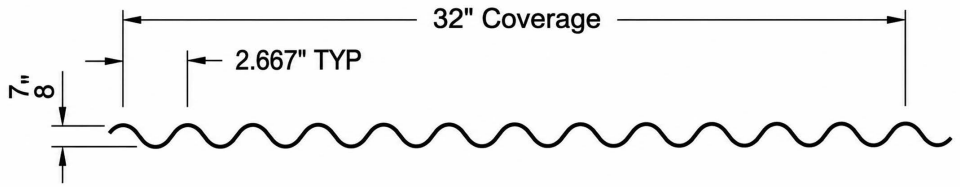
C PANEL

Alliance STEEL BUILDING SYSTEMS

The C Panel is a versatile corrugated metal panel featuring 7/8-inch-deep symmetrical ribs and 32-inch coverage. Its classic profile provides distinctive shadow lines and added strength for roof, wall, liner and fascia applications. The panel can be installed horizontally or vertically and is available in multiple gauges, finishes and Alliance color options.

PANEL DETAIL



FEATURES

- 32" Wide Panel Coverage Combines Simplicity And Function
- Smooth Symmetrical Ribs For Bold Shadowline Effects
- 7/8" Deep Ribs Are Nine Times Stronger Than Old Corrugated Panels
- Can Be Applied Horizontally Or Vertically.
- Available Mitered Corners For Continuity Around Edges
- Utilizes The Latest Technology While Preserving Nostalgia
- Excellent Cladding For Roof, Wall, Liner Or Fascia Accents
- Matching Light-Transmitting Panels Are Available
- Available In Several Gauges, Finishes, And Colors
- Tested for UL 2218 Impact Resistance and One-Hour UL 790 Fire Resistance

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*	0.84	0.0187	0.0405	1.4547	0.0187	0.0405	1.4547
26	60*	1.06	0.0249	0.055	1.9759	0.0249	0.055	1.9759
24	50	1.28	0.0318	0.0711	2.1296	0.0318	0.0711	2.1296
22	50	1.62	0.0415	0.0905	2.7099	0.0415	0.0905	2.7099

- Fy is reduced from 80 ksi to 60 ksi in accordance with the 2001 edition of the North American Specification for the Design of Cold-Formed Steel Structural Members - A2.3.2.
- Calculations for the properties of C panels are performed in accordance with the 2001 edition of the North American Specification for the Design of Cold-Formed Steel Structural Members.
- Ixe is for deflection determination.
- Sxe is for bending.
- Maxo is the allowable bending moment.
- All values are for one foot of panel width.

29 GAUGE (FV=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	107.8	60.6	38.8	26.9	19.8	15.2	12.0
	LIVE LOAD/DEFLECTION	60.5	25.5	13.1	7.6	4.8	3.2	2.2
2-SPAN	NEGATIVE WIND LOAD	107.8	60.6	38.8	26.9	19.8	15.2	12.0
	LIVE LOAD/DEFLECTION	94.3	56.0	31.5	18.2	11.5	7.7	5.4
3-SPAN	NEGATIVE WIND LOAD	134.7	75.8	48.5	33.7	24.7	18.9	15.0
	LIVE LOAD/DEFLECTION	112.3	48.2	24.7	14.3	9.0	6.0	4.2
4-SPAN	NEGATIVE WIND LOAD	125.8	70.7	45.3	31.4	23.1	17.7	14.0
	LIVE LOAD/DEFLECTION	106.6	51.2	26.2	15.2	9.5	6.4	4.5

26 GAUGE (FV=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	146.4	82.3	52.7	36.6	26.9	20.6	16.3
	LIVE LOAD/DEFLECTION	80.6	34.0	17.4	10.1	6.3	4.3	3.0
2-SPAN	NEGATIVE WIND LOAD	146.4	82.3	52.7	36.6	26.9	20.6	16.3
	LIVE LOAD/DEFLECTION	126.8	75.6	41.9	24.3	15.3	10.2	7 9
3-SPAN	NEGATIVE WIND LOAD	183.00	102.9	65.9	45.7	33.6	25.7	20.3
	LIVE LOAD/DEFLECTION	150.5	64.2	32.9	19.0	12.0	8.0	5.6
4-SPAN	NEGATIVE WIND LOAD	170.8	96.1	61.5	42.7	31.4	24.0	19.0
	LIVE LOAD/DEFLECTION	143.1	68.1	34.9	20.2	12.7	8.5	6.0
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	157.7	88.7	56.8	39.4	29.0	22.2	17.5
	LIVE LOAD/DEFLECTION	102.9	43.4	22.2	12.9	8.1	5.4	3.8
2-SPAN	NEGATIVE WIND LOAD	157.7	88.7	56.8	39.4	29.0	22.2	17.5
	LIVE LOAD/DEFLECTION	135.0	80.8	53.4	31.0	19.5	13.1	9.2
3-SPAN	NEGATIVE WIND LOAD	197.2	110.9	71.0	49.3	36.2	27.7	21.9
	LIVE LOAD/DEFLECTION	159.6	82.0	42.0	24.3	15.3	10.2	7.2
4-SPAN	NEGATIVE WIND LOAD	184.1	103.6	66.3	46.0	33.8	25.9	20.5
	LIVE LOAD/DEFLECTION	151.9	87.0	44.5	25.8	16.2	10.9	7.6

22 GAUGE (FV=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	200.7	112.9	72.3	50.2	36.9	28.2	22.3
	LIVE LOAD/DEFLECTION	134.3	56.7	29.0	16.8	10.6	7.1	5.0
2-SPAN	NEGATIVE WIND LOAD	200.7	112.9	72.3	50.2	36.9	28.2	22.3
	LIVE LOAD/DEFLECTION	172.2	103.0	68.0	40.5	25.5	17.1	12.0
3-SPAN	NEGATIVE WIND LOAD	250.9	141.1	90.3	62.7	46.1	35.3	27.9
	LIVE LOAD/DEFLECTION	203.7	107.0	54.8	31.7	20.0	13.4	9.4
4-SPAN	NEGATIVE WIND LOAD	234.3	131.8	84.3	58.6	43.0	32.9	26.0
	LIVE LOAD/DEFLECTION	193.8	113.5	58.1	33.6	21.2	14.2	10.0

- Allowable loads are based on uniform span length and Fy - 50 and 60-ksi..
- LIVE LOAD is limited by bending, shear, combined shear & bending, or web cripping.
- NEGATIVE WIND LOAD docs not contain a 33.333% increase and does not consider fastener pullout or pullover.
- Above loads consider a maximum deflection ratio of L/180.
- The weight of panel has not been deducted from the allowable loads.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice.

The Engineering 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 the 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.