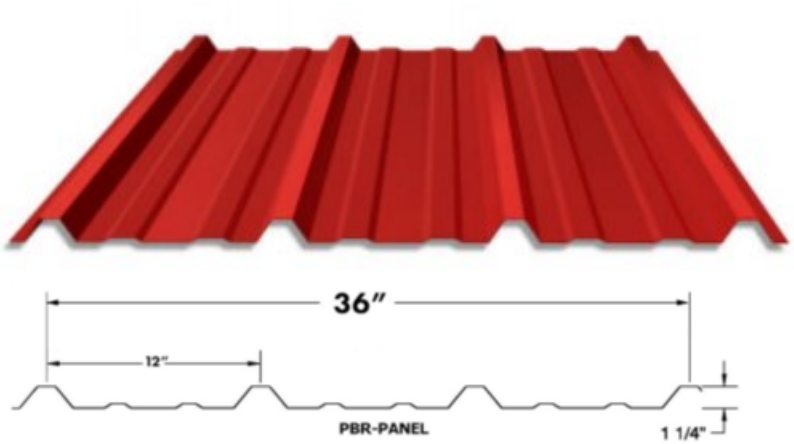
# PREMIER PBR PANEL METAL PANEL SYSTEMS

Premier PBR Panel is a structural panel exposed fastener panel that can be used for both roof and wall applications. The minimum roof slope for PBR is ½:12.




- Available in 26 and 24 gauge grade 50 Galvalume.
- SMP paint finish w/30 year warranty in 26 ga.
- Kynar 500 finish w/35 year warranty for 24 ga.
- 39" wide panel with 36" coverage.
- 1-1/4" overall thickness, 4 ribs @ 12" o.c. and two minor ribs in-between.
- Lengths available in 1" increments, 2'-0" min. up to 40'-0" max.
- Weight per lineal foot: 26 ga. 3.08 lbs., 24 ga. 3.60 lbs.
- Max skid weight is 2000 lbs. (26 ga. 650 lf., 24 ga. 555 lf.).

**PBR Roof Panel**
**ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT**

| 26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi | | | | |
|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | |
| | | 3.0 | 4.0 | 5.0 |
| 1-span | NEGATIVE WIND LOAD | 133.48 | 75.08 | 48.05 |
| | LIVE LOAD/DEFLECTION | 119.08 | 52.22 | 26.74 |
| 2-span | NEGATIVE WIND LOAD | 114.41 | 66.59 | 43.33 |
| | LIVE LOAD/DEFLECTION | 105.60 | 71.09 | 46.37 |
| 3-span | NEGATIVE WIND LOAD | 138.49 | 81.62 | 53.46 |
| | LIVE LOAD/DEFLECTION | 120.00 | 86.91 | 57.11 |
| 4-span | NEGATIVE WIND LOAD | 130.70 | 76.70 | 50.12 |
| | LIVE LOAD/DEFLECTION | 115.50 | 81.75 | 53.58 |

| 24 Gauge (0.0223"), Fy = 50 ksi, Fu = 60 ksi | | | | |
|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | |
| | | 3.0 | 4.0 | 5.0 |
| 1-span | NEGATIVE WIND LOAD | 126.37 | 71.08 | 45.49 |
| | LIVE LOAD/DEFLECTION | 125.69 | 70.70 | 38.51 |
| 2-span | NEGATIVE WIND LOAD | 120.59 | 69.04 | 44.56 |
| | LIVE LOAD/DEFLECTION | 117.33 | 69.40 | 44.80 |
| 3-span | NEGATIVE WIND LOAD | 148.17 | 85.44 | 55.34 |
| | LIVE LOAD/DEFLECTION | 133.33 | 85.87 | 55.62 |
| 4-span | NEGATIVE WIND LOAD | 139.13 | 80.03 | 51.77 |
| | LIVE LOAD/DEFLECTION | 128.33 | 80.43 | 52.04 |

Notes:
1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. LIVE LOAD/DEFLECTION 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.
4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.

**PBR Wall Panel**
**ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT**

| 26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi | | | | |
|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | |
| | | 3.0 | 4.0 | 5.0 |
| 1-span | NEGATIVE WIND LOAD | 133.48 | 75.08 | 48.05 |
| | LIVE LOAD/DEFLECTION | 119.08 | 69.83 | 44.69 |
| 2-span | NEGATIVE WIND LOAD | 114.41 | 66.59 | 43.33 |
| | LIVE LOAD/DEFLECTION | 105.60 | 71.09 | 46.37 |
| 3-span | NEGATIVE WIND LOAD | 138.49 | 81.62 | 53.46 |
| | LIVE LOAD/DEFLECTION | 120.00 | 86.91 | 57.11 |
| 4-span | NEGATIVE WIND LOAD | 130.70 | 76.70 | 50.12 |
| | LIVE LOAD/DEFLECTION | 115.50 | 81.75 | 53.58 |

| 24 Gauge (0.0223"), Fy = 50 ksi, Fu = 60 ksi | | | | |
|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | |
| | | 3.0 | 4.0 | 5.0 |
| 1-span | NEGATIVE WIND LOAD | 126.37 | 71.08 | 45.49 |
| | LIVE LOAD/DEFLECTION | 125.69 | 70.70 | 45.25 |
| 2-span | NEGATIVE WIND LOAD | 120.59 | 69.04 | 44.56 |
| | LIVE LOAD/DEFLECTION | 117.33 | 69.40 | 44.80 |
| 3-span | NEGATIVE WIND LOAD | 148.17 | 85.44 | 55.34 |
| | LIVE LOAD/DEFLECTION | 133.33 | 85.87 | 55.62 |
| 4-span | NEGATIVE WIND LOAD | 139.13 | 80.03 | 51.77 |
| | LIVE LOAD/DEFLECTION | 128.33 | 80.43 | 52.04 |

Notes:
1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. LIVE LOAD/DEFLECTION 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/60 under 10-year wind loading.
4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.

| 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.) |
| 26 | 60* | 0.94 | 0.0309 | 0.0449 | 1.8019 | 0.0382 | 0.0381 | 1.6759 |
| 24 | 50 | 1.14 | 0.0420 | 0.0570 | 1.7060 | 0.0551 | 0.0567 | 1.6968 |

* Fy is 80-ksi reduced to 60-ksi in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

NOTES:
1. All calculations for the properties of PBR Roof panels are calculated in accordance with the 2012 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.

METAL Panel Systems
Architectural Sheet Metal