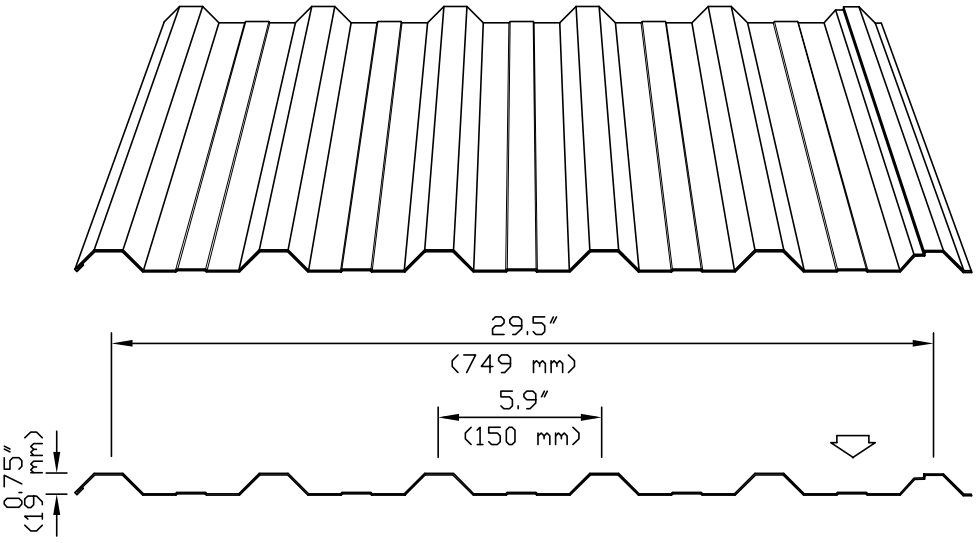
Diamond Rib

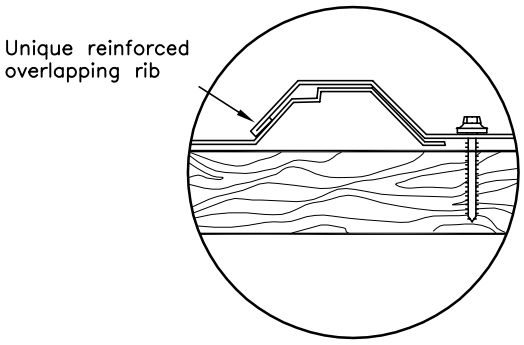
The "Diamond Rib" manufactured by Ideal Roofing is the industry's most versatile lightweight steel siding profile.
Its aesthetic, architectural and structural qualities renders it worthy of consideration on a variety of building types and designs. Commercial, agricultural, light industrial and even specialized residential constructions can be handsomely covered with this panel.

To ensure rigidity the "Diamond Rib" has six ¾" (19mm) high ribs and is roll-formed into 29½" (749mm) wide panels which are custom cut in lengths up to 40 feet (12.2mm) for fast and easy installation.

With its anti-siphon groove at the over-lap, the "Diamond Rib" can also be used as a roofing sheet on certain projects. However, the manufacturer's recommendations must be followed, since this product was designed mostly for siding applications.



Diamond Rib



AVAILABLE MATERIALS

Mill finish Galvanized Steel
- (ASTM-A653 SS grade 33, Z275 (G-90));
gauges: 30 (.015"/0.38mm thick),
28 (.018"/0.45mm thick),
26 (.021"/0.54mm thick),
24 (.026"/0.66mm thick).

Mill finish Galvalume Plus Steel
- (ASTM-A792 SS grade 33, AZ165);
gauges: 30 (.015"/0.38mm thick),
28 (.018"/0.45mm thick),
26 (.021"/0.54mm thick),

Pre-painted Galvanized Steel
-(ASTM-A653 SS grade 33, Z275 (G-90));
8000+ Series: see colour chart;
gauges: 30 (.015"/0.38mm thick),
28 (.018"/0.45mm thick),
26 (.021"/0.54mm thick),
24 (.026"/0.66mm thick).

Aluminum Plain and Diamond Embossed
gauge: 25 (.0175"/0.44mm thick)

Aluminum Pre-painted White
gauge: 23 (.023"/0.58mm thick)

Minimum Yield Stress	Fy = 33,000.00 P.S.I. (228 Mpa)
Maximum Working Stress	Fb = 20,625.00 P.S.I. (144 Mpa)
Young's Modulus	(E) = 29,500,000.00 P.S.I. (203 Mpa)

UNIFORMLY DISTRIBUTED LOADS (psf/ Kpa)

Span Condition	Span In (mm)	30 gauge (.015" / 0.38mm)	28 gauge (.018" / 0.45mm)	26 gauge (.021" / 0.54 mm)	24 gauge (.026" / 0.66 mm)
		D	D	D	D
	12 (305)	136 (6.64)	185 (9.03)	271 (13.23)	490 (23.92)
	15 (381)	109 (5.32)	148 (7.23)	217 (10.59)	392 (19.14)
T	18 (457)	90 (4.39)	123 (6.00)	181 (8.84)	326 (15.92)
R	21 (533)	77 (3.76)	105 (5.13)	155 (7.57)	253 (12.35)
I	24 (610)	68 (3.32)	92 (4.49)	135 (6.59)	194 (9.47)
P	30 (762)	53 (2.59)	66 (3.22)	87 (4.25)	124 (6.05)
L	36 (914)	37 (1.81)	45 (2.20)	60 (2.93)	86 (4.20)
E	42 (1067)	27 (1.32)	33 (1.61)	44 (2.15)	63 (3.08)
	48 (1220)	20 (0.98)	25 (1.22)	34 (1.66)	48 (2.34)

D = Load capacity based on deflection L/180

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