



R & M STEEL CO

P.O. Box 580
Caldwell, Idaho 83606

Phone: 1-208-454-1800

Toll Free: 1-866-454-1800

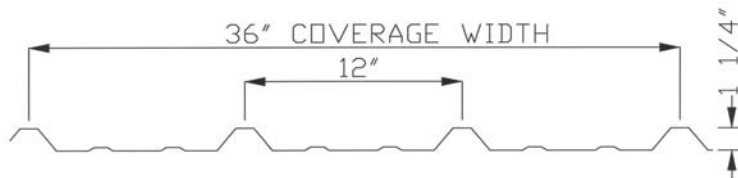
Fax: 1-208-454-1801

Toll Free: 1-866-454-1801

Email: sales.rmsteel@gmail.com

STEEL BUILDING COMPONENTS

PBR-36



Material Specifications

Paint Finish: CERAM-A-STAR™ 1050
40-year SMP Paint System

Yield Strength: 80 KSI

Galvanized Steel: 26-gauge

Description

PBR-36 is a 36" net coverage steel panel with 1-1/4" high rib at 12" on-center. This panel is designed for application on roof or wall sub-structural members typically at 5' on-center.



STEEL BUILDING COMPONENTS

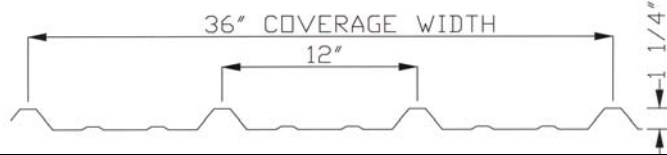
PANEL PROFILES

Thank you for your business.
To place an order, you may:

Phone: 1-208-454-1800 Toll Free: 1-866-454-1800
Fax: 1-208-454-1801 Toll Free: 1-866-454-1801
Email: sales.rmsteel@gmail.com

PBR-36

Notes on Section Properties and Load Table



- Section properties and allowables are calculated in accordance with 1996 AISI Specifications.
- I +/- is for deflection determination.
- S +/- is for bending determination.
- M_a is allowable bending moment.
- All values are for one foot of panel width.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable outward loads based on stress have been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel.
- Minimum bearing length must be checked.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.
- Theoretical allowable loads are based on uniform span lengths.
- LL (S) is allowable live load based on stress limitation of $L/180$.
- WL is allowable wind load and has been increased by 33-1/3%.

Section Properties 36" Wide, R & M STEEL CO PBR-36									
Gauge	Thickness (in.)	Weight (psf)	Yield Stress (ksi)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I_{xx}	S_{xx}	M_a	I_{xx}	S_{xx}	M_a
				In ⁴ /ft.	In ³ /ft.	In.kips/ft.	In ⁴ /ft.	In ³ /ft.	In.kips/ft.
29	.015	.736	80.0	.030	.030	1.065	.035	.042	1.496
26	.019	.932	80.0	.044	.044	1.589	.046	.054	1.925
24	.024	1.176	80.0	.063	.065	1.941	.063	.069	2.070

Span (ft.)	Single Span Condition								
	29-Gauge & 80 ksi			26-Gauge & 80 ksi			24-Gauge & 80 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	79	79	147	118	118	190			
4	44	41	83	66	60	107			
5	28	21	53	42	31	68			
6	20	12	37	29	18	47			
7	14	8	27	22	11	35			
8	11	5	21	17	7	27			
9	9	4	16	13	5	21			
10	7	3	13	11	4	17			

Span (ft.)	Two Span Condition								
	29-Gauge & 80 ksi			26-Gauge & 80 ksi			24-Gauge & 80 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	111	111	105	143	143	157			
4	62	53	59	80	78	88			
5	40	27	38	51	40	56			
6	28	16	26	36	23	39			
7	20	10	19	26	14	29			
8	16	7	15	20	10	22			
9	12	5	12	16	7	17			
10	10	3	9	13	5	14			

Span (ft.)	Three or More Span Condition								
	29-Gauge & 80 ksi			26-Gauge & 80 ksi			24-Gauge & 80 ksi		
	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)	LL (S) (psf)	LL (D) (psf)	WL (psf)
3	126	126	123	167	167	183			
4	71	71	69	94	94	103			
5	46	40	44	60	58	66			
6	32	23	31	42	33	46			
7	23	14	23	31	21	34			
8	18	10	17	23	14	26			
9	14	7	14	19	10	20			
10	11	5	11	15	7	16			



R & M STEEL CO

P.O. Box 580
Caldwell, Idaho 83606

Phone: 1-208-454-1800

Toll Free: 1-866-454-1800

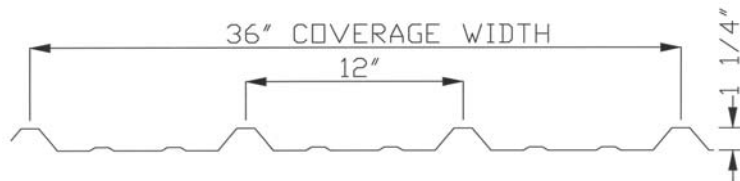
Fax: 1-208-454-1801

Toll Free: 1-866-454-1801

Email: sales.rmsteel@gmail.com

STEEL BUILDING COMPONENTS

PBR-36



PBR-36 is a 36" net coverage, thru-fastener panel.

