

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 29, 26, and 24 gage 80,000 psi, either G90 zinc-coated (galvanized) or AZ50 aluminum-zinc alloy-coated steel. Prepainted panels have Kirby's premium DiamondKote (Kynar 500®) 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 6" 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 also 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 by a qualified installer using proper tools and equipment. Systems are installed by Kirby Building Systems' Authorized Builders.

AVAILABILITY

For availability, contact:
Kirby Building Systems
P. O. Box 390, 124 Kirby Drive
Portland, TN 37148
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WARRANTY

35-year paint finish warranties are available.

MAINTENANCE

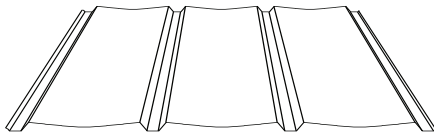
Only normal routine maintenance is required over the life of the panels.

TECHNICAL SERVICES

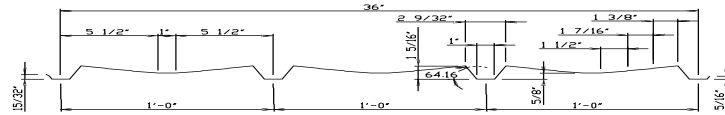
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PRODUCT NOTES

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.



PANEL PROFILE



CROSS SECTION

Engineering Properties of Kirby's KirbyWall Panel									
Designated Gage of Steel	Base Metal Thickness (In)	Total Thickness (In)	Panel Weight (Lbs/Ft ²)	Top In Compression		Bottom In Compression		Fy/1.67 (Ksi)	
				I _x (In ⁴ /Ft)	S _x (In ³ /Ft)	I _x (In ⁴ /Ft)	S _x (In ³ /Ft)		
29 Gage	0.013	0.014	0.71	0.024	0.032	0.024	0.028	36	
26 Gage	0.017	0.018	0.9	0.033	0.043	0.033	0.040	36	
24 Gage	0.022	0.023	1.12	0.043	0.056	0.043	0.053	36	
Designated Gage of Steel	Number of Spans	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'-6"
29 Gage	1	86/-75	63/-55	49/-42	30/-30	24/-22	15/-13	9/-8	7/-7
	2	75/-86	55/-63	42/-49	42/-30	34/-24	24/-17	17/-12	15/-11
	3	94/-108	69/-79	53/-61	53/-37	43/-30	27/-21	17/-15	14/-12
	4	87/-101	64/-74	49/-57	49/-35	40/-28	28/-20	18/-14	15/-13
26 Gage	1	115/-106	84/-78	65/-60	47/-41	36/-30	21/-17	13/-11	11/-9
	2	106/-115	78/-84	60/-65	55/-47	45/-38	31/-26	23/-19	20/-17
	3	133/-143	98/-105	75/-81	69/-58	56/-47	39/-33	25/-21	20/-17
	4	124/-134	91/-98	70/-75	65/-54	52/-44	36/-31	26/-22	21/-18
24 Gage	1	150/-142	110/-105	84/-80	65/-55	50/-40	29/-23	18/-15	15/-12
	2	142/-150	105/-110	80/-84	71/-65	58/-52	40/-36	29/-27	26/-23
	3	178/-187	131/-137	100/-105	89/-81	72/-65	50/-44	34/-28	28/-22
	4	166/-174	122/-128	93/-98	83/-75	67/-61	47/-42	34/-29	30/-24

1. Section properties have been calculated in accordance with the *AISI Specification for the Design of Cold-Formed Steel Structural Members, 1996 Edition, including Supplement No. 1 (1999)*
2. Minimum yield strength of steel is 80,000 psi.
3. Steel panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness shown in the minimum design thickness and was used in determining section properties.
4. Positive load is downward load applied to the top of the panel cross section as shown above. Negative load is opposite.
5. The loads shown are limited by the more critical of Span/120 deflection or the allowable bending moment with no stress increase.