Kirby Building Systems
A NUCOR Company

KirbyRib II Panel
Panel Specifications

PRODUCT NAME
KirbyRib II Panel for roof and 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 and roof panels have 1 ¼" ribs on 12" centers for an even shadowed appearance. They offer 36" width coverage and are reinforced between the ribs for added strength.

Basic Use: A roof and wall covering system for new or retrofit construction.

Materials: KirbyRib II 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.

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

KirbyRib II roof panels are attached to secondary framing members by 12 x 1 1/4" self-drilling carbon steel screws with a molded zinc alloy or capped stainless steel cupped hex washer head. Roof fasteners shall be assembled with an EPDM washer.

KirbyRib II roof side laps are stitched with No. 14 x 7/8", Type "AB" self drilling carbon steel screws with a molded zinc alloy or capped stainless steel cupped hex washer head. Roof fasteners shall be assembled with an EPDM washer.

KirbyRib II panel roof side laps, end laps, roof flashing laps, ridge and eave are sealed with tape mastic, Sika Sika-Tape TC-95 or equal. The material is non-staining, non-corrosive, non-toxic and non-volatile.
Composition is 100% solid ethylene propylene copolymer tape. Service temperature is -60F to +250F.

TECHNICAL DATA
The KirbyRib II panel has received a Class 90 Wind Uplift rating by Underwriters Laboratories when tested in accordance with test procedure UL 580. This 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
615.325.4165

WARRANTY
35-year paint finish warranties are available.

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

TECHNICAL SERVICES
For information, contact:
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P. O. Box 390, 124 Kirby Drive
Portland, TN 37148
615.325.4165

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.

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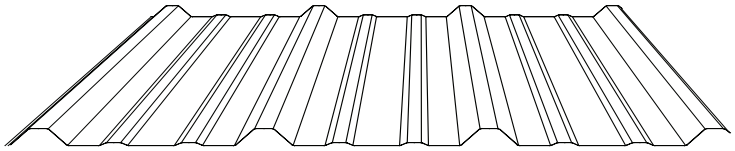
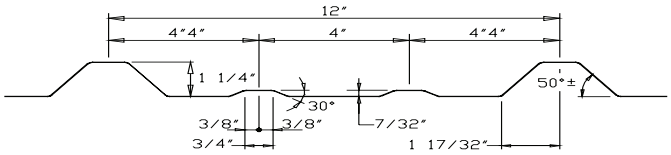


PANEL PROFILE



PARTIAL CROSS SECTION

Engineering Properties of Kirby's KirbyRib II Panel									
Designated Gage of Steel		Base Metal Thickness (In)	Total Thickness (In)	Panel Weight (Lbs/Ft²)	Top In Compression		Bottom In Compression		Fy/1.67 (Ksi)
					Ix (In⁴/Ft)	Sx (In³/Ft)	Ix (In⁴/Ft)	Sx (In³/Ft)	
29 Gage		0.013	0.014	0.71	0.03	0.025	0.026	0.036	36
26 Gage		0.017	0.018	0.9	0.043	0.039	0.036	0.047	36
24 Gage		0.022	0.023	1.12	0.06	0.054	0.048	0.06	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	67/-95	50/-64	38/-43	30/-30	24/-22	15/-13	9/-8	7/-7
	2	95/-67	70/-50	53/-38	42/-30	34/-24	24/-17	17/-12	15/-11
	3	119/-84	87/-62	67/-47	53/-37	43/-30	27/-21	17/-15	14/-12
	4	111/-79	81/-58	62/-44	49/-35	40/-28	28/-20	18/-14	15/-13
26 Gage	1	105/-124	77/-87	59/-58	47/-41	36/-30	21/-17	13/-11	11/-9
	2	124/-105	91/-77	70/-59	55/-47	45/-38	31/-26	23/-19	20/-17
	3	156/-131	114/-96	88/-74	69/-58	56/-47	39/-33	25/-21	20/-17
	4	145/-122	107/-90	82/-69	65/-54	52/-44	36/-31	26/-22	21/-18
24 Gage	1	145/-160	107/-117	82/-78	65/-55	50/-40	29/-23	18/-15	15/-12
	2	160/-145	118/-107	90/-82	71/-65	58/-52	40/-36	29/-27	26/-23
	3	200/-181	147/-133	113/-102	89/-81	72/-65	50/-44	34/-28	28/-22
	4	187/-169	137/-124	105/-95	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 critial of Span/150 deflection or the allowable bending moment with no stress increase.