FACTORY MUTUAL GLOBAL
Approval of PBR™ Standing Seam Roof Systems as Class 1 Panel Roof

MBCI

Trade Name: PBR Through Fastened Roof System.
Size: 22-ga. (0.0299 in., 0.76mm) or 24-ga. (0.0240 in., 0.61 mm) steel panels, max. 36 in. (991 mm) wide coated with Signature 200 or 300 paint or Galvalume.
Supports: Min. 16-ga. (0.0598 in., 1.5 mm) steel supporting members.
Application: Secured as described below to structural supports min. 16-ga. (0.0598 in., 1.5 mm) to max 12-ga. (0.1046 in., 2.7 mm). A min. length on ½ in. (13 mm) of threaded portion of screw must penetrate underside of purlin.
Optional Insulation: Max. 6 in. (152 mm) vinyl faced glass fiber blanket insulation, (max supporting members spacing 5 ft. (1.5 m) o.c., placed between the roof panels and the supporting member.
Hail Rating: Class 1-SH.
ASTM E 108: Class A noncombustible deck at max. 5 in 12 slope.

Construction #1: PBR Roof Panels, min. 24-ga. (0.0240 in., 0.61 mm), max. 36 in. (991 mm) wide are secured to min. 16-ga. (0.0598 in., 1.5 mm) steel supporting members, spaced a max. 5 ft. (1.5 m) o.c., with ¼-14 1 ¼" ZAC. Panels are secured to 0.0598 to 0.10 in. (1.5 to 2.5 mm) thick steel supports using ¼-14 x 1 ¼" fasteners applied on one side of each of the panels major ribs spaced at 12” o.c. Max 6 in. (152 mm) vinyl-faced fiberglass batt insulation is optional.
Meets Class 1-135, RoofNav Assembly Number – 160514-0-0.

Construction #2: PBR Roof Panels, min. 24-ga. (0.0240 in., 0.61 mm), max. 36 in. (991 mm) wide are secured to min. 16-ga. (0.0598 in., 1.5 mm) steel supporting members, spaced a max. 5 ft. (1.5 m) o.c., with ¼-14 1 ¼" ZAC. Panels are secured to 0.0598 to 0.10 in. (1.5 to 2.5 mm) thick steel supports using ¼-14 x 1 ¼" fasteners applied on each side of the panels major ribs spaced at 5’-7”-5’-7”-5’-7” resulting in 6 screws per panels. Max 6 in. (152 mm) vinyl-faced fiberglass batt insulation is optional.
Meets Class 1-165, RoofNav Assembly Number – 161355-0-0.
<table>
<thead>
<tr>
<th>RATING</th>
<th>PROFILE</th>
<th>WIDTH (IN)</th>
<th>GAUGE</th>
<th>PURLIN SPACING (FT)</th>
<th>PURLIN GA.</th>
<th>FASTENER TYPE</th>
<th>NUMBER OF FASTENERS</th>
<th>CLIP</th>
<th>WIND CLAMPS PER CLIP</th>
<th>STITCH FASTENER</th>
<th>STITCH FASTENER SPACING</th>
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<tbody>
<tr>
<td>1–135</td>
<td>PBR</td>
<td>36</td>
<td>24</td>
<td>5”-3 1/4”</td>
<td>16</td>
<td>1/4-14 X 1 1/4 ZAC&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
<td>n/a</td>
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<td>1/4-14 X 1/4 ZAC&lt;sup&gt;2&lt;/sup&gt;</td>
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</tbody>
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**Notes:**

1. All roofs are Class 4471
2. Fastener #1E
3. Fastener #4