non-Skinning Butyl Sealant (HW-549) between panel ribs.

Gutter strap (FL-310) @ every other rib.

3/16" x 3/8" Pop Rivet (Fastener #14) (2) per strap.

Box gutter w/drip edge (T-5271).

1/4"-14 x 1" Long-life "Type AB" Self-Tapper w/washer (Fastener #2B).

Wall panel.

Building Dim.

Wall panel thickness.

1/4" Plywood (Min.) (not by Metl-Span)

1/4" Plywood spacer (not by Metl-Span)

Wood blocking (not by Metl-Span)

1 1/2" Legs and bend panel to form open hem.

Low floating clip (HW-230).

1/4" Moisture barrier (not by Metl-Span).

14-10 x 1" Type 'A' Self-Tapper w/washer (Fastener #18) (2) per clip.

12-11 x 1" Pancake head self-tapper (Fastener #13A) @ 12" O.C.

BUTYL SEALANT MUST COME IN CONTACT WITH THE DRIP EDGE TO FORM A WEATHERTIGHT SEAL.

Non-Skinning Butyl Sealant (HW-549) between panel ribs.

Gutter strap (FL-310) @ every other rib.

3/16" x 3/8" POP RIVET (FASTENER #14) (2) PER STRAP.

BOX GUTTER W/DRIP EDGE (T-5271).

1/4"-14 x 1" LONG-LIFE "TYPE AB" SELF-TAPPER W/WASHER (FASTENER #2B).

WALL PANEL.

FIELD NOTCH PANEL LEGS AND BEND PAN TO FORM OPEN HEM.

LOW FLOATING CLIP (HW-230).

1/4" MOISTURE BARRIER (NOT BY METL-SPAN).

14-10 X 1" TYPE 'A' SELF-TAPPER W/WASHER (FASTENER #18) (2) PER CLIP.

12-11 X 1" PANCAKE HEAD SELF-TAPPER (FASTENER #13A) @ 12" O.C.

1/4" PLYWOOD SPACER (NOT BY METL-SPAN).

WOOD BLOCKING (NOT BY METL-SPAN).
WOOD DECK
FLOATING EAVE WITH EAVE TRIM WITH EXTENDED DRIP EDGE

FIELD NOTCH PANEL LEGS AND BEND PAN TO FORM OPEN HEM

1 1/2"
1 1/2"
1 1/2"
1 1/2"
1 1/2"

EAVE TRIM W/DRIP EDGE (T-5271)

LOW FLOATING CLIP (HW-230)

MOISTURE BARRIER (NOT BY Metl-Span)

14-10 x 1 TYPE 'A' SELF-TAPPER W/WASHER (FASTENER #18) (2) PER CLIP

1/4" PLYWOOD (MIN.) (NOT BY Metl-Span)
CONT. 3/8" PLYWOOD Spacer (NOT BY Metl-Span)

12-11 x 1 PANCAKE HEAD SELF-TAPPER (FASTENER #13A) @ 12" O.C.

EAVE SELANT DETAIL

BUTYL SEALANT MUST COME IN CONTACT WITH THE DRIP EDGE TO FORM A WEATHERTIGHT SEAL

NON-SKINNING BUTYL SEALANT (HW-549) BETWEEN PANEL RIBS

WALL PANEL

WOOD BLOCKING (NOT BY Metl-Span)

SUPERLOK® PANEL

SUPERLOK® PANEL

EAVE END OF PANEL

NON-SKINNING BUTYL SEALANT (HW-549) BETWEEN PANEL RIBS

EAVE TRIM W/DRIP EDGE (T-5151)

1/4 - 14 x 1 LONG-LIFE 'TYPE AB' SELF-TAPPER W/WASHER (FASTENER #2B)

1/4 - 14 x 7/8 LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 12" O.C.

OUTSIDE CLOSURE

WALL PANEL

12 - 11 X 1 PANCAKE HEAD SELF-TAPPER (FASTENER #13A) @ 12" O.C.

SUPERLOK® PANEL

MOISTURE BARRIER (NOT BY Metl-Span)

14-10 x 1 TYPE 'A' SELF-TAPPER W/WASHER (FASTENER #18) (2) PER CLIP

1/4" PLYWOOD (MIN.) (NOT BY Metl-Span)
CONT. 3/8" PLYWOOD Spacer (NOT BY Metl-Span)

12-11 x 1 PANCAKE HEAD SELF-TARGER (FASTENER #13A) @ 12" O.C.

Wood Decking

Butyl Sealant

Moisture Barrier

SuperLok® Panel

Eave Trim with Drip Edge

Building Dimensions
WOOD DECK
FIXED RIDGE

SuperLok® PANEL

3"

RIDGE TRIM (FL-209)

URETHANE TUBE SEALANT
@ CLOSURE ENDS/PANEL RIB
& LAPPING CLOSURE TABS TO
SEAL ALL VOIDS

¼"-14 x ¾" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E) (1) PER RIB

TRI-BEAD TAPE SEALER
(HW-504)

¼"-14 x 1¼" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E) (1) PER RIB

MOISTURE BARRIER
(NOT BY Metl-Span)

¾"-10 x 1" TYPE 'A'
SELF-TAPPER W/WASHER
(FASTENER #18)
(4) PER 16" PANEL
(3) PER 12" PANEL

½" PLYWOOD SPACER
(NOT BY Metl-Span)

TRI-BEAD TAPE SEALER
(HW-504) CONT. ACROSS PANEL

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

3"

2"

2"

2"
SuperLok®

DETAILS

WOOD DECK
FIXED VENTED RIDGE

TRI-BEAD TAPE SEALER (HW-504)
RIDGE END OF PANEL

PERFORATED VENT DRIP (FL-254)

1/4"-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (1) PER RIB

TRI-BEAD TAPE SEALER (HW-504)

2" 2"

RIDGE TRIM (FL-300)

URETHANE SEALANT (HW-504)

PERFORATED VENT DRIP (FL-254)

1/4"-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (1) PER RIB

MOISTURE BARRIER (NOT BY Metl-Span)

1/4" PLYWOOD SPACER (NOT BY Metl-Span)

URETHANE TUBE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL VOIDS

1/4"-14 x 1 1/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)

1/4"-14 x 1 1/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C.

OUTSIDE CLOSURE (HW-440) @ 16" PANEL (HW-446) @ 12" PANEL

14 - 10 x 1" TYPE 'A' SELF-TAPPER W/WASHER (FASTENER #18) (4) PER 16" PANEL (3) PER 12" PANEL

1/4" PLYWOOD (MIN.) (NOT BY Metl-Span)
**DETAILS**

**WOOD DECK**

**BOX RAKE**

- **Tri-Bead Tape Sealer** (HW-504)
- **Low Rake Support Angle** (HW-7712)
- **Box Rake Trim**
- **2 x 4 x 16 GA. Angle**
- **1/4"-14 x 1" Long-Life Type AB Self-Tapper** (Fastener #28)
- **1/2" x 9/16" Pop Rivet** (Fastener #14) @ 12" O.C.
- **Continuous Cleat** (FL-338)
- **Outside Closure**
- **Wall Panel**

**Building Dim.**

- **1/4"-14 x 1/4" Long-Life Laptek W/Washer** (Fastener #4) @ 6" O.C.
- **High Wind Parapet Rake Cleat** (F-292)
- **1/4"-14 x 1 1/2" Long-Life Self-Driller W/Washer** (Fastener #1E) @ 24" O.C.
- **Field Cut & Bend Up 2" Panel Leg As Required When Ending Off Module**

**Low Floating Clip** (HW-230)

**SuperLok Panel**

- **1/34" Plywood (Min.)** (Not By Metl-Span)
- **12-11 x 1" Pancake Head Self-Tapper** (Fastener #13A) @ 24" O.C. (Pre-Drill Angle)
- **1/4"-14 x 1 1/4" Shoulder Tek® 2 Self-Driller** (Fastener #5) @ 24" O.C. (Center In Slot)
- **Wood Blocking** (Not By Metl-Span)
- **14-10 x 1" Type 'A' Self-Tapper W/Washer** (Fastener #18) (2) Per Clip
- **Moisture Barrier** (Not By Metl-Span)
DETAILS
WOOD DECK
PARAPET RAKE

BUILDING DIM.

FEILD SAWCUT

1½" (MIN.)

14-10 x 2 DECK SCREW
(FASTENER #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF
FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

2 x 4 x 16 GAUGE ANGLE

LOW RAKE SUPPORT ANGLE
(HW-7712)

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

MASONRY WALL
(NOT BY Metl-Span)

1½" - 14 x 1½" SHOULDER TEK® 2
SELF-DRILLER (FASTENER #5)
@ 24" O.C. (CENTER IN SLOT)

12-11 x 1" PANCAKE HEAD
SELF-TAPPER (FASTENER #13A)
@ 24" O.C. (PRE-DRILL ANGLE)

WOOD BLOCKING (NOT BY Metl-Span)

¾" PLYWOOD (MIN.)
(NOT BY Metl-Span)

URETHANE TUBE SEALANT
CONTINUOUS

COUNTERFLASH
(FL-341)

PARAPET RAKE TRIM
(FL-285)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF
FLEXIBLE MEMBRANE

HIGH WIND PARAPET RAKE
CLEAT (F-292)

1¾"-14 x 1¼" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E)
@ 24" O.C.

LOW FLOATING
CLIP (HW-230)

SuperLok® PANEL

MOISTURE BARRIER
(NOT BY Metl-Span)

14-10 x 1" TYPE 'A'
SELF-TAPPER
W/WASHER
(FASTENER #18)
(2) PER CLIP

COUNTERFLASH
(FL-341)

SUPERLOK® PANEL

URETHANE TUBE SEALANT
CONTINUOUS

COUNTERFLASH
(FL-341)

PARAPET RAKE TRIM
(FL-285)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF
FLEXIBLE MEMBRANE

HIGH WIND PARAPET RAKE
CLEAT (F-292)

1¾"-14 x 1¼" LONG-LIFE
SELF-DRILLER W/WASHER
(FASTENER #1E)
@ 24" O.C.

LOW FLOATING
CLIP (HW-230)

SuperLok® PANEL

MOISTURE BARRIER
(NOT BY Metl-Span)

14-10 x 1" TYPE 'A'
SELF-TAPPER
W/WASHER
(FASTENER #18)
(2) PER CLIP
WOOD DECK
FIXED BOX HIGH SIDE EAVE

MOISTURE BARRIER
(NOT BY Metl-Span)

¾" PLYWOOD (MIN.)
(NOT BY Metl-Span)

WOOD BLOCKING
(NOT BY Metl-Span)

SUPERLOK®

OUTSIDE CLOSURE
(HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

¾" PLYWOOD SPACER
(NOT BY Metl-Span)

TRI-BEAD TAPE SEALER
(HW-504)

URETHANE TUBE SEALANT
@ CLOSURE ENDS/PANEL RIB
& LAPPING CLOSURE TABS
TO SEAL ALL VOIDS

½"-14 x ½" LONG-LIFE
SELF DRILLER W/WASHER
(FASTENER #1E) (1) PER RIB

¼"-14 x 1¼" LONG-LIFE
SELF-TAPPER W/WASHER
(FASTENER #18) (4) PER 16" PANEL
(3) PER 12" PANEL

14-10 x 1" TYPE 'A'
SELF-TAPPER W/WASHER
(FASTENER #31) (8) PER PANEL

2" 2"

BUILDING DIM.

SEE metlspan.com FOR CURRENT INFORMATION

SUBJECT TO CHANGE WITHOUT NOTICE
Wood Deck
Parapet Fixed High Side Eave

Details

High Eave Sealant Detail

- **TRI-BEAD TAPE SEALER (HW-504)**
- **HIGH EAVE END OF PANEL**

Building Dim.

- **FIELD SAWCUT**
- **TRI-BEAD TAPE SEALER (HW-504) EA. SIDE OF FLEXIBLE MEMBRANE**
- **URETHANE TAPE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL voids**
- **1/4"-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #11) (1) PER RIB**

Outside Closure
- **(HW-440) @ 16" PANEL**
- **(HW-446) @ 12" PANEL**

Inside Closure
- **MOISTURE BARRIER (NOT BY Metl-Span)**
- **3/8" PLYWOOD (MIN.) (NOT BY Metl-Span)**

High Eave Sealant
- **14-10 x 1" TYPE 'A' SELF-TAPPER W/WASHER (FASTENER #18)**
  - **(4) PER 16" PANEL**
  - **(3) PER 12" PANEL**
- **1/4"-14 x 3/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)**
- **TRI-BEAD TAPE SEALER (HW-504) @ TOP OF CLOSURE & TOP OF FLEXIBLE MEMBRANE**
- **URETHANE TAPE SEALANT (HW-504) EA. SIDE OF FLEXIBLE MEMBRANE**
- **COUNTER FLASH (FL341)**
- **PARAPET HIGH EAVE TRIM (FL-276)**

Moisture Barrier
- **(NOT BY Metl-Span)**

Masonry Wall
- **(NOT BY Metl-Span)**

Subject to change without notice. See metlspan.com for current information.
WOOD DECK
FLOATING VALLEY

NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12
RIGID INSULATION OVER METAL DECK
FLOATING ENDLAP

VIEW “A”

SWAGED ENDLAP TAPE SEALER (HW-515)

1/4"-14 x 5/8" LONG-LIFE TYPE "B" W/ WASHER (FASTENER #46)
(5) PER 16" PANEL
(4) PER 12" PANEL

TRI-BEAD TAPE SEALER
(HW-504) @ 16" PANEL
TRIPLE-BEAD TAPE SEALER
(HW-502) @ 12" PANEL

LOW FLOATING CLIP
(HW-230)

SuperLok® PANEL
(LOWER)

UPPER SWAGED SuperLok® PANEL

BACK-UP PLATE
(HW-7766) 16" PANEL
(HW-7764) 12" PANEL

LOWER SuperLok® PANEL

TRI-BEAD TAPE SEALER
(HW-504) @ 16" PANEL
TRIPLE-BEAD TAPE SEALER
(HW-502) @ 12" PANEL

1/4"-14 x 5/8" LONG-LIFE TYPE "B" SELF-TAPPER W/ WASHER (FASTENER #46)
(5) PER 16" PANEL
(4) PER 12" PANEL

RIGID INSULATION
(NOT BY Metl-Span)

METAL DECK (MIN. 22 GA.)
(NOT BY Metl-Span)

VAPOR BARRIER
(NOT BY Metl-Span)

BEARING PLATE
(HW-7500)

DECK SCREW (2) PER CLIP
(MIN. 3/8" PENETRATION INTO METAL DECK)

1 1/2" 6" 10" 4 1/4"

FASTENER INSTALLATION SEQUENCE

See metlspan.com for current information
Subject to change without notice
RIGID INSULATION OVER METAL DECK
FLOATING EAVE WITH BOX GUTTER

- NON-SKINNING BUTYL SEALANT (HW-549) BETWEEN PANEL RIBS
- BUTYL SEALANT MUST COME IN CONTACT WITH THE DRIP EDGE TO FORM A WEATHERTIGHT SEAL
- FIELD NOTCH PANEL LEGS AND BEND PAN TO FORM OPEN HEM
- BOX GUTTER W/DRIP EDGE (T-5271)
- WALL PANEL THICKNESS
- 1'-0" MAX.
- WALL PANEL SIZE
- 12-14 x 1" PANCAKE HEAD SELF-DRILLER (FASTENER #12A) @ 12" O.C.
- LOW FLOATING CLIP (HW-230)
- DECK SCREW (2) PER CLIP (MIN. 3/4" PENETRATION INTO METAL DECK)
- BEARING PLATE (HW-7500)
- SUPERLOK® PANEL
- RIGID INSULATION (NOT BY Metl-Span)
- VAPOR BARRIER (NOT BY Metl-Span)
- METAL DECK (NOT BY Metl-Span)
- 3" x 5" x 14 GA. BENT PLATE (HOLD TOP LEG 3/8" ABOVE TOP OF INSULATION)
- 12 - 24 x 1 1/2" PAN HEAD TEK 4.5 SELF-DRILLER (FASTENER #16) @ 12" O.C.
- STRUCTURAL ANGLE (NOT BY Metl-Span)
- 1/2" x 5/8" POP RIVET (FASTENER #14) @ EVER OTHER RIB
- BOX GUTTER W/DRIP EDGE (T-5271)
- 12 x 24 x 1 1/4" LONG-LIFE TEK 4.5 W/ WASHER (FASTENER #78)
- BUILDING DIM.

See metlspan.com for current information.

REV 01.01
SL-95
RIGID INSULATION OVER METAL DECK
FLOATING EAVE WITH EAVE TRIM WITH EXTENDED DRIP EDGE

BUTYL SEALANT MUST COME IN CONTACT WITH THE DRIP EDGE TO FORM A WEATHERTIGHT SEAL.

LOW FLOATING CLIP (HW-230)
DECK SCREW (2) PER CLIP (MIN. ¾" PENETRATION INTO METAL DECK)
BEARING PLATE (HW-7500)

12 - 24 x 1 ¼" LONG-LIFE TEK 4.5 WWASHER (FASTENER #78)
¾"-14 x ¾" LONG-LIFE LAPTÉK WWASHER (FASTENER #4) @ 12° O.C.

3" x 5" x 14 GA. BENT PLATE (HOLD TOP OF PLATE ¾" ABOVE TOP OF RIGID INSULATION)
12-24 x 1 ¼" PAN HEAD TEK 4.5 SELF-DRILLER (FASTENER #16) @ 12° O.C.

SUPERLOK® PANEL

PANEL ENGAGEMENT DETAIL

FIELD NOTCH PANEL LEGS AND BEND PAN TO FORM OPEN HEM

EAVE TRIM W/EXTENDED DRIP EDGE (T-5151)

EAVE END OF PANEL

SUPERLOK® PANEL

1 ½" 1 ½" 3/8"

1/8" 1/8"

1 ½"

1 ½"

1/8" 1/8"

1 ½"

1 ½"

1 ½"

1 ½"
RIGID INSULATION OVER METAL DECK
FIXED RIDGE

TRI-BEAD TAPE SEALER (HW-504)
RIDGE END OF PANEL

1/4"-14 x 1 ¾" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (1) PER RIB
TRI-BEAD TAPE SEALER (HW-504)
RIDGE/HIP SUPPORT PLATE (P-145)
SuperLok® PANEL

3" 2" 2"

DECK SCREW @ 12" O.C. (MIN. ¾" PENETRATION INTO METAL DECK)

1/2"-14 x 1 ½" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E)
(4) PER 16" PANEL
(3) PER 12" PANEL
TRI-BEAD TAPE SEALER (HW-504)

RIDGE/SHIP SUPPORT PLATE (P-145)

RIDGE TRIM (FL-209)
URETHANE TUBE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL VOIDS
1/4"-14 x ¾" LONG-LIFE LAPTEK W/WASHER (FASTENER #4)
@ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)
OUTSIDE CLOSURE (HW-440) @ 16" PANEL
(HW-446) @ 12" PANEL

RIGID INSULATION (NOT BY Metl-Span)
VAPOR BARRIER (NOT BY Metl-Span)
METAL DECK (NOT BY Metl-Span)
DETAILS

RIGID INSULATION OVER METAL DECK
FIXED VENTED RIDGE

PERFORATED VENT DRIP (FL-254)
TRI-BEAD TAPE SEALER (HW-504)
URETHANE SEALANT (HW-504)

1" LAP (MIN.)

PERFORATED VENT DRIP (FL-254)

1/4" x 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (1) PER RIB
TRI-BEAD TAPE SEALER (HW-504)

URETHANE SEALANT (HW-504)

RIDGE TRIM (FL-303)

1/4" - 14 x 1/4" LONG LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)
1/4" - 14 x 1/2" LONG LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C.
OUTSIDE CLOSURE (HW-440) @ 16" PANEL (HW-446) @ 12" PANEL

URETHANE TUBE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL VOIDS

RIGID INSULATION (NOT BY Metl-Span)
VAPOR BARRIER (NOT BY Metl-Span)
METAL DECK (NOT BY Metl-Span)

DECK SCREW @ 12" O.C. (MIN. 3/8" PENETRATION INTO METAL DECK)
RIGID INSULATION OVER METAL DECK
BOX RAKE

- TRIBEAD TAPE SEALER (HW-504)
- BOX RAKE TRIM
- LOW RAKE SUPPORT ANGLE (HW-7712)
- 12 x 24 x 1 1/4" PAN HEAD TEK 4.5 SELF-DRILLER (FASTENER #16) @ 12" O.C.
- 12 x 24 x 1 1/4" LONG-LIFE TEK 4.5 W/WASHER (FASTENER #78)
- CONTINUOUS CLEAT (FL-338)
- 1/8" x 3/16" POP RIVET (FASTENER #14) @ 12" O.C.
- OUTSIDE CLOSURE
- WALL PANEL

BUILDING DIM.

1/4" - 14 x 1/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C.

HIGH WIND PARAPET RAKE
CLEAT (F-292)

1/4" - 14 x 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) @ 24" O.C.

FIELD CUT & BEND UP 2" PANEL LEG AS REQUIRED WHEN ENDING OFF MODULE

LOW FLOATING CLIP (HW-230)
BEARING PLATE (HW-7500)

SuperLok® PANEL

RIGID INSULATION (NOT BY Metl-Span)
VAPOR BARRIER (NOT BY Metl-Span)
DECK SCREW (2) PER CLIP (MIN. 3/4" PENETRATION INTO METAL DECK)
METAL DECK (NOT BY Metl-Span)

2 x 4 x 16 GA. ANGLE

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

STRUCTURAL ANGLE (NOT BY Metl-Span)

FIELD CUT & BEND UP 2" PANEL LEG AS REQUIRED WHEN ENDING OFF MODULE

1/4" - 14 x 1/4" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C.
DETAILS

RIGID INSULATION OVER METAL DECK
PARAPET RAKE

SuperLok®

1¼"-14 x 1¼" LONG-LIFE SELF-DRILLER W/WASHER
(FASTENER #1E) @ 24" O.C.

URETHANE TUBE SEALANT CONTINUOUS

COUNTERFLASH (FL-341)

PARAPET RAKE TRIM (FL-285)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

HIGH WIND PARAPET RAKE CLEAT (F-292)

LOW FLOATING CLIP (HW-230)

DECK SCREW @ (2) PER CLIP
(MIN. ¾" PENETRATION INTO METAL DECK)

BEARING PLATE
(HW-7500)

SuperLok® PANEL

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

BEARING PLATE
(HW-7500) @ 24" O.C.

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

TRI-BEAD TAPE SEALER
(HW-504) EA. SIDE OF FLEXIBLE MEMBRANE

FLEXIBLE MEMBRANE

LOW RAKE SUPPORT ANGLE
(HW-7712)

FIELD SAWCUT

14-10 x 2" DECK SCREW
(Fastener #209) @ 24" O.C.
RIGID INSULATION OVER METAL DECK
FIXED BOX HIGH SIDE EAVE

HIGH EAVE SEALANT DETAIL

1/4"-14 x 5/8" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)

TRI-BEAD TAPE SEALER (HW-504)

LOW FIXED EAVE PLATE (HW-7600)

DECK SCREW @ 12" O.C. (MIN. 3/4" PENETRATION INTO METAL DECK)

SuperLok® PANEL

1/4"-14 x 1 1/4" LONG-LIFE SELF-DRILLER W/WASHER (FASTENER #1E) (4) PER 16" PANEL (3) PER 12" PANEL

VAPOR BARRIER (NOT BY Metl-Span)

METAL DECK (NOT BY Metl-Span)

STURCTURAL ANGLE (NOT BY Metl-Span)

URETHANE TUBE SEALANT @ CLOSURE ENDS/PANEL RIB & LAPPING CLOSURE TABS TO SEAL ALL VOIDS

1/4"-14 x 1 1/4" LONG-LIFE SELF DRILLER W/WASHER (FASTENER #1E) (1) PER RIB

OUTSIDE CLOSURE (HW-440) @ 16" PANEL (HW-446) @ 12" PANEL

TRI-BEAD TAPE SEALER (HW-504)

BOX HIGH SIDE EAVE TRIM (FL-331)

1/4"-14 x 5/8" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 12" O.C.

OUTSIDE CLOSURE

12-24 x 1 1/4" LONG-LIFE TEK 4.5 W/WASHER (FASTENER #78)

WALL PANEL
RIGID INSULATION OVER METAL DECK
PARAPET FIXED HIGH SIDE EAVE

High Eave Sealant Detail

Parapet High Eave Trim (FL-276)
1/4"-14 x 3/4" Long-Life Laptek
W/Washer (Fastener #4) @ 6" O.C.
(Do not install thru panel rib)

Tri-Bead Tape Sealer (HW-504)
@ Top of closure & top of flexible membrane

Low Mid-Slope Fixed Plate (HW-7631)

Masonry Wall (not by Metl-Span)

Urethane Tube Sealant Continuous

Counter Flash (FL-341)

Field Sawcut

Tri-Bead Tape Sealer (HW-504) EA. Side of Flexible Membrane

14-10 x 2" Deck Screw (Fastener #209) @ 24" O.C.
(PRE-DRILL HOLE)

Flexible Membrane

Urethane Tube Sealant @ Closure ends/panel rib & lapping closure tabs to seal all voids

1/4"-14 x 11/4" Long-Life Self-Driller W/Washer (Fastener #1E) (1) per rib

Outside Closure
(HW-440) @ 16" panel
(HW-446) @ 12" panel

Tri-Bead Tape Sealer (HW-504)

1/4"-14 x 11/4" Long-Life Self-Driller W/Washer (Fastener #1E)
(4) per 16" panel
(3) per 12" panel

Deck Screw @ 12" O.C.
(Min. 3/4" penetration into metal deck)

Rigid Insulation (not by Metl-Span)

Vapor Barrier (not by Metl-Span)

Metal Deck (not by Metl-Span)
DETAILS

RIGID INSULATION OVER METAL DECK
FLOATING VALLEY

BUTYL SEALANT MUST COME IN CONTACT WITH THE OFFSET CLEAT TO FORM A WEATHERTIGHT SEAL

NOTE: DO NOT USE THIS DETAIL ON ROOF SLOPES LESS THAN 3:12
RIGID INSULATION OVER METAL DECK
FIXED HIP

- DECK SCREW @ 12" O.C. (MIN. ¾" PENETRATION INTO METAL DECK)
- TRI-BEAD TAPE SEALER (HW-504) CONTINUED ACROSS PANEL
- RIGID/HIP SUPPORT PLATE (P-145)
- RIGID/HIP TRIM (FL-209)
- URETHANE TUBE SEALANT @ CLOSURE ENDS (¼" BEAD MIN.)
- ¼"-14 x ½" LONG-LIFE LAPTEK W/WASHER (FASTENER #4) @ 6" O.C. (DO NOT INSTALL THRU PANEL RIB)
- ZEE CLOSURE (FL-361) (FIELD CUT TO LENGTH & BEVEL CUT TO FIT PANEL)

- TRI-BEAD TAPE SEALER (HW-504)

- HIP END OF PANEL

- RIDGE/HIP SUPPORT PLATE (P-145)

- RIGID INSULATION (NOT BY Metl-Span)
- VAPOR BARRIER (NOT BY Metl-Span)
- METAL DECK (NOT BY Metl-Span)