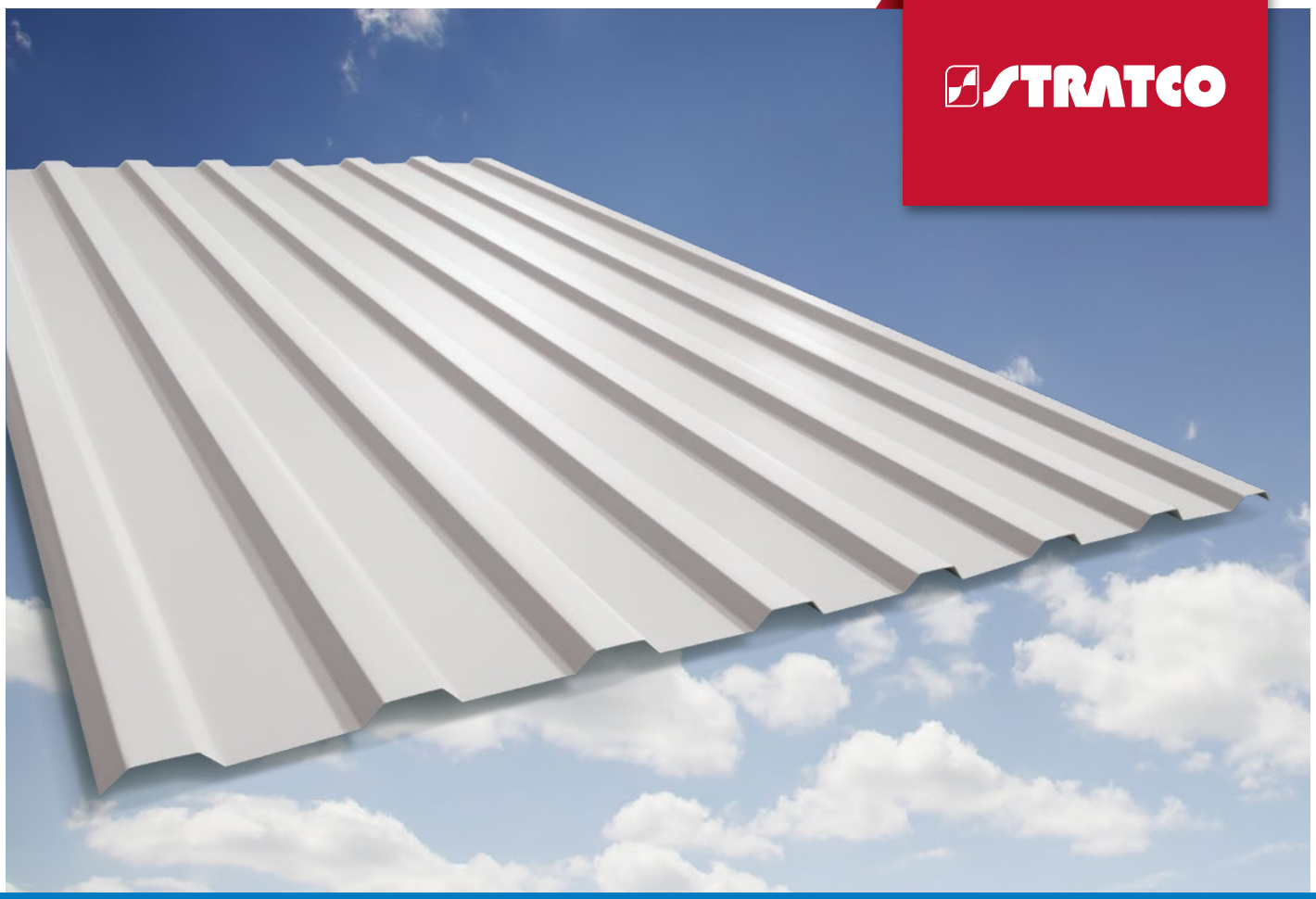


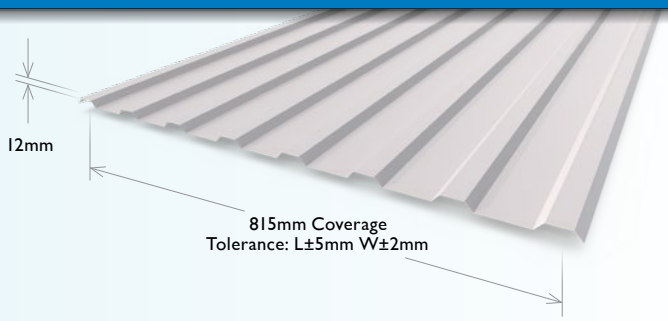
MAXICLAD®

WALLING | SCREENING | CEILINGS

DESIGN GUIDE

FORM AND FUNCTION

Stratco Maxiclad® is an extremely versatile wall cladding material with a clean and uncluttered profile that is suitable for a variety of applications. It is particularly suitable for fencing, walling, screens, fascias, ceilings, gables, garages, sheds and aviaries. Its low 12mm rib height has proven to be popular with architects consumers and tradesmen as it produces a neat clean finish. The wide 815mm coverage makes Maxiclad an attractive product to use as less sheets are needed to cover the chosen area.



CUSTOM MADE FOR YOUR PROJECT

Maxiclad sheets longer than 1.2 metres are rolled to the specific length you require, provided the appropriate transport and handling can be arranged. If lengths longer than ten metres are required, consult your nearest Stratco for advice on handling and transport.

To give your project a professional finish, painted self drilling screws are available. Stratco offer a complete range of flashings and accessories for use with Maxiclad, and can provide professional advice on specific flashings.

MATERIAL SPECIFICATIONS

Material Properties	Finish	0.35 BMT	0.42 BMT
Total Coated Thickness (TCT) mm	Zinc/al	0.40	0.47
	Colour	0.43	0.50
Mass (kg/linear metre)	Zinc/al	2.74	3.26
	Colour	2.79	3.32
Mass (kg/square metre)	Zinc/al	3.36	4.00
	Colour	3.43	4.07
Yield (square metre/tonne)	Zinc/al	297.2	250.1
	Colour	291.2	245.8
Tensile Strength (MPa)	Zinc/al & Colour	G550	G550
Width Coverage (mm)	Zinc/al & Colour	815	815
Sheet Tolerances (mm)	Length & Width	±5 ±2	±5 ±2

SPAN TABLES

MAXIMUM RECOMMENDED SPANS FOR WALLING (mm)
Determined by wind speeds for non-cyclonic areas

Span Type	Walling (BMT)	
	0.35mm	0.42mm
Single Span	1400	1900
End Span	1700	2150
Internal Span	2100	2350
Overhang	150	150

Walling: Spans based on N1 (W28) wind loading.

SPANS (mm) - Determined by wind speeds for non-cyclonic areas

BMT	Application	Span Type	WIND CLASSIFICATION			
			N1 (W28)	N2 (W33)	N3 (W41)	N4 (W50)
0.35mm	Walling	Single	1400	1150	950	900
		End	1700	1450	1250	1150
		Internal	2100	1700	1450	1400
0.42mm	Walling	Single	1900	1600	1350	1250
		End	2150	1900	1700	1600
		Internal	2350	2100	1900	1800

Values applicable for use with steel supports of minimum 0.75mm thickness, G550.

WIND CAPACITIES (kPa)

BMT	Span Type	Limit State	SPAN (mm)						
			600	900	1200	1500	1800	2100	2400
0.35mm	Single	Serviceability	2.01	1.39	0.91	0.56	0.35	0.27	-
		Strength	8.70	6.39	4.58	3.26	2.42	2.08	-
	End	Serviceability	2.72	1.97	1.36	0.89	0.55	0.36	-
		Strength	7.80	5.92	4.42	3.29	2.54	2.17	-
	Internal	Serviceability	3.19	2.38	1.73	1.23	0.88	0.68	-
		Strength	8.70	7.45	6.25	5.09	3.98	2.92	-
0.42mm	Single	Serviceability	2.40	1.90	1.45	1.06	0.73	0.45	0.23
		Strength	8.70	7.53	6.50	5.61	4.85	4.23	3.75
	End	Serviceability	3.38	2.71	2.11	1.57	1.10	0.70	0.36
		Strength	9.40	8.01	6.80	5.77	4.92	4.24	3.75
	Internal	Serviceability	3.86	3.15	2.50	1.92	1.40	0.95	0.56
		Strength	9.40	8.25	7.20	6.25	5.40	4.64	3.99

Values applicable for use with steel supports of minimum 0.75mm thickness, G550.

ENGINEERING:

TESTING SYSTEMS : Stratco have developed purpose built testing equipment for the testing of cladding systems sufficient to ensure the structural adequacy of the product it produces.

COMPLIANCE : Wind Capacity Tables are based on testing in accordance with AS1562.1-1992 and AS4040.0, 1 & 2-1992. Span tables have been developed by determining wind pressures in accordance with AS4055-2012 for domestic applications. Capacity tables are in limit state format.

Walling calculations are based on Cpe=-0.65 and Cpi=0.2. A local pressure factor, KI=2.0 has been used for both strength and serviceability limit states.

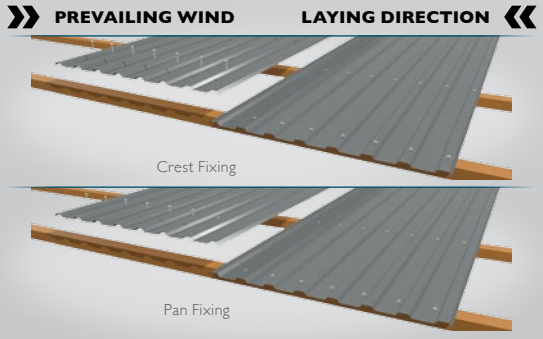
FIXING RECOMMENDATIONS

Note: The following recommendations apply to non-cyclonic areas.

Maxiclad sheets should be laid into the prevailing weather as shown to reduce the possibility of penetration of wind driven rain. They should be fixed within the recommended support spacings.

- Crest fixing - one fixing required per crest.
- Pan fixing - one fixing required per pan. Fasten adjacent to overlapping rib.
- Side lap fixing - recommended at maximum 900mm centres with sealed rivets or stitching screws.

WALLING LAYING PROCEDURE



FASTENER SIZE SELECTION

WALLING - CREST FIXING
One fixing required per crest

12 x 35mm
Self drilling and tapping screw with neoprene washer

12 x 50mm
Type 17 hex head screw with neoprene washer

WALLING - PAN FIXING
Fasten adjacent to overlapping rib

10 x 16mm
or
12 x 20mm
Self drilling and tapping screw with neoprene washer

10 x 25mm
or
12 x 25mm
Type 17 hex head screw with neoprene washer

If fixing over an insulation blanket the next standard screw length to that indicated may be required with minimum 25mm timber embedment to be maintained.

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