

7.2 Rib

 - 90 Rated

MATERIALS

18 - 26 Gauge Steel

.032 Aluminum

.040 Aluminum

Kynar® Colors

Galvalume® Plus

Anodized

Custom Perforated

Stucco Embossed

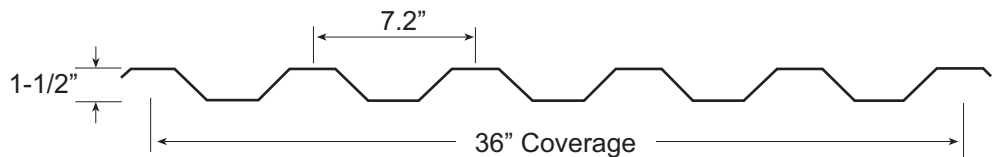
TESTING

ASTM E1680
Air Infiltration

ASTM E1646
Water Infiltration

ISSES Evaluation

UL-263 Class A
Fire Rated



Bryer's 7.2 Rib is an incredibly versatile panel for architectural, commercial and industrial applications. Equally suited to both roof or sidewall, it's bold profile offers a dramatic design element to almost any project. 7.2 Rib can be installed over a solid substrate or open framing and can run vertical or horizontal on sidewall applications. It's structural strength makes it an excellent choice for long span applications.

Available in both steel and aluminum Bryer's 7.2 Rib can be fabricated in continuous lengths up to 50 feet. It can also be reversed rolled specifically for sidewall installation. 7.2 Rib comes with a Kynar 500® coating offering exceptional resistance to fading and chalking. It is also available in bare Galvalume® or anodized aluminum.

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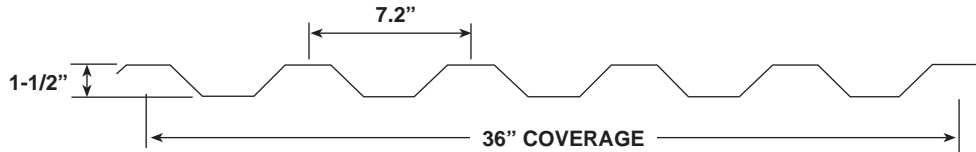
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Kynar 500® is a registered trademark of Elf Atochem North America, Inc.
Galvalume® is a registered trademark of BIEC International, Inc.



7.2 Rib Panel



GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a,end} lbs/ft.	P _{a,int} lbs/ft.	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
						I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
24	50.0	1.18	1.2177	204.92	390.57	0.0970	0.1179	3.5300	0.0970	0.1125	3.3700

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports. **MUST BE VERIFIED BY TESTS**
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
Single	Positive Wind	391	293	234	195	167	146	116	94	77	65	55	48	41	36	32	29
	Negative Wind	998	561	359	249	183	140	110	89	74	62	53	45	39	35	31	27
	Live	391	293	234	195	167	146	116	94	77	65	55	48	41	36	32	29
	Deflection (L/180)	2512	1059	542	314	197	132	93	67	50	39	30	24	20	16	13	11
	Deflection (L/240)	1884	794	406	235	148	99	69	50	38	29	23	18	15	12	10	8
2 Span	Positive Wind	298	223	179	149	127	111	99	87	72	61	52	45	39	34	30	27
	Negative Wind	814	503	339	242	181	140	112	91	75	64	54	47	41	36	32	28
	Live	298	223	179	149	127	111	99	87	72	61	52	45	39	34	30	27
	Deflection (L/180)	6051	2552	1307	756	476	319	224	163	122	94	74	59	48	39	33	28
	Deflection (L/240)	4538	1914	980	567	357	239	168	122	92	70	55	44	36	29	24	21
3 Span	Positive Wind	339	254	203	169	145	127	113	101	90	76	65	56	49	43	38	34
	Negative Wind	940	595	407	294	221	172	138	113	94	79	67	58	51	45	40	35
	Live	339	254	203	169	145	127	113	101	90	76	65	56	49	43	38	34
	Deflection (L/180)	4740	1999	1023	592	373	249	175	127	96	74	58	46	37	31	26	21
	Deflection (L/240)	3555	1499	767	444	279	187	131	95	72	55	43	34	28	23	19	16
4 Span	Positive Wind	326	244	195	163	139	122	108	97	84	71	60	52	45	40	35	32
	Negative Wind	901	566	385	277	208	162	129	105	88	74	63	54	48	42	37	33
	Live	326	244	195	163	139	122	108	97	84	71	60	52	45	40	35	32
	Deflection (L/180)	5032	2123	1086	629	396	265	186	135	102	78	61	49	40	33	27	23
	Deflection (L/240)	3774	1592	815	471	297	199	139	101	76	58	46	37	30	24	20	17

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.