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R- and PBR-Panel

The R- and PBR- Panels are excellent light-duty roofing and siding panels, allowing for maximum spans in roof and wall application due to 12" rib spacing.

Features:

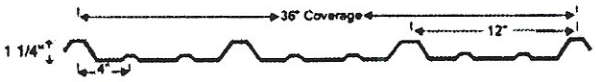
- Available in 36" coverage with 1 1/4" high ribs.
- Ideal for self-storage, commercial/industrial wall applications, equipment screens, agricultural and residential construction.
- Purlin bearing leg option for roofing application.
- Reversed run profiles for wall applications make an attractive shadow panel.
- R-panel is available in a wide variety of colors and finishes.
- Matching Galvalume® pre-painted finishes are available for flashing and flat stock.
- Color match fasteners are self-sealing and available for wood and steel applications.
- Panel lengths up to 65 feet are available to minimize laps at no extra charge.
- Galvalume® warranty 25 years and pre-painted material warranty 30 years.

Panel Section Properties

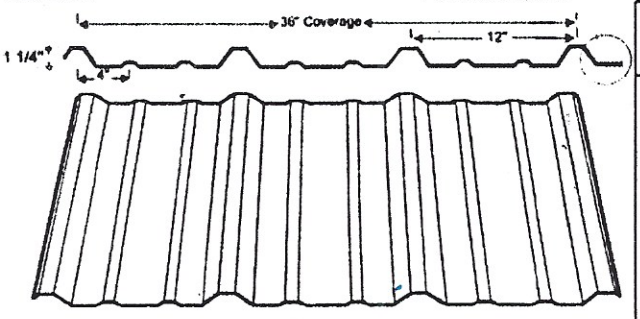
GA.	THICK	Fy	WT	TOP IN COMPRESSION Ix (in4/ft)	Sx (in3/ft)	Ma (in-k/ft)	BOTTOM IN COMPRESSION Ix (in4/ft)	Sx (in3/ft)	Ma (in-k/ft)
26	0.0179	80	0.87	0.0388	0.0336	1.21	0.0354	0.0391	1.40
24	0.0239	50	1.16	0.0546	0.0519	1.55	0.0526	0.0546	1.63

NOTES:
1. Values are based on the American Iron and Steel Institute (AISI) *"Specification for the Design of Cold-Formed Steel Structural Members"* (1986 Edition, with 1989 Addendum).
2. Ix is for deflection determination.
3. Sx is for bending.
4. Ma is allowable bending movement.
5. All values are for one foot of panel width.

R-Panel



PBR-Panel Purlin Bearing Leg



Allowable Span (Ft.)

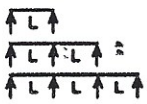
Panel Gauge	Span Condition		DEAD + LIVE LOADING LOAD (PSF) 20	30	40	50	WIND UPLIFT LOADING LOAD (PSF) 20	30	40	50
26	SS	f	6.2	5.1	4.4	4.0	8.1	6.5	5.6	5.0
		L/180	5.5	4.8	4.4	4.1	5.4	4.7	4.3	4.0
	DS	f	6.7	5.5	4.8	4.3	8.1	6.5	5.6	5.0
		L/180	5.5	4.8	4.4	4.1	5.4	4.7	4.3	4.0
	TS	f	7.2	6.0	5.2	4.6	8.1	6.6	5.7	5.1
		L/180	6.7	5.9	5.3	5.0	6.7	5.9	5.3	5.0
24	SS	f	7.0	5.8	5.0	4.5	8.8	7.1	6.1	5.5
		L/180	6.2	5.4	4.9	4.6	6.1	5.4	4.9	4.5
	DS	f	7.2	5.9	5.1	4.6	8.6	6.9	6.0	5.3
		L/180	8.3	7.2	6.6	6.1	8.3	7.2	6.6	6.1
	TS	f	7.8	6.4	5.6	5.0	9.3	7.5	6.4	5.7
		L/180	7.6	6.7	6.0	5.6	7.6	6.7	6.0	5.6

Loading Table Legend

f - Load limited by flexural bending stress
L - Span
L/xxx - Load limited by deflection

Support TYP

SS - Single Span
DS - Double Span
TS - Triple Span or more



Allowable Load (PSF)

Panel Gauge	Span Condition		DEAD + LIE LOADING SPAN 4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	WIND UPLIFT LOADING SPAN 4'-0"	5'-0"	6'-0"	7'-0"	8'-0"
26	SS	f	49	31	21	16	12	79	51	36	26	20
		L/180	53	27	16	10	7	48	25	14	9	6
	DS	f	58	37	25	18	14	48	25	14	9	6
		L/180	122	62	36	23	15	68	44	31	23	18
	TS	f	67	43	30	21	16	79	51	36	26	20
		L/180	96	49	28	18	12	96	49	28	18	12
24	SS	f	64	40	28	20	15	92	59	42	31	24
		L/180	74	38	22	14	9	72	37	21	13	9
	DS	f	67	42	29	21	16	87	56	40	29	23
		L/180	176	90	52	33	22	176	90	52	33	22
	TS	f	78	50	34	25	19	102	66	46	34	26
		L/180	138	71	41	26	17	138	71	41	26	17

NOTES:
1. 26 GA steel conforms to ASTM A792 Grace E (Fy = 80 ksi).
2. 24 GA steel conforms to ASTM A792 Grace D (Fy = 50 ksi).
3. Values are based on the American Iron and Steel Institute (AISI) *"Specification for the Design of Cold-Formed Steel Structural Members"* (1986 Edition, with 1989 Addendum)
4. For wind loading, allowable stresses (right) have been increased 33 1/3%.
5. Properties and load tables are for the panel alone. The capacity of fasteners is not included.
6. Load table values do not include web crippling requirements.