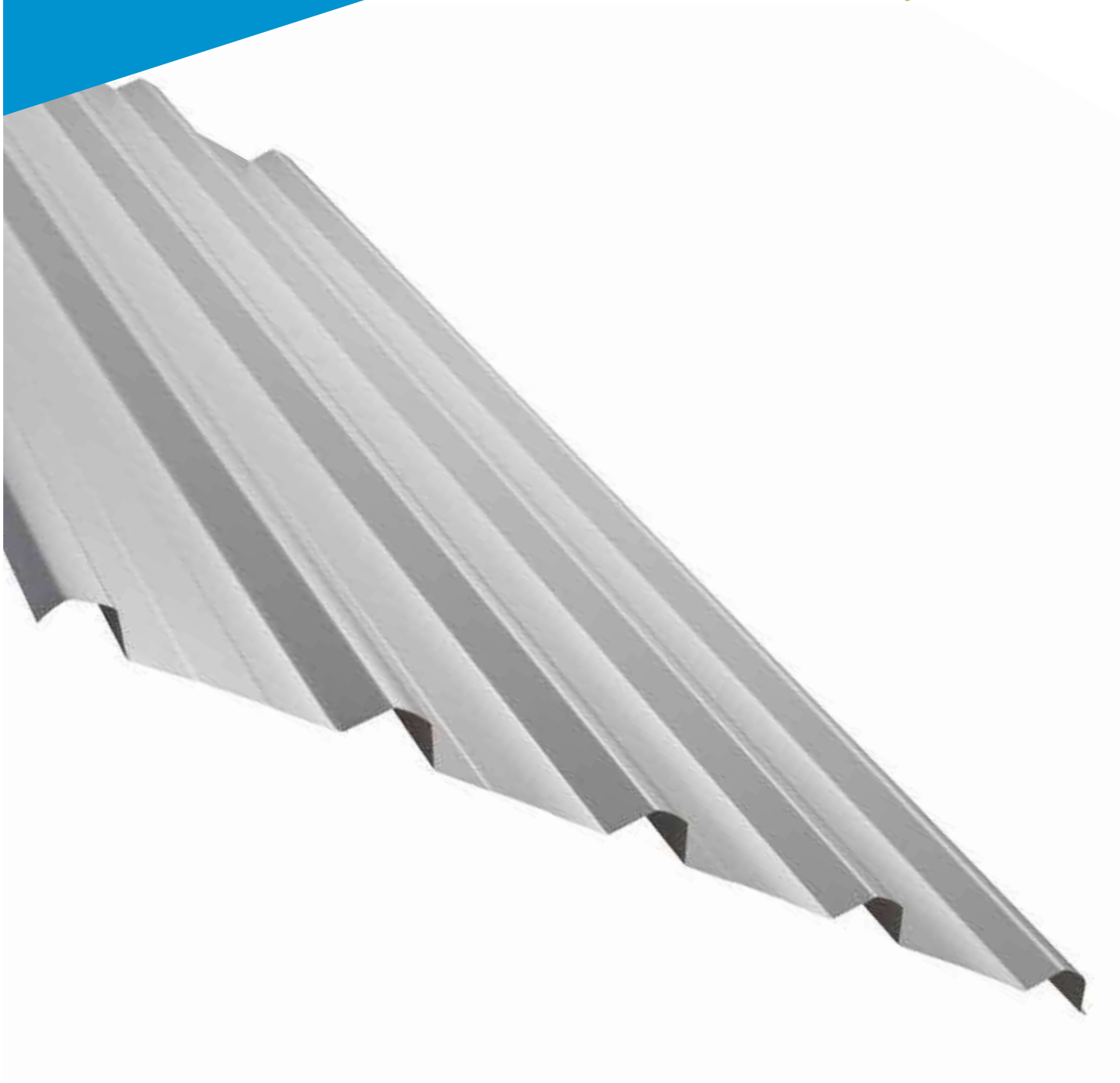
Steeline Steel Clad 762

ROOF AND WALL CLADDING
ST31



Colorbond® Zincalume®

Steel Clad 762 is a modern, stylish, high strength, lightweight roof and wall cladding material. Made from high tensile steel, the profile has been engineered to give the highest strength and rigidity possible, whilst using the least material. Manufactured locally by continuous roll forming of prefinished steel coil, Steeline Steel Clad 762 is a low cost, high quality product.

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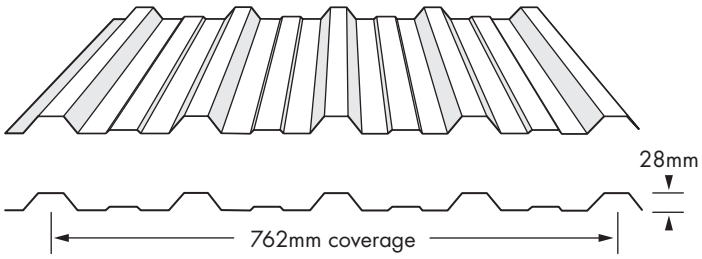
Steel Clad is an economical roof and wall cladding and is suitable for warehouse roof and walls. It has good water carrying capacity at low pitches.

Steel Clad is available in a wide range of colours and also suitable for domestic applications.

Product Details

PROFILE



Material Specification

0.42 or 0.48	Zincalume®	G550 AM125
0.42 or 0.48	Galvanised	G550 Z450
0.42 or 0.48	Colorbond®	G550 AM100

SPECIAL ORDERS

Stainless Steel, Metallic, Coolmax and Ultra

Product Mass

BMT		kg/m²
0.42	Zincalume®	4.24
0.42	Colorbond®	4.27
0.42	Galvanised	4.65
0.48	Zincalume®	4.81
0.48	Colorbond®	4.85
0.48	Galvanised	5.23

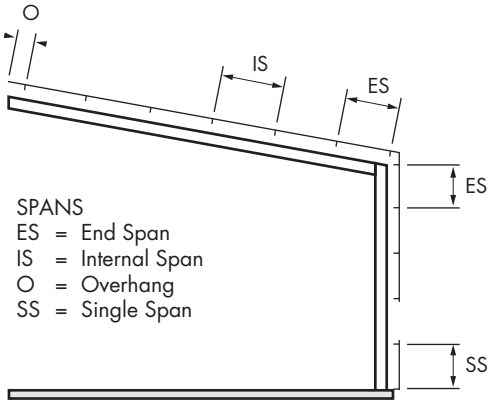
Wind Load Conversion

WIND CLASSIFICATION (Domestic)	REGION & CATEGORY (Commercial/Industrial)
N1 (W28)	Reg A, Cat 3
N2 (W33)	Reg A, Cat 2.5 - Reg B, Cat 3
N3 (W41)	Reg A, Cat 2 - Reg B, Cat 2.5
N4 (W50)	Reg B, Cat 2

Maximum Support Spacings (mm)

Type of Span	Thickness (mm)	BMT
	.42	.48
ROOFS		
Single Span	1100	1600
End Span	1300	1800
InternalSpan	1900	2600
Unstiffened Eaves Overhang	150	200
WALLS		
Single Span	2100	2400
End Span	2700	2700
InternalSpan	2700	2700
Overhang	200	200

Maximum Support Spacing has been determined by load tests and deflection in accordance with AS 1562-1 AS 4040 1&2 1992.



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.42 Bmt Steel Clad Roof & Wall

Limit State Wind Pressure Capacities (kpa)

4 Screw intermediate 4 Screw Gutter & Apex Line						Walls Only				
SPAN TYPE		Span mm 900	1100	1300	1500	1800	1900	2100	2400	2700
SINGLE	Serviceability	3.90	3.10	2.40	1.85	1.25	1.10	0.75		
	Strength	8.00	7.00	6.10	5.15	3.75	3.25	2.30		
END	Serviceability	3.60	3.20	2.80	2.50	1.95	1.80	1.60	1.20	0.And 80
	Strength	6.00	5.55	5.10	4.65	4.05	3.80	3.04	2.70	2.10
INTERNAL	Serviceability	4.20	3.80	3.35	2.90	2.35	2.20	1.90	1.50	1.20
	Strength	8.00	7.00	6.10	5.35	4.40	4.10	3.70	3.25	3.00

.48 Bmt Steel Clad Roof & Wall

Limit State Wind Pressure Capacities (kpa)

4 Screw intermediate 4 Screw Gutter & Apex Line						Walls Only				
SPAN TYPE		Span mm 900	1200	1500	1600	1800	2100	2400	2600	2700
SINGLE	Serviceability	5.00	3.05	1.80	1.63	1.15	0.75	0.60		
	Strength	10.00	8.55	7.00	6.50	5.45	3.95	2.60	1.55	1.10
END	Serviceability	5.10	3.85	2.85	2.55	2.12	1.55	1.20	0.95	0.85
	Strength	8.60	6.70	5.20	4.80	4.20	3.55	3.00	2.70	2.65
INTERNAL	Serviceability	5.96	4.85	3.85	3.55	3.15	2.40	1.95	1.72	1.62
	Strength	9.00	8.00	7.00	6.65	5.45	5.25	4.40	4.00	3.80

Fixing to steel 1.0 minimum thickness.

Compliance

Wind pressure capacitiy tables have been determined by full scale testing in accordance with AS 1562.1 and AS 4040.1&2 1992.

Non-Cyclonic areas.

The pressure considered is based on buildings up to 10m high in Region B, Terrain Category 3, M_3 = 0.85, M_l =1.0, M=1.0 with the following assumptions made:

Roofs

C_{pi} = +0.20, C_{pe} = -0.90, K_l = 2.0 for single and end spans, K_l = 1.5 for internal spans.

Walls

C_{pi} = +0.20, C_{pe} = -0.65, K_l = 2.0 for single spans, K_l = 1.5 for internal spans.

Wall Pressure Test

Steeline

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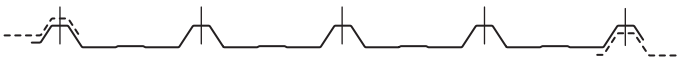
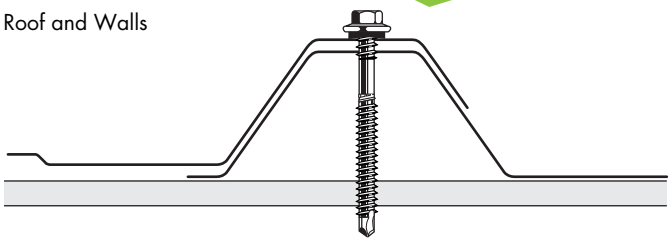
Fixing Details

Crest: 4 Fasteners

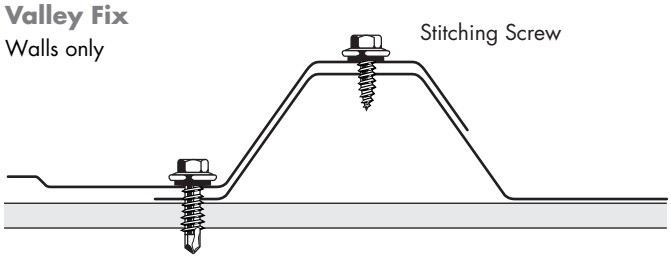


Crest Fix
Roof and Walls



Valley: 4 Fasteners

Valley Fix
Walls only



Steel Clad Roofing

Should be laid square to the gutter line and into the prevailing wind. The sheet is fastened at every rib. Sheets must be turned up at the apex and down at the gutter line. Side lap fastener is recommended mid span when span exceeds 1200mm.

Steel Clad Wall

Steel Clad is very popular for warehouse walls and farm sheds. It is easily installed and has good spanning capability. Side lap fastener is recommended mid span when the span exceeds 1200mm.

Design Considerations

The recommended minimum pitch is 2 degrees. For long run roofing the pitch should be increased and spans considered.

Length

- Steel Clad is custom cut to your exact length.
- The maximum length for pierce fixed roofing is 23.7m before an expansion joint is required. This length is recommended for light colours only. Dark colours should not exceed 16.0m because of increased thermal expansion.

Foot Traffic

- Always walk over purlins and place your foot print in the pan only. To avoid sheet damage don't stand on ribs.

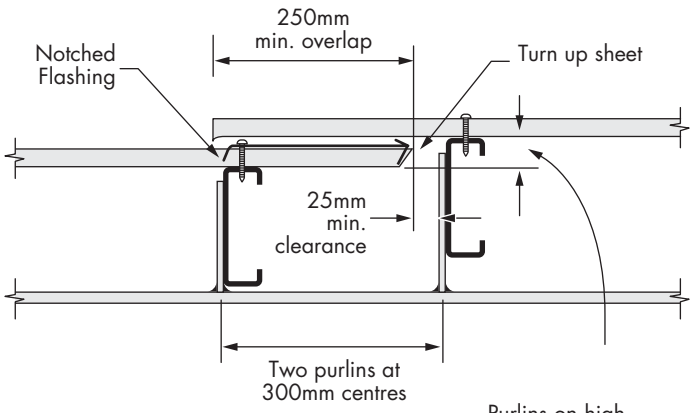
Handling On Site

- Delivery to site arrangements to be the responsibility of the customer.
- Sheets should be kept dry and clear of the ground.
- When handling sheets use dry, clean gloves and don't drag sheets over each other.

Cutting

- It is recommended to cut sheets with tin snips

Expansion Joint



Purlins on high side of lap raised by depth of sheeting plus 15mm above purlins on low side

Fasteners

	Fixing to Steel	Fixing to Timber
Crest Fixing Roof Neo Washer	12 - 14 Teks or M6 x 50mm Teks .55-1.0mm Thick Steel	12 Type 17 M6 Teks
Walls Neo Washer	10 - 16 x 16 Teks	12 x 25 Type 17