

PRODUCT NAME

KirbyWall Panels for wall applications.

MANUFACTURER

Kirby Building Systems
P.O. Box 390, 124 Kirby Drive
Portland, TN 37148
615 325 4165
www.kirbybuildingsystems.com

PRODUCT DESCRIPTION

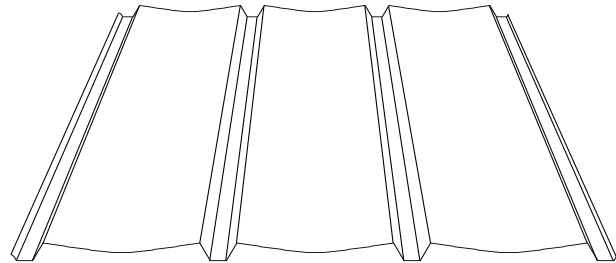
These wall panels provide 36" of coverage and reveal a sculptured appearance with semi-concealed fasteners. Rib depth is 1 5/16" on 12" centers.

Basic Use: A wall panel system for new or retrofit construction.

Materials: KirbyWall panels are available in 26 and 24 gauge 80,000 psi, either G90 zinc coated (galvanized) or AZ50 aluminum zinc alloy coated steel. Prepainted panels have Kynar 500® or Silicone-Polyester Cool Paint Finish. An embossed finish is available as an option.

KirbyWall panels are attached to the secondary framing members by self-drilling carbon steel screws, No. 12 x 1 1/4" hex washer head, cadmium or zinc plated. Fasteners are applicable for use with fiberglass blanket insulation up to 4" thick.

KirbyWall panel side laps are stitched with self-drilling carbon steel screws, No. 14 x 7/8" cadmium or zinc plated. Fasteners are normally color coordinated with a premium coating system that protects against corrosion and weathering.



TECHNICAL DATA

The KirbyWall panel has been tested in accordance with Air Infiltration, ASTM E283 and Water Penetration, ASTM E331. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

INSTALLATION

Installation should be performed in accordance with Kirby Building Systems' manuals and building erection drawings and should be done by a qualified installer using proper tools and equipment. Systems are installed by Kirby Building Systems' Authorized Builders.

WARRANTY

35 & 25 year paint finish warranties are available.

MAINTENANCE

Only normal routine maintenance is required over the life of the panels.

PRODUCT NOTES

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, Kirby Building Systems reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation.

Engineering Properties of Kirby Building Systems' KirbyWall Panel

Designated Gauge of Steel	Steel Yield (KSI)	Base Metal Thick. (In)	Total Thick. (In)	Panel Weight (Lbs/Ft ²)	Top In Compression						Bottom In Compression						Fb (KSI)	
					Ix (In ⁴ /Ft)		Sx (In ³ /Ft)		Ma (K-IN)		Ix (In ⁴ /Ft)		Sx (In ³ /Ft)		Ma (K-IN)			
26 Gauge	80	0.0177	0.0193	0.94	0.030		0.042		1.51		0.029		0.035		1.26		36	
24 Gauge	80	0.0225	0.0241	1.17	0.040		0.054		1.94		0.037		0.047		1.69		36	
Gauge of Panel	Number of Spans	Load Type	Maximum Total Uniform Load in PSF															
			L= 3'-0"		L= 3'-6"		L= 4'-0"		L= 4'-6"		L= 5'-0"		L= 6'-0"		L= 7'-0"		L= 7'-4"	
26 Ga.	1	POS	108	B+S	80	B+S	61	D	43	D	31	D	18	D	11	D	10	D
		NEG	-91	B+S	-67	B+S	-52	B+S	049	D	-29	D	-17	D	-11	D	-9	D
	2	POS	71	C	61	C	51	B+S	41	B+S	33	B+S	23	B+S	17	B+S	16	B+S
		NEG	-64	P	-55	P	-48	P	-42	P	-38	P	-28	B+S	-20	B+S	-19	B+S
	3	POS	81	C	69	C	61	C	50	B+S	41	B+S	29	B+S	21	D	19	D
		NEG	-72	P	-62	P	-54	P	-48	P	-43	P	-32	D	-20	D	-18	D
	4	POS	78	C	67	C	58	C	47	B+S	38	B+S	27	B+S	20	B+S	18	B+S
		NEG	-70	P	-60	P	-52	P	-46	P	-42	P	-32	B+S	-21	D	-19	D
24 Ga.	1	POS	141	B+S	104	B+S	80	B+S	58	D	42	D	24	D	15	D	13	D
		NEG	-123	B+S	-91	B+S	-70	B+S	-53	D	-38	D	-22	D	-14	D	-12	D
	2	POS	108	C	90	B+S	70	B+S	55	B+S	45	B+S	31	B+S	23	B+S	21	B+S
		NEG	-80	P	-69	P	-60	P	-53	P	-48	B+S	-36	B+S	-26	B+S	-24	B+S
	3	POS	123	C	106	C	86	B+S	69	B+S	56	B+S	39	B+S	29	B+S	25	D
		NEG	-91	P	-78	P	-68	P	-61	P	-55	B+S	-42	D	-26	D	-23	D
	4	POS	119	C	102	C	81	B+S	64	B+S	52	B+S	36	B+S	27	B+S	24	B+S
		NEG	-87	P	-75	P	-66	P	-58	P	-52	P	-42	B+S	-28	D	-24	D

- The panels were checked for bending (B), shear (S), combined bending and shear (B+S), deflection (D), web crippling (C) and panel pullover (P). The controlling check is noted in the table. Deflection was limited to span/120.
- Section properties have been calculated in accordance with the 2004 Supplement to the 2001 North American Specification for the Design of Cold-Formed Steel Structural Members.
- Steel panels are either aluminum zinc alloy or G-90 coated. The base metal thickness was used in determining section properties.
- Positive load (POS) is applied inward toward the panel supports and is applied to the outer surface of the panel cross-section. Negative load (NEG) is in the opposite direction.