

Kirby Reversed Roll Panel Specifications

PRODUCT NAME

KRP Panels for wall applications.

MANUFACTURER

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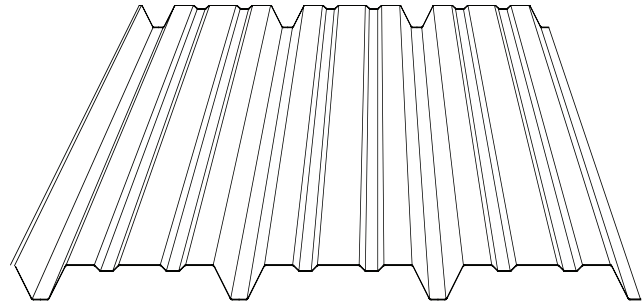
PRODUCT DESCRIPTION

These wall panels provide 36" width coverage with a decorative shadow line and semi-concealed fasteners. Rib depth is 1 1/4" on 12" centers.

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

Materials: KRP wall panels are available in 29, 26, and 24 gauge 80,000 psi, 22 gauge, 50,000 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.

KRP 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. KRP panel sidelaps 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 KRP 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.

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Engineering Properties of Kirby Building Systems' KRP 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)			
29 Gauge	80	0.0137	0.0153	0.74	0.026	0.035	1.26	0.030	0.025	0.90	36							
26 Gauge	80	0.0177	0.0193	0.94	0.035	0.046	1.66	0.043	0.037	1.33	36							
24 Gauge	80	0.0225	0.0241	1.17	0.047	0.059	2.12	0.060	0.054	1.94	36							
22 Gauge	50	0.0300	0.0316	1.53	0.070	0.081	2.43	0.083	0.085	2.55	30							
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"	
29 Ga.	1	POS	57	C	49	C	43	C	37	D	27	D	16	D	10	D	9	D
		NEG	-63	B+S	-47	B+S	-36	B+S	-29	B+S	-23	B+S	-16	B+S	-11	D	-10	D
	2	POS	54	C	46	B+S	35	B+S	28	B+S	23	B+S	16	B+S	12	B+S	11	B+S
		NEG	-49	P	-42	P	-37	P	-33	P	-30	P	-22	B+S	-17	B+S	-15	B+S
	3	POS	61	C	53	C	43	B+S	35	B+S	28	B+S	20	B+S	15	B+S	14	B+S
		NEG	-56	P	-48	P	-42	P	-37	P	-34	P	-27	B+S	-20	B+S	-19	B+S
	4	POS	59	C	51	C	41	B+S	33	B+S	27	B+S	19	B+S	14	B+S	13	B+S
		NEG	-54	P	-46	P	-40	P	-36	P	-32	P	-26	B+S	-19	B+S	-17	B+S
26 Ga.	1	POS	103	C	87	B+S	67	B+S	50	D	37	D	21	D	13	D	12	D
		NEG	-96	B+S	-71	B+S	-55	B+S	-43	B+S	-35	B+S	-24	B+S	-16	D	-14	D
	2	POS	87	C	70	B+S	54	B+S	43	B+S	35	B+S	24	B+S	18	B+S	16	B+S
		NEG	-64	P	-55	P	-48	P	-42	P	-38	P	-30	B+S	-22	B+S	-20	B+S
	3	POS	99	C	85	C	67	B+S	53	B+S	43	B+S	30	B+S	22	B+S	20	B+S
		NEG	-72	P	-62	P	-54	P	-48	P	-43	P	-36	P	-28	B+S	-25	B+S
	4	POS	96	C	81	B+S	63	B+S	50	B+S	41	B+S	28	B+S	21	B+S	19	B+S
		NEG	-70	P	-60	P	-52	P	-46	P	-42	P	-35	P	-26	B+S	-24	B+S
24 Ga.	1	POS	153	B+S	113	B+S	87	B+S	68	D	49	D	29	D	18	D	16	D
		NEG		B+S	-104	B+S	-80	B+S	-63	B+S	-51	B+S	-36	B+S	-23	D	-20	D
	2	POS	136	C	103	B+S	80	B+S	63	B+S	51	B+S	36	B+S	26	B+S	24	B+S
		NEG	-81	P	-69	P	-61	P	-54	P	-49	P	-39	B+S	-29	B+S	-26	B+S
	3	POS	155	C	128	B+S	99	B+S	78	B+S	64	B+S	44	B+S	33	B+S	30	D
		NEG	-92	P	-79	P	-69	P	-61	P	-55	P	-46	P	-36	B+S	-33	B+S
	4	POS	149	C	120	B+S	92	B+S	73	B+S	60	B+S	42	B+S	31	B+S	28	B+S
		NEG	-89	P	-76	P	-66	P	-59	P	-53	P	-44	P	-33	B+S	-30	B+S
22 Ga.	1	POS	177	B+S	131	B+S	100	B+S	79	B+S	64	B+S	42	D	27	D	23	D
		NEG		B+S	-137	B+S	-105	B+S	-83	B+S	-68	B+S	-47	B+S	-32	D	-28	D
	2	POS	184	B+S	136	B+S	105	B+S	83	B+S	67	B+S	47	B+S	35	B+S	31	B+S
		NEG		P	-98	P	-86	P	-76	P	-64	B+S	-45	B+S	-33	B+S	-30	B+S
	3	POS	220	C	169	B+S	130	B+S	103	B+S	84	B+S	58	B+S	43	B+S	39	B+S
		NEG		P	-11	P	-98	P	-87	P	-78	P	-56	B+S	-41	B+S	-37	B+S
	4	POS	211	C	158	B+S	122	B+S	96	B+S	78	B+S	55	B+S	40	B+S	37	B+S
		NEG		P	-107	P	-94	P	-83	P	-75	B+S	-52	B+S	-38	B+S	-35	B+S

- 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 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.