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<td>Vented Ridge (Perforated Vent Drip)</td>
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</table>
The minimum recommended slope for any Image II roofing panel is 3:12.

The recommended substrate is 5/8" plywood with a 30 pound felt moisture barrier. To avoid panel distortion, use a properly aligned and uniform substructure. Please note that Image II panels are not recommended for use over open framing.

Image II panels are available in a 12" and 16" widths with a 1" rib height.

Minimum panel length is 5'-0". Maximum recommended panel length is 30'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult your Metal Sales branch for recommendations (see PGI-2 and 3 for locations).

Image II panels material gauges and finishes vary. Please refer to the Image II brochure/color chart.

Applications include residential and architectural buildings ranging from new construction to retrofit. The term retrofit as applied to construction methods is to replace or rework.

Concealed direct fastening system using Truss Head Woodscrews applied through factory punched fastening slots/groove into wood decking. Fastener spacing is 18" on center, except where extreme wind uplift conditions exist.

The fastener selection guide should be consulted for choosing proper fasteners for specific applications. Quantity and type of fastener must meet necessary loading and code requirements (see PGI-12-13).

Steel, minimum grade 50

- Acrylic Coated Galvalume® (ACG) / ASTM A-792
- Prepainted Galvanized / ASTM A-653
- Fluorocarbon (PVDF)

* Differential appearance of Acrylic Coated Galvalume roofing materials is not a cause for rejection.
** Meets both Kynar 500 and Hylar 5000 specifications.
**IMAGE II FLASHING PROFILES**

**EAVE**

- Length 10'-2" - *Specify Slope Angle

**EXTENDED EAVE**

- Length 10'-2" - *Specify Slope Angle

**CLEAT**

- Length 10'-2"

**OFFSET CLEAT**

- Length 10'-2"

**5K GUTTER**

- Length 20'-6"

**5K GUTTER ENDCAP**

**3" DOWNSPOUT**

- Length 10'-2" - 20'-3"

**3" DOWNSPOUT ELBOW**

**12" DOWNSPOUT BRACKET**

**12" COIL**

*(For Continuous Gutters)*

- 16" Inside Diameter
- Length 150'-0"

**VALLEY**

- Length 10'-2", 20'-3" - *Specify Slope Angle

**IMAGE II RAKE**

- Length 10'-2", 20'-3"

**IMAGE II STEP RAKE**

- Length 10'-2", 20'-3"

**RAKEWALL**

- Length 10'-2"

**IMAGE II STEP RAKE**

- Length 10'-2"

**RAKEWALL**

- Length 10'-2"
### IMAGE II  FLASHING PROFILES (CONT.)

<table>
<thead>
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<th>COUNTER FLASHING</th>
<th>REGLET FLASHING</th>
<th>STEP RIDGE/HIP COVER</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Counter Flashing Diagram" /></td>
<td><img src="image2.png" alt="Reglet Flashing Diagram" /></td>
<td><img src="image3.png" alt="Step Ridge/Hip Cover Diagram" /></td>
</tr>
<tr>
<td><strong>Length 10'-2&quot;</strong></td>
<td><strong>Length 10'-2&quot;</strong></td>
<td><strong>Length 10'-2&quot; - Specify Slope Angle</strong></td>
</tr>
</tbody>
</table>

**13" RIDGE/HIP COVER**

| ![13" Ridge/Hip Cover Diagram](image4.png) |
| **Length 10'-2", 20'-3" - Specify Slope Angle** |

**PITCH BREAK**

| ![Pitch Break Diagram](image5.png) |
| **Length 10'-2" - Specify Slope Angle** |

**PERFORATED VENT DRIP**

| ![Perforated Vent Drip Diagram](image6.png) |
| **.032 Aluminum Linen White Only Length 10'-2"** |

| ![1.5" Sill/Head Diagram](image7.png) |
| **Length 10'-2"** |

**1.5" SILL TO SOFFIT**

| ![1.5" Sill to Soffit Diagram](image8.png) |
| **Length 10'-2"** |

**1" Z-CLOSURE**

| ![1" Z-Closure Diagram](image9.png) |
| **Length 10'-2"** |

C- Indicates color side of flashing.
IMAGE II  ACCESSORY PROFILES

COBRA VENTED CLOSURE

OUTLET TUBE 2" X 3"

FACIA BRACKET

<table>
<thead>
<tr>
<th>TUBE SEALANT</th>
<th>TAPE SEALANT</th>
<th>OUTSIDE CLOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.3 oz. Cartridge Urethane</td>
<td>3/8&quot; X 3/16&quot; X 25' Double Bead Butyl - Gray</td>
<td>36&quot;</td>
</tr>
</tbody>
</table>

RUBBER ROOF JACK

MINI (3/4" to 1 1/4" O.D. Pipe)
#2 (1 1/4" to 3" O.D. Pipe)
#4 (3" to 6" O.D. Pipe)
#6 (6" to 9" O.D. Pipe)
#8 (7" to 13" O.D. Pipe)

TOUCH-UP PAINT

Available in pints PVDF / MS CF30

METAL PANEL HEMMING TOOL
Metal Roof Deck Panels

Metal Sales Manufacturing Corporation has obtained fire resistance ratings for various products conducted according to test criteria set forth by 'Underwriters Laboratories' "Standard Fire Tests of Building Construction and Material" (ANSI/UL 263). This test procedure is identical to ASTM E-119 and NFPA 251.

The fire resistance rating is for the total assembly and not just the external metal panel. Ratings are expressed in hours and vary depending upon the assemblies. In general, the test criteria is to evaluate the assembly's ability to continue to support the superimposed loads and resist the passage of flame, high temperatures, or hot gases which will ignite combustible materials. The test assemblies are identified by an alpha-numeric design number.

For detail information on specific assemblies and hourly ratings see UL Fire Resistance Directory.

METAL SALES MFG CORP
R9697

Mechanically attached metal roof panels - Type "Image II"


*Hat shaped member to be a minimum of 16 gauge. The member will be fastened through the roof insulation to the steel roof deck with min. No. 14 self-drilling and/or self-tapping fasteners. Spacing to be determined by the structural loading requirements. In addition any compressible UL Classified glass fiber blanket insulation with or without a vapor retarder facing may be used between the specified roof insulation and the metal roof panels.

**Bearing plate to be a minimum of 16 gauge. Member will be fastened through the roof insulation to the steel deck with min. No. 14 self-drilling and/or self-tapping fasteners.

See the UL Fire Resistance Directory for explanation of each design number listed above.
1. Theoretical section properties have been calculated per AISI 1996. “Specifications for the design of cold formed steel members.” Ixx and Sxx are effective section properties for deflection and bending.

2. Tabulated loads are allowable loads calculated in accordance with good engineering practices and with AISI 1996 specifications for bending stresses. Gravity Load considers worst of 3 and 4 multiple equal span condition. Panel weight has not been subtracted from allowable gravity loads. Allowable load does not address web crippling requirement, or fasteners/support connection.

3. Allowable wind uplift loads have been increased by 33\% and are based on AISI 1996 “specifications for the Design of Cold Formed Steel Members”. During uplift or suction condition, panel flat will deflect due to upward load changing shape and reducing these loads. Contact Metal Sales Technical Services for ASTM E-1592 uplift design loads.

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

5. Note: Image II is not recommended for open frame construction.
**IMAGE II**  
**DESIGN / INSTALLATION CONSIDERATIONS**

### FASTENER INSTALLATION TECHNIQUE

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

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

<table>
<thead>
<tr>
<th>Correct</th>
<th>Too Loose</th>
<th>Too Tight</th>
</tr>
</thead>
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<tr>
<td>Sealing material slightly visible at edge of metal washer. Assembly is watertight.</td>
<td>Sealing material is not visible; not enough compression to seal properly.</td>
<td>Metal washer deformed; sealing material pressed beyond washer edge.</td>
</tr>
</tbody>
</table>

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

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

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

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

### CONDITION OF SUBSTRUCTURE

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

The installer should check the roof deck for squareness before installing Image II panels. Several methods can be used to verify squareness of the structure for proper installation of the panels.

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

**METHOD "B"** - The 3-4-5 triangle system may also be used. To use this system measure a point from the corner along the edge of the roof at a module of three (3). Measure a point from the same corner along another edge at a module of four (4). Then by measuring diagonally between the two points established, the dimension should be exactly a module of five (5) to have a square corner. Multiple uses of this system may be required to determine building squareness. If the endwall cannot be made square, the roof system cannot be installed as shown in these instructions.
Proper design and installation of vapor barriers and ventilation systems are important to prevent condensation and the resulting problems of moisture damage and loss of insulation efficiency.

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

The underside of the metal roof on a typical Architectural building should be protected from condensation by installing panels directly over a minimum 30 lb moisture barrier and uniform solid substrate. This reduces airspace and the potential of condensation forming on the underside of the panels.

**VENTILATION**

![Ventilation Diagram](image)

Typical metal building (no attic)  
Building with attic or retrofitted

**PANEL APPLICATIONS**

The following chart highlights UL 580 Class 90 for clip installation on the selected applications (see Fastener Selection Guide page PGI-12-14 for other fasteners available). For more information on UL Construction numbers, refer to UL Roofing Materials and System Directories. Panel gauges and clip spacing should be determined by a professional engineer according to the governing building code.

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<tr>
<th>PANEL TYPE</th>
<th>APPLICATION</th>
<th>INSTALLATION REQUIREMENTS</th>
<th>FASTENER SPACING</th>
<th>*TYPE OF FASTENER</th>
<th># REQ.</th>
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<tr>
<td>IMAGE II</td>
<td>OVER 5/8&quot; WOOD DECK AND METAL DECK</td>
<td>Standard 26 GAUGE</td>
<td>18&quot; o.c.</td>
<td>CALL YOUR METAL SALES BRANCH FOR ASTM-E1592 UPLIFT VALUE</td>
<td></td>
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* Subject to project loading, closer fastener spacing may be required. Contact your local Metal Sales branch representative for more information (see pages PGI-12-14). Fastener spacing is based on maximum uplift suction load of 32 psf.
Panel rib must be field notched and flat part of panel must be field bent to accept offset cleat (see Architectural Manual).
IMAGE II  5K GUTTER DETAIL

3:12 Slope Minimum

Image II Panel
Moisture Barrier (by others)
#9-15 x 1" Woodscrew (4 per panel)
Double Bead Tape Sealant
Eave
Fascia Bracket
#9-15 x 1" Woodscrew (1'-0" o.c.)
5K Gutter

CAUTION
Additional screws may be required for high snow loading and steep slopes.

Panel rib must be field notched and flat part of panel must be field bent to accept offset cleat (see Architectural Manual).

IMAGE II  5K GUTTER WITH OFFSET DETAIL

3:12 Slope Minimum

Image II Panel
Moisture Barrier (by others)
#8-18 x 3/4" Truss Head Woodscrew (1'-0" o.c.)
Double Bead Tape Sealant
Tube Sealant
Offset Cleat
Eave
Fascia Bracket
5K Gutter
#9-15 x 1" Woodscrew (1'-0" o.c.)
**SLOPE CHANGE DETAIL**

3:12 Slope Minimum

- Image II Panel
- #8-18 x 3/4" Truss Head Wood screw (1'-0" o.c.)
- Offset Cleat
- Tube Sealant
- Moisture Barrier (by others)
- Pitch Break
- #8-18 x 3/4" Truss Head Wood screw (1'-0" o.c.)
- Double Bead Tape Sealant
- Double Bead Tape Sealant
- 1/16" x 3/16" Pop-Rivet (3 per panel)
- Z-Closure
- Image II Panel

Note: Z-Closures must be field cut and bent to fit between panel ribs (see Architectural Manual).

Panel rib must be field notched and flat part of panel must be field bent to accept offset cleat (see Architectural Manual).

**VALLEY DETAIL**

3:12 Slope Minimum

- Image II Panel
- #9-15 x 1" Wood screw (4 per panel)
- Double Bead Tape Sealant
- Moisture Barrier (by others)
- Valley

Note: Additional screws may be required for high snow loading and steep slopes.
Panel rib must be field notched and flat part of panel must be field bent to accept offset cleat (see Architectural Manual).
**IMAGE II  RAKE WITH Z-CLOSURE DETAIL**

- 1/8" x 3/16" Pop-Rivet (1'-0" o.c.)
- Double Bead Tape Sealant
- Z-Closure
- Image II Panel (field cut and bend)
- #8-18 x 3/4" Truss Head Woodscrew (1'-0" o.c.)
- Rake
- Cleat
- Moisture Barrier (by others)

**IMAGE II  RAKEWALL WITH Z-CLOSURE (COUNTER) DETAIL**

- Tube Sealant
- Fasteners (by others)
- Counter Flashing
- Moisture Barrier (by others)
- Rakewall
- Image II Panel
- Double Bead Tape Sealant
- 1/8" x 3/16" Pop-Rivet (1'-0" o.c.)
- Z-Closure
- #8-18 x 3/4" Truss Head Woodscrew (1'-0" o.c.)

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**IMAGE II**  **RAKEWALL WITH Z-CLOSURE (REGLET) DETAIL**

- Tube Sealant
- Reglet Flashing
- Fasteners (by others)
- Moisture Barrier (by others)
- Rakewall
- Image II Panel
- 1/8" x 3/16" Pop-Rivet (1'-0" o.c.)
- Double Bead Tape Sealant
- Z-Closure
- #8-18 x 3/4" Truss Head Woodscrew (1'-0" o.c.)

**IMAGE II**  **STEP RAKEWALL (COUNTER) DETAIL**

- Tube Sealant
- Fasteners (by others)
- Counter Flashing
- Moisture Barrier (by others)
- Image II Step Rakewall
- Image II Panel
- #9-15 x 1" Woodscrew (1'-0" o.c.)
- Double Bead Tape Sealant
**IMAGE II**

**STEP RAKEWALL (REGLET) DETAIL**

- Tube Sealant
- Reglet Flashing
- Fasteners (by others)
- Moisture Barrier (by others)

- Image II Step Rakewall
- Image II Panel (field cut and bend)
- #9-15 x 1" Woodscrew (1'-0" o.c.)
- Double Bead Tape Sealant

---

**IMAGE II**

**ENDWALL WITH Z-CLOSURE (COUNTER) DETAIL**

- Tube Sealant
- Fasteners (by others)
- Counter Flashing
- Moisture Barrier (by others)
- Pitch Break
- #8-18 x 3/8" Truss Head Woodscrew (4 per panel)
- Tube Sealant
- Double Bead Tape Sealant
- 1/8" x 5/16" Pop-Rivet (3 per panel)
- Z-Closure
- Image II Panel

---

**NOTE:**
Z-Closures must be field cut and bent to fit between panel ribs (see Architectural Manual).
Note: Z-Closures must be field cut and bent to fit between panel ribs (see Architectural Manual).

CAUTION
Additional screws may be required for high snow loading and steep slopes.

CAUTION
Additional screws may be required for high snow loading and steep slopes.

Note: Z-Closures must be field cut and bent to fit between panel ribs (see Architectural Manual).
**IMAGE II ENDWALL WITH FOAM-CLOSURE (REGLET) DETAIL**

3:12 Slope Minimum

- Tube Sealant
- Fasteners (by others)
- Reglet Flashing
- Moisture Barrier (by others)
- Pitch Break
- 1/8" x 3/16" Pop-Rivet (every rib)
- Double Bead Tape Sealant
- Image II Outside Closure
- Double Bead Tape Sealant
- Image II Panel

**IMAGE II PEAK WITH Z-CLOSURE DETAIL**

3:12 Slope Minimum

- Image II Panel
- 1/8" x 3/16" Pop-Rivet (3 per panel)
- Double Bead Tape Sealant
- Tube Sealant
- #8-18 x 3/4" Truss Head Woodscrew (4 per panel)
- Z-Closure
- Moisture Barrier (by others)
- Peak

- #8-18 x 3/4" Truss Head Woodscrew (1'-0" o.c.)
- Cleat

---

**CAUTION**

Additional screws may be required for high snow loading and steep slopes.

**Note:** Z-Closures must be field cut and bent to fit between panel ribs (see Architectural Manual).
### IMAGE II PEAK WITH FOAM-CLOSURE DETAIL

- **3:12 Slope Minimum**
- Image II Panel
- 1/8" x 3/16" Pop-Rivet (every rib)
- Double Bead Tape Sealant
- Image II Outside Closure
- Double Bead Tape Sealant
- Moisture Barrier (by others)
- Peak
- #8-18 x 3/4" Truss Head Woodscrew (1'-0" o.c.)
- Cleat

**CAUTION**
Additional screws may be required for high snow loading and steep slopes.

**Note:** Z-Closures must be field cut and bent to fit between panel ribs (see Architectural Manual).

---

### IMAGE II RIDGE/HIP COVER DETAIL

- **3:12 Slope Minimum**
- Image II Panel
- 1/8" x 3/16" Pop-Rivet (3 per panel)
- Double Bead Tape Sealant
- Z-Closure
- Tube Sealant
- #8-18 x 3/4" Truss Head Woodscrew (4 per panel)
- Double Bead Tape Sealant
- 10" Step Ridge/Hip Cover
- Moisture Barrier (by others)

**CAUTION**
Additional screws may be required for high snow loading and steep slopes.
**IMAGE II**

**VENTED RIDGE (COBRA VENT) DETAIL**

- Image II Panel
- 1/8" x 3/16" Pop-Rivet (every rib)
- Cobra Vented Closure
- 13" Step Ridge/Hip Cover
- Double Bead Tape Sealant
- Moisture Barrier (by others)

**CAUTION**
Additional screws may be required for high snow loading and steep slopes.

**IMAGE II**

**VENTED RIDGE (PERFORATED VENT DRIP) DETAIL**

- Image II Panel
- 1/8" x 3/16" Pop-Rivet (1'-0" o.c.)
- Perforated Vent Drip
- 13" Step Ridge/Hip Cover
- 1/8" x 3/16" Pop-Rivet (every rib)
- Image II Outside Closure
- Moisture Barrier (by others)

**CAUTION**
Additional screws may be required for high snow loading and steep slopes.