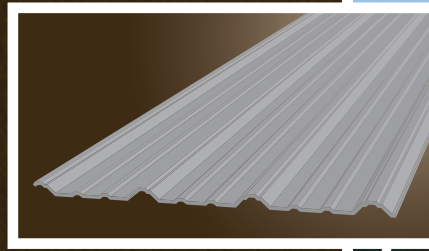


DuraRib®

Roof and Wall System



Description

Star's DuraRib® panel is a proven product that provides durability, cost efficiency and ease in erection for both roof and wall applications. DuraRib® is a 36" wide panel with 1¹/₈" high ribs on 12" centers and a full sidelap configuration. Two minor ribs are symmetrically spaced between the major ribs to minimize oil-canning. The sidelap configuration is engineered to ensure weathertightness. The purlin/girt-bearing leg design makes panel alignment and fastener engagement easy and consistent.

Gauge

- 26 gauge (standard)
- 24 gauge

Length

Maximum length of 42'-9"

Dimensions

36" wide by 1¹/₈" high

Finish

- Galvalume Plus®
- Signature® 200 Colors
- Signature® 300 Colors

Fasteners

The attachment of the DuraRib® panel is made from the exterior with color matched fasteners. DuraRib® fasteners are coated with an organic material that tests seven times more resistant to rust than typical coatings. Innovative pilot points minimize fastener strip-out.

Usage

The DuraRib® panel can be used for both roof and wall applications. It can also be used in liner and façade applications.



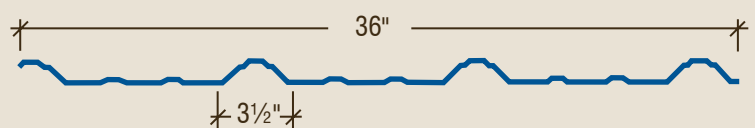
Attributes

1. 36" coverage
2. Purlin bearing leg
3. UL® 30 and UL® 90 classification for wind uplift resistance
4. Use as roof or wall panel
5. 80 ksi yield steel for roof panel
6. Light transmitting panels
7. Diaphragm action

Advantages

1. Maximizes ease of installation
2. Makes panel alignment and fastener engagement consistent
3. Reduces insurance rates
4. Versatile
5. Enhances walkability, resistance to hail damage and increases load carrying capacity
6. Profile light transmitting panels are available for both roof and wall applications to aid in natural lighting and reduced energy consumption
7. DuraRib® panel configuration enhances diaphragm capabilities for purlin stability

Galvalume Plus® is a registered trademark of BIEC International, Inc.
UL® is a registered trademark of Underwriters Laboratories Inc.
Signature® is a registered trademark of the NCI Group.
DuraRib® is a registered trademark of the NCI Group.



DuraRib® - Section Properties

ROOF	DESIGN LOADS*				OUTSIDE IN COMPRESSION				INSIDE IN COMPRESSION		
	PANEL GAUGE	Tested Ultimate	Seismic	Wind	G' (#/IN.)	Ap (IN. ²)	Ix (IN.4/FT.)	Sx (IN.3/FT.)	Ix (IN.4/FT.)	Sx (IN.3/FT.)	Fb (KSI)
	26	444 lbs/ft	178 lbs/ft	222 lbs/ft	27420	0.752	0.03909	0.04327	0.03588	0.04294	36
24	27420				0.927	0.04752	0.05614	0.04518	0.05354	30	

WALL	DESIGN LOADS*				OUTSIDE IN COMPRESSION				INSIDE IN COMPRESSION		
	PANEL GAUGE	Tested Ultimate	Seismic	Wind	G' (#/IN.)	Ap (IN. ²)	Ix (IN.4/FT.)	Sx (IN.3/FT.)	Ix (IN.4/FT.)	Sx (IN.3/FT.)	Fb (KSI)
	26	350 lbs/ft	140 lbs/ft	175 lbs/ft	3450	0.752	0.03917	0.04421	0.03665	0.04352	30
24	3450				0.927	0.04752	0.05614	0.04518	0.05354	30	



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*Values based on ASTM E 455

1. Section properties have been calculated in accordance with the 1986 *AISI Cold-Formed Specification* with 1989 addendum.
2. Steel thickness was used in determining section properties. Coated thickness includes galvanized or zinc-aluminum coating.

DuraRib® - Allowable Load (PSF) For Nominal Purlin (Roof) Or Girt (Wall) Spacing

WALL 26 Gauge	SPAN CONDITION	LOAD CONDITION	GIRT SPACE (IN FEET)			WALL 24 Gauge	SPAN CONDITION	LOAD CONDITION	GIRT SPACE (IN FEET)		
			5'	6'	7'				5'	6'	7'
			SIMPLE	PRESSURE	47.06 54.78				32.68 31.70	24.01 19.96	SIMPLE
SUCTION	46.33 51.26	32.17 29.66		23.64 18.68	SUCTION	57.00 63.19	39.58 36.57	29.08 23.03			
2-SPAN	PRESSURE	46.33 127.84	32.17 73.98	26.64 46.59	2-SPAN	PRESSURE	57.00 156.30	39.58 90.46	29.08 56.96		
	SUCTION	47.06 127.84	32.68 73.98	24.01 46.59		SUCTION	59.76 156.30	41.50 90.46	30.49 56.96		
3-SPAN	PRESSURE	57.91 100.05	40.22 57.90	29.55 36.46	3-SPAN	PRESSURE	71.24 122.33	49.48 70.79	36.35 44.58		
	SUCTION	58.83 100.05	40.85 57.90	30.01 36.46		SUCTION	74.70 122.33	51.88 70.79	38.11 44.58		

1. Top values are based on stress. 1/3 for wind load is included.
2. Bottom values are based on deflection of L/120 for 10 year wind (L/90 for 50 year wind).
3. Standard fastener pullover allowable is 222 lbs. including 1/3 increase for wind (#12 fastener without washer).

ROOF 26 Gauge	SPAN CONDITION	LOAD CONDITION	PURLIN SPACE				ROOF 24 Gauge	SPAN CONDITION	LOAD CONDITION	PURLIN SPACE			
			3'	4'	5'	6'				3'	4'	5'	6'
			SIMPLE	GRAVITY	115.16 151.87	64.78 64.07				41.46 32.80	28.79 18.98	SIMPLE	GRAVITY
UPLIFT	152.37 174.24	85.71 73.51		54.85 37.64	38.09 21.78	UPLIFT	158.32 219.41	89.06 92.56	57.00 47.39	39.58 27.43			
2-SPAN	GRAVITY	114.28 351.13	64.28 148.13	41.14 75.84	28.57 43.89	2-SPAN	GRAVITY	118.74 434.17	66.79 183.17	42.75 93.78	29.69 54.27		
	UPLIFT	153.54 438.91	86.37 185.17	55.28 94.81	38.39 54.86		UPLIFT	166.01 542.71	93.38 228.96	59.76 117.23	41.50 67.84		
3-SPAN	GRAVITY	142.85 274.80	80.35 115.93	51.43 59.36	35.71 34.35	3-SPAN	GRAVITY	148.43 339.79	83.49 143.35	53.43 73.39	37.11 42.47		
	UPLIFT	191.93 343.50	107.96 144.91	69.09 74.20	47.98 42.94		UPLIFT	207.51 424.73	116.72 179.18	74.70 91.74	51.88 53.09		
4-SPAN	GRAVITY	133.38 291.71	75.03 123.06	48.02 63.01	33.34 36.46	4-SPAN	GRAVITY	138.59 360.70	77.95 152.17	49.89 77.91	34.65 45.09		
	UPLIFT	179.20 364.64	100.80 153.83	64.51 78.76	44.80 45.58		UPLIFT	193.75 450.87	108.99 190.21	60.75 97.39	48.44 56.36		

1. Top values are based on stress. Uplift values include 1/3 increase for wind.
2. Bottom values are based on deflection of L/150 for gravity and L/120 for uplift.
3. Standard fastener uplift allowable is 267 lbs. per fastener including 1/3 increase. (Pullover for #12 fasteners with 1/2" dia. washer.)

EFFECTIVE JULY 22, 2010 | SUBJECT TO CHANGE WITHOUT NOTICE