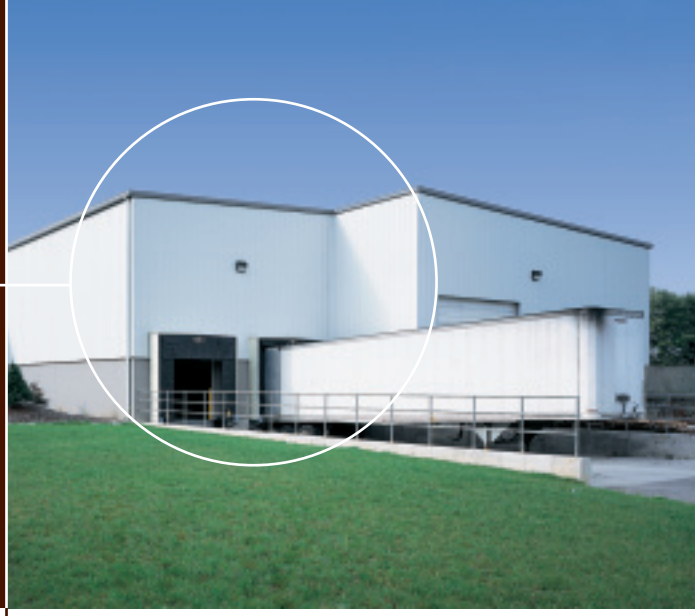
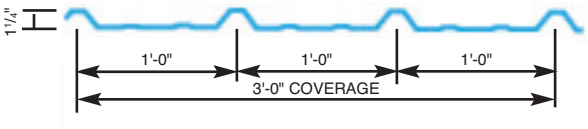
# PBR



| FEATURE | BENEFIT |
|---|---|
| 1 Reverse rolled profile | 1 The panel can serve as an alternate wall panel by putting the paint finish on the under side. |
| 2 Purlin bearing leg | 2 An additional leg is rolled on one side of lap rib to facilitate installation |
| 3 Installation may start at either end | 3 Flexible installation |
| 4 Economical profile | 4 Cost effective |
| 5 36" coverage | 5 Ease of installation |
| 6 Wind uplift rating | 6 The panel qualifies for UL90 in multiple construction numbers. |
| 7 Diaphragm action | 7 The panel configuration enhances diaphragm capabilities for purlin stability. |
| 8 Light transmitting panels | 8 Profile light transmitting panels are available for the PBR panel. |
| 9 Finish warranty | 9 Used with long-life fasteners this panel has a 25-year warranty. |




## PRODUCT DESCRIPTION

**Description:**
This panel is used for the roof and walls. The "PBR" panel's deep ribs create an even-shadowed appearance. The area between the ribs is reinforced.

**Gauge:**
26 and 24.

**Lengths:**
45' maximum is standard, but longer lengths are available as special requests.

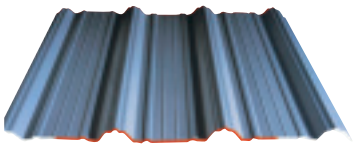
**Dimensions:**
36" coverage x 1 1/4" deep

**Fasteners:**
Standard coated, CAD plated or zinc-aluminum cast head screw

**Finish:**
Galvalume Plus® and Signature® Series.

**Usage:**
Roof, wall, liner, mansard and soffit panel applications

**Limitations:**
1/2:12 pitch or greater. Not designed for coverage over bar joist.



Ceco Building Systems
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# PBR

## ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

26 GAUGE (FY = 60 KSI)

| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| SINGLE | NEGATIVE WIND LOAD | 136.0 | 76.5 | 49.0 | 34.0 | 25.0 | 19.1 | 15.1 |
| | LIVE LOAD/DEFLECTION | 99.1 | 50.4 | 25.8 | 14.9 | 9.4 | 6.3 | 4.4 |
| 2-SPAN | NEGATIVE WIND LOAD | 99.1 | 55.7 | 35.7 | 24.8 | 18.2 | 13.9 | 11.0 |
| | LIVE LOAD/DEFLECTION | 87.3 | 54.6 | 35.2 | 24.5 | 18.1 | 13.9 | 10.7 |
| 3-SPAN | NEGATIVE WIND LOAD | 123.8 | 69.7 | 44.6 | 31.0 | 22.7 | 17.4 | 13.8 |
| | LIVE LOAD/DEFLECTION | 99.2 | 67.7 | 43.8 | 28.2 | 17.7 | 11.9 | 8.3 |
| 4-SPAN | NEGATIVE WIND LOAD | 115.6 | 65.0 | 41.6 | 28.9 | 21.2 | 16.3 | 12.8 |
| | LIVE LOAD/DEFLECTION | 95.5 | 63.4 | 40.9 | 28.6 | 18.8 | 12.6 | 8.9 |

24 GAUGE (FY = 60 KSI)

| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| SINGLE | NEGATIVE WIND LOAD | 162.6 | 91.5 | 58.5 | 40.7 | 29.9 | 22.9 | 18.1 |
| | LIVE LOAD/DEFLECTION | 115.5 | 65.0 | 35.4 | 20.5 | 12.9 | 8.6 | 6.1 |
| 2-SPAN | NEGATIVE WIND LOAD | 115.5 | 65.0 | 41.6 | 28.9 | 21.2 | 16.2 | 12.8 |
| | LIVE LOAD/DEFLECTION | 109.4 | 64.2 | 41.3 | 28.7 | 21.1 | 16.2 | 12.8 |
| 3-SPAN | NEGATIVE WIND LOAD | 144.4 | 81.2 | 52.0 | 36.1 | 26.5 | 20.3 | 16.0 |
| | LIVE LOAD/DEFLECTION | 124.3 | 79.8 | 51.4 | 35.8 | 26.4 | 16.3 | 11.4 |
| 4-SPAN | NEGATIVE WIND LOAD | 134.8 | 75.8 | 48.5 | 33.7 | 24.8 | 19.0 | 15.0 |
| | LIVE LOAD/DEFLECTION | 119.6 | 74.7 | 48.1 | 33.5 | 24.6 | 17.3 | 12.2 |

## SECTION PROPERTIES

| | | | NEGATIVE BENDING | | | POSITIVE BENDING | | |
|---|---|---|---|---|---|---|---|---|
| PANEL GAUGE | **Fy** (ksi) | **WEIGHT** (psf) | **Ixe** ($in.^4/ft.$) | **Sxe** ($in.^3/ft.$) | **Maxo** (kip-in.) | **Ixe** ($in.^4/ft.$) | **Sxe** ($in.^3/ft.$) | **Maxo** (kip-in.) |
| 29 | 60* | 0.75 | 0.0219 | 0.0357 | 1.2835 | 0.0242 | 0.0234 | 0.8423 |
| 26 | 60* | 0.94 | 0.0302 | 0.0511 | 1.8366 | 0.0369 | 0.0372 | 1.3373 |
| 24 | 50 | 1.14 | 0.0404 | 0.0733 | 2.1953 | 0.0506 | 0.0521 | 1.5594 |

* Fy is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.



NOTES:

1 Allowable loads are based on uniform span lengths and Fy = 50 and 60 ksi.

2 LIVE LOAD is limited by bending, shear, combined shear and bending and web crippling.

3 NEGATIVE WIND LOAD does not contain a 33.333% increase and does not consider fastener pull-out or pull-over.

4 Above loads consider a maximum deflection ratio of L/180.

5 The weight of the panel has not been deducted from the allowable loads.

6 The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all data.

NOTES:

1 All calculations for the properties of **PBR** panels are calculated in accordance with the 2001 edition of the *North American Specification For Design Of Cold-Formed Steel Structural Members*.

2 **Ixe** is for deflection determination.

3 **Sxe** is for bending.

4 **Maxo** is allowable bending moment.

5 All values are for one foot of panel width.

The 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 Design Of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This specification contains the design criteria for cold-formed steel components. Along with the specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

Exceeding Expectations

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