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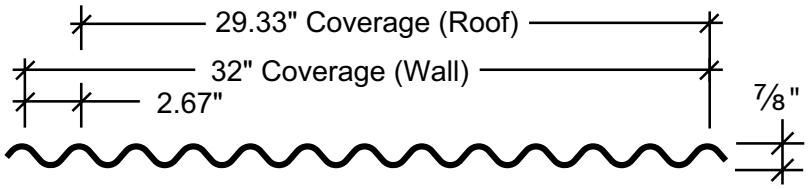
MBCI®
Metal Roof and Wall Systems

Commercial/Industrial PRODUCT INFORMATION

RUSTIC C PANEL



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
22	33	1.62	0.0375	0.0832	1.3980	0.0375	0.0832	1.3980

* Panels are made from 33 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 33 ksi.

NOTES:
1. All calculations for the properties of PBC 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.

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PRODUCT INFORMATION Commercial/Industrial

RUSTIC C ROOF PANEL
ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

22 Gauge								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	103.53	58.24	37.27	25.88	19.02	14.56	11.50
	LIVE LOAD/DEFLECTION	103.53	51.24	26.23	15.18	9.56	6.40	4.50
2-span	NEGATIVE WIND LOAD	101.72	57.66	37.03	25.77	18.95	14.52	11.48
	LIVE LOAD/DEFLECTION	101.72	57.66	37.03	25.77	18.95	14.52	10.84
3-span	NEGATIVE WIND LOAD	126.19	71.76	46.16	32.15	23.66	18.13	14.34
	LIVE LOAD/DEFLECTION	126.19	71.76	46.16	28.65	18.04	12.09	8.49
4-span	NEGATIVE WIND LOAD	118.09	67.08	43.13	30.02	22.09	16.93	13.39
	LIVE LOAD/DEFLECTION	118.09	67.08	43.13	30.02	19.15	12.83	9.01

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.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.
7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
8. This material is subject to change without notice. Please contact MBCI for most current data.

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Commercial/Industrial PRODUCT INFORMATION

RUSTIC C WALL PANEL
ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

22 Gauge								
SPAN TYPE	**LOAD TYPE**	SUPPORT SPACING						
		3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.	9 Ft.
1-span	**NEGATIVE WIND LOAD**	103.53	58.24	37.27	25.88	19.02	14.56	11.50
	LIVE LOAD/DEFLECTION	103.53	58.24	37.27	25.88	19.02	14.56	11.50
2-span	**NEGATIVE WIND LOAD**	101.72	57.66	37.03	25.77	18.95	14.52	11.48
	LIVE LOAD/DEFLECTION	101.72	57.66	37.03	25.77	18.95	14.52	11.48
3-span	**NEGATIVE WIND LOAD**	126.19	71.76	46.16	32.15	23.66	18.13	14.34
	LIVE LOAD/DEFLECTION	126.19	71.76	46.16	32.15	23.66	18.13	14.34
4-span	**NEGATIVE WIND LOAD**	118.09	67.08	43.13	30.02	22.09	16.93	13.39
	LIVE LOAD/DEFLECTION	118.09	67.08	43.13	30.02	22.09	16.93	13.39

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 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.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.
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