Finishes: PVDF and Acrylic-Coated Galvalume®
Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
AZ50 per ASTM A 792 for painted Galvalume®
G90 per ASTM A 653 for Galvanized
Gauges: 24 ga standard; 22 ga optional
24" or 18" panel coverage, 2\(\frac{11}{16}\)" rib height
Panel Length: Minimum: 5'; Maximum: 45' recommended
Structural trapezoidal standing seam roof system
Pittsburgh double flat locking mechanically-seamed side lap
Factory-applied side lap sealant in panel and clip
Minimum roof slope: \(\frac{1}{4}:12\)
Panels can be factory-notched and punched
Accommodates \(\frac{1}{2}"\) to 6" blanket insulation

UL 2218 Impact Resistance - Class 4
UL 790 Fire Resistance Rating - Class A, per building code
UL 263 Fire Resistance Rating - per assembly
ASTM E 283 Air Leakage - 0.06 cfm/ft\(^2\) at 6.24 psf
ASTM E 331 Water Penetration - none at 6.24 psf
ASTM E 1680 Air Leakage - 0.0011 cfm/ft\(^2\) at 6.24 psf
ASTM E 1646 Water Penetration - none at 12 psf
ASTM E 1592 Structural Performance
UL 580 Uplift Resistance - Class 90 Constructions: #197 and #197A
FM 4471 Roof Approval - Class 1-90 and 1-165
2017 FBC Approvals - FL10999.8 and FL10999.9
**FASTENING INFORMATION**

▶ **Clips**
- Clip spacing is based upon the design loads, the spanning capacity of the panels, the fasteners and the support members.
- Clip Tabs are 0.037" thick, G90. Clip base is 0.060" thick, G60.
- Floating Clips can accommodate 1-1/2" of thermal movement each way.

▶ **Fasteners**
- Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material.
  - Clip Fasteners:
    - Attaching to Wood: #10-12 Pancake Head Wood Screw
    - Attaching to Steel:
      - <18 ga: 1/4"-14 Deck Screw
      - >=18 ga, <=12 ga: 1/4"-14 Driller, No Washer
      - >12 ga: 1/4"-24 Driller, No Washer
  - Exposed End Fasteners:
    - At Eave Plate or Compression Plate: #12-14 XL Driller
  - Concealed End Fasteners:
    - At Compression Plate: #12-14 Driller, No Washer
  - Trim Fasteners:
    - 1/4"-14 x 7/8" XL Stitch Screw

**SECTION PROPERTIES**

<table>
<thead>
<tr>
<th>Ga</th>
<th>Width in</th>
<th>Yield ksi</th>
<th>Weight psf</th>
<th>Top In Compression</th>
<th>Bottom In Compression</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ixx in²/ft</td>
<td>Sxx in²/ft</td>
</tr>
<tr>
<td>24</td>
<td>24</td>
<td>50</td>
<td>1.09</td>
<td>0.2055</td>
<td>0.0952</td>
</tr>
<tr>
<td>24*</td>
<td>24</td>
<td>50</td>
<td>1.09</td>
<td>0.2055</td>
<td>0.0952</td>
</tr>
<tr>
<td>24</td>
<td>18</td>
<td>50</td>
<td>1.15</td>
<td>0.2480</td>
<td>0.1221</td>
</tr>
<tr>
<td>24*</td>
<td>18</td>
<td>50</td>
<td>1.15</td>
<td>0.2480</td>
<td>0.1221</td>
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<tr>
<td>22</td>
<td>24</td>
<td>50</td>
<td>1.43</td>
<td>0.2725</td>
<td>0.1263</td>
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**ALLOWABLE UNIFORM LOADS, psf**

For various clip spacings

<table>
<thead>
<tr>
<th>Inward Load</th>
<th>Outward Load</th>
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<tbody>
<tr>
<td>2'</td>
<td>2.5'</td>
</tr>
<tr>
<td>342</td>
<td>227</td>
</tr>
<tr>
<td>342</td>
<td>227</td>
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<tr>
<td>455</td>
<td>302</td>
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<td>455</td>
<td>302</td>
</tr>
<tr>
<td>458</td>
<td>305</td>
</tr>
</tbody>
</table>

1. Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. Panel weight is not considered.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase for wind.