7/8 Corrugated

MATERIALS

22 Gauge Steel
24 Gauge Steel
26 Gauge Steel
29 Gauge Steel

.032 Aluminum
.040 Aluminum

Kynar® Colors

Galvalume® Plus

Anodized

Custom Perforated

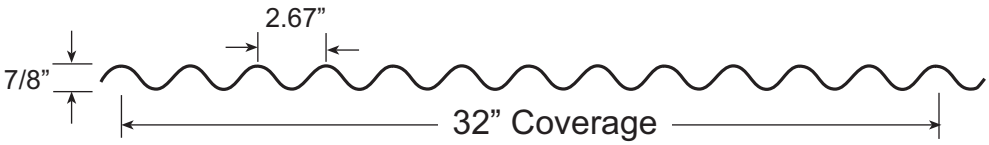
Stucco Embossed

A606 Steel (Cor-Ten®)

TESTING

UL-2218 Class 4
Hail Resistance

UL-790 Class A
fire rated



Bryer’s 7/8 Corrugated panel is a multifunctional profile suitable for roof, wall or soffit applications. The symmetrical wavy corrugations are aesthetically pleasing and can be produced in a multitude of materials and finishes. 7/8 Corrugated is ideal for architectural applications, both on the roof or sidewall in vertical or horizontal applications.

7/8 Corrugated can be run in continuous lengths in Kynar 500® coated steel or aluminum. Custom perforated panels are an excellent choice for acoustical wall or ceiling applications. 7/8 Corrugated is also a popular choice is weathering steel, better known as Cor-Ten®.

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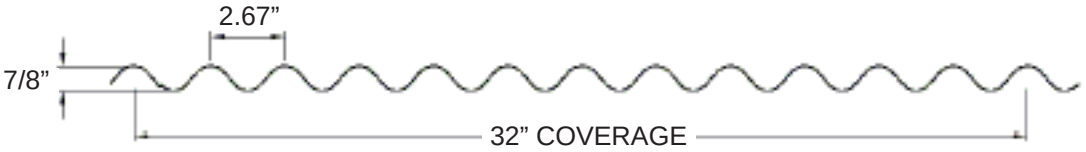
THE BRYER COMPANY
Metal Building Materials and Accessories

7/8 Corrugated



						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V_a kip/ft.	P_{a_end} lbs/ft.	P_{a_int} lbs/ft.	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	1.29	1.6933	767.24	995.88	0.0345	0.0768	2.2988	0.0345	0.0768	2.2988

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	681	383	245	170	125	95	75	61	50	42	36	31	27	23	21	18
	Negative Wind	681	383	245	170	125	95	75	61	50	42	36	31	27	23	21	18
	Live	681	383	245	170	125	95	75	61	50	42	36	31	27	23	21	18
	Deflection (L/180)	893	376	192	111	70	47	33	24	18	13	10	8	7	5	4	4
	Deflection (L/240)	670	282	144	83	52	35	24	18	13	10	8	6	5	4	3	3
2 Span	Positive Wind	531	368	239	167	123	94	75	60	50	42	36	31	27	23	21	18
	Negative Wind	637	368	239	167	123	94	75	60	50	42	36	31	27	23	21	18
	Live	531	368	239	167	123	94	75	60	50	42	36	31	27	23	21	18
	Deflection (L/180)	2152	908	464	269	169	113	79	58	43	33	26	21	17	14	11	9
	Deflection (L/240)	1614	681	348	201	127	85	59	43	32	25	19	15	12	10	8	7
3 Span	Positive Wind	603	452	295	207	153	118	93	75	62	52	45	38	33	29	26	23
	Negative Wind	775	453	295	207	153	118	93	75	62	52	45	38	33	29	26	23
	Live	603	452	295	207	153	118	93	75	62	52	45	38	33	29	26	23
	Deflection (L/180)	1686	711	364	210	132	88	62	45	34	26	20	16	13	11	9	7
	Deflection (L/240)	1264	533	273	158	99	66	46	34	25	19	15	12	10	8	6	5
4 Span	Positive Wind	580	425	277	194	143	110	87	70	58	49	42	36	31	27	24	22
	Negative Wind	730	425	277	194	143	110	87	70	58	49	42	36	31	27	24	22
	Live	580	425	277	194	143	110	87	70	58	49	42	36	31	27	24	22
	Deflection (L/180)	1789	755	386	223	140	94	66	48	36	27	21	17	14	11	9	8
	Deflection (L/240)	1342	566	289	167	105	70	49	36	27	20	16	13	10	8	7	6

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 usinga 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.

THE BRYER COMPANY