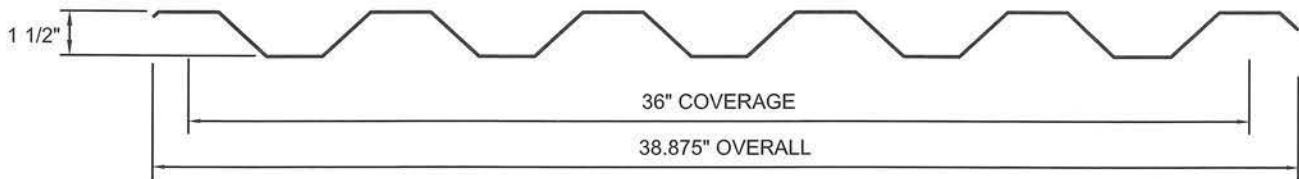
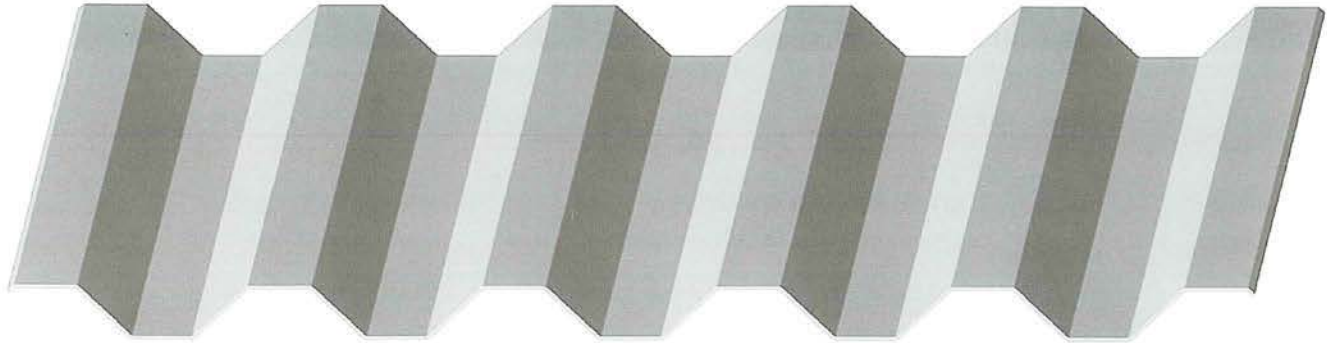


# FLEXOSPAN



**FLEXBEAM LOAD TABLE**

Thickness	# Spans	Span Length																				
		3'	3' 6"	4'	4' 6"	5'	5' 6"	6'	6' 6"	7'	7' 6"	8'	8' 6"	9'	9' 6"	10'	10' 6"	11'	11' 6"	12'	12' 6"	
18 Ga STL..	1	500	367	281	222	180	148	125	106	91	80	70	62	55	49	45	40	37	34	31	28	
	Defl.	0.13"	0.17"	0.23"	0.29"	0.36"	0.43"	0.51"	0.60"	0.70"	0.80"	0.91"	1.03"	1.15"	1.28"	1.42"	1.57"	1.72"	1.88"	2.05"	2.22"	
	3	620	455	348	275	223	184	155	132	113	99	87	77	68	61	55	50	46	42	38	35	
	Defl.	0.08"	0.11"	0.15"	0.19"	0.23"	0.28"	0.34"	0.40"	0.46"	0.53"	0.60"	0.68"	0.76"	0.85"	0.94"	1.03"	1.13"	1.24"	1.35"	1.46"	
20 Ga STL.	1	347	255	195	1544	124	103	86	73	63	55	48	43	38	34	31	28	25	23	21	20	
	Defl.	0.13"	0.17"	0.23"	0.29"	0.35"	0.43"	0.51"	0.60"	0.69"	0.79"	0.90"	1.02"	1.14"	1.27"	1.41"	1.56"	1.71"	1.87"	2.03"	2.21"	
	3	431	317	242	191	155	128	107	91	79	69	60	53	48	43	38	35	32	29	27	24	
	Defl.	0.08"	0.11"	0.15"	0.19"	0.23"	0.28"	0.33"	0.39"	0.46"	0.52"	0.59"	0.67"	0.75"	0.84"	0.93"	1.02"	1.12"	1.23"	1.34"	1.45"	
22 Ga STL.	1	346	254	194	153	124	103	86	73	63	55	48	43	38	34	31	28	25	23	21	19	
	Defl.	0.16"	0.22"	0.29"	0.37"	0.45"	0.55"	0.65"	0.76"	0.88"	1.02"	1.16"	1.30"	1.46"	1.63"	1.80"	1.99"	2.18"	2.39"	2.60"	2.82"	
	3	429	315	241	190	154	127	107	91	78	68	60	53	47	42	38	35	31	29	26	24	
	Defl.	0.11"	0.15"	0.19"	0.24"	0.30"	0.36"	0.43"	0.51"	0.59"	0.68"	0.77"	0.87	0.98"	1.09"	1.21"	1.33	1.46"	1.59"	1.74"	1.88"	
24 Ga STL..	1	256	188	144	114	92	76	64	54	47	41	36	32	28	25	23	21	19	17	16	14	
	Defl.	0.16"	0.22"	0.28"	0.36"	0.44"	0.53"	0.64"	0.75"	0.87"	0.99"	1.13"	1.28	1.43"	1.59"	1.77"	1.95"	2.14"	2.34"	2.54"	2.76"	
	3	317	233	178	141	114	94	79	67	58	50	44	39	35	31	28	25	23	21	19	18	
	Defl.	0.11"	0.14"	0.19"	0.24"	0.29"	0.36"	0.42"	0.50"	0.58"	0.66"	0.75"	0.85"	0.95"	1.06"	1.18"	1.30"	1.43"	1.56"	1.70"	1.84"	
.032" ALUM.	1	153		86		55		38		28		21		17		12						
	3	190		106		68		47		34		26		21		17		14				
.040" ALUM.	1	206		116		74		51		38		29		22		16		12				
	3	257		144		92		64		47		36		28		23		19		16		

*Stress governing, 37 ksi yield for 18, 20 Ga; 50 ksi for 22, 24 and 26 Ga. (PSF)*

# FLEXBEAM

FLEXOSPAN manufactures a 1-1/2" deep, 7.2" pitch, trapezoidal ribbed roofing and siding product that is economical, high in strength and aesthetically pleasing. The standard FLEXBEAM profile is produced at 38-7/8" overall width with 36" coverage, saving costs in sidelap material and quantity of sheets to handle in the field. FLEXOSPAN makes factory formed profile corners in matching finish and gauge, to compliment horizontally erected panels. FLEXBEAM is stocked in the following materials: G-90 galvanized, Galvalume, acrylic coated Galvalume, stainless steel, aluminum, and fourteen standard colors. Non-standard colors and narrow width may be ordered with minimum quantity restrictions. Contact factory for information and costs.

## SPECIFICATION DATA SHEET - ROOFING AND SIDING PANELS SECTION 07400

### PART 1 GENERAL - THROUGH FASTENED METAL PANELS

#### 1.1 PERFORMANCE AND DESIGN REQUIREMENTS FOR ROOF AND WALL SYSTEMS

- A. Roof and Wall Panels: Steel panels shall be designed in accordance with the AISI Cold-Formed Steel Design Manual and local building codes as applicable.
- B. Framing members and their connections shall be designed in accordance with AISC, AISI, and LGSI design specifications and local building codes as applicable.

#### 1.2 STORAGE AND HANDLING

- A. Store all material and accessories above ground on well skidded platforms.
- B. Store inside or under breathable waterproof covering. Provide proper ventilation to panels to prevent condensation buildup between each panel. Elevate one end of bundles while being stored.

### PART 2 PRODUCTS - THROUGH FASTENED METAL PANELS

Materials furnished under this specification data sheet shall be the items checked in the gauge circled.

#### 07 41 13 Metal Roof Panel:

- Flexbeam - 24, 22, 20, 18 Gauge
- Flexrib - 26, 24, 22, 20, 18 Gauge
- Corrugated 1/2" - 26, 24, 22, 20, 18 Gauge
- Corrugated 3/4" - 26, 24, 22, 20, 18 Gauge
- Corrugated 7/8" - 26, 24, 22, 20, 18 Gauge
- R-Panel - 26 Gauge

#### Painted G-90 or Galvalume coated:

- Vinyl Plastisol (FLEXSHIELD)
- Kynar 500® / Hylar5000® - Fluorocarbon
- Siliconized Polyester

#### Color:

- Flexospan Standard Color
- Custom Color - Special ordered with a minimum quantity requirement.

#### Unpainted Roof Panel:

- Acrylic-Coated G-90 Galvanized Steel
- Acrylic-Coated Galvalume Steel
- Stainless Steel - 24, 22, 20, 18 Gauge
- Type 3003 Aluminum - .032in, .040in

Insulation shall be Fiberglass-type blanket faced with VRR+ vinyl 2-3/4", 3", 4", 6" \_\_\_\_\_

#### 07 42 13 Metal Wall Panel:

- Flexbeam - 24, 22, 20, 18 Gauge
- Flexrib - 26, 24, 22, 20, 18 Gauge
- Vertarib - 26, 24, 22, 20, 18 Gauge
- Corrugated 1/2" - 26, 24, 22, 20, 18 Gauge
- Corrugated 3/4" - 26, 24, 22, 20, 18 Gauge
- Corrugated 7/8" - 26, 24, 22, 20, 18 Gauge
- R-Panel - 26 Gauge
- A-Panel - 26 Gauge

#### Painted Steel with G-90 Galvanizing or Galvalume coated:

- Vinyl Plastisol (FLEXSHIELD)
- Kynar 500® / Hylar5000® - Fluorocarbon
- Siliconized Polyester

#### Color:

- Flexospan Standard Color
- Custom Color - Special ordered with a minimum quantity requirement.

#### Unpainted Wall Panel:

- Acrylic-Coated G-90 Galvanized Steel
- Acrylic-Coated Galvalume Steel
- Stainless Steel - 24, 22, 20, 18 Gauge
- Type 3003 Aluminum - .032in, .040in

Insulation shall be Fiberglass-type blanket faced with VRR+ vinyl 2-3/4", 3", 4", 6" \_\_\_\_\_

### PART 3 EXECUTION - THROUGH FASTENED METAL PANELS

#### 3.1 INSTALLATION

- A. Install in accordance with Flexospan's Standard Details. ([www.Flexospan.com](http://www.Flexospan.com))
- B. Formed closed cell polyethylene profile closures, glued rib side for ridge, eave and opening edges.
- C. Tape: Sealer tape required on all through fastened roofs under 4:12 pitch at the end and side laps.
- D. Remove strippable film immediately upon erection of panels or flashings.



[www.flexospan.com](http://www.flexospan.com)

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