Stramit®

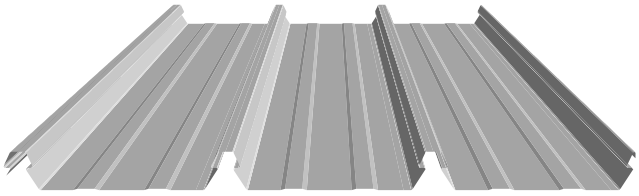
Cyclonic Areas Roof & Wall Cladding

Now includes LHL data

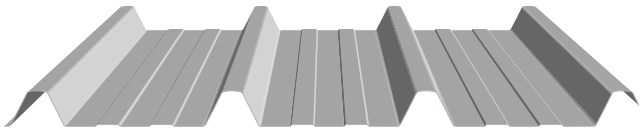
product technical design supplement

CYCLONE TESTING STATION SUPPORTER

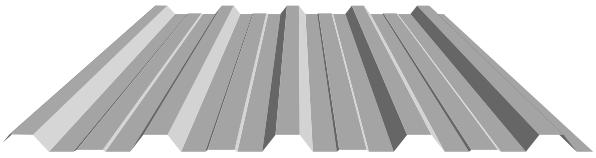
CYCLONIC AREAS
ROOF & WALL CLADDING



Stramit Speed Deck Ultra®



Stramit CapacityPLUS™



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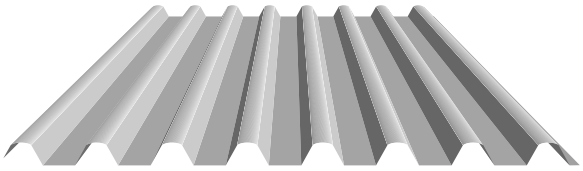

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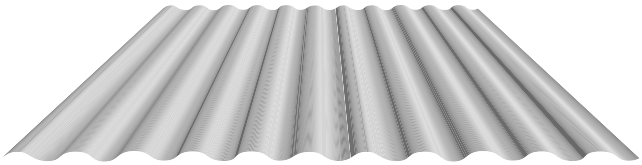
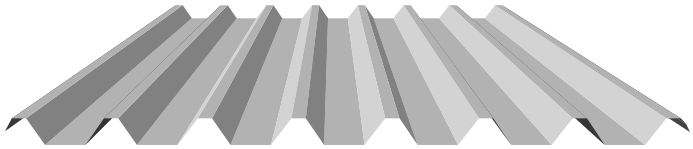


Stramit® Corrugated



Stramit Xtraspan™

Stramit Mini Corry®

Stramit Premier300™

IMPORTANT NOTICE AND DISCLAIMER

The information contained within this brochure is intended for general use and information only. Before application in a particular situation, Stramit recommends that you obtain appropriate independent qualified expert advice confirming the suitability of product(s) and information in question for the application proposed. While Stramit accepts its legal obligations, be aware however that to the extent permitted by law, Stramit disclaims all liability (including liability for negligence) for all loss and damage resulting from the direct or indirect use, or reliance on, the information provided in this brochure.

Selection & Specification

Introduction

Stramit® Cyclonic roof and wall cladding products are the ideal solution for regions that experience these demanding conditions. Stramit® cyclonic cladding provides outstanding strength and serviceability as well as peace of mind, without detracting from the attractive appearance of Stramit® cladding profiles.

Additional information can be found for all products in the specific Product Technical manuals.

Materials

Stramit® cladding is manufactured from hi-tensile G550 or G300 colour coated steel or zinc-aluminium alloy coated steel. Colour coated steels are in accordance with AS2728, the colour coated substrate and the Zinc-aluminium alloy coated (AZ150) are each in accordance with AS1397.

Stramit has a comprehensive range of colours available. Ask your nearest Stramit Building Products location for colour availability on the profile of your choice.

Note: Stramit® roofing and walling products are available in our range of premium materials and finishes and are offered throughout Australia. These include COLORBOND® Metallic, COLORBOND® Ultra, COLORBOND® Stainless, aluminium and copper. For further information on these products please contact your local Stramit office.
Please note that there is limited technical data available on these materials.

Roof and wall profiles

The following Stramit® products are intended for use as either wall or roof cladding. For comprehensive details of these products, including specifications, alternative thicknesses and fastening, refer to the product technical manual for each profile.

ROOF AND WALLING PRODUCTS		
	Roofing	**Walling**
Stramit Speed Deck Ultra®	✔	✘
Stramit CapacityPLUS®	✔	✘
Stramit Monoclad®	✔	✔
Stramit Longspan®	✔	✔
Stramit® Corrugated	✔	✔
Stramit Xtraspan™	✘	✔
Stramit Mini Corry®	✘	✔
Stramit Premier300™	✘	✔

Stramit® cladding is intended for use in commercial, industrial and residential roof or wall cladding applications. Do not use for any other purpose.

Testing

Ongoing research and development activity also ensures that Stramit® products are tested and or witnessed by independent organisations.

These include the Cyclone Testing Station (James Cook University) and the University of Adelaide.

The wind pressure capacities stated in this brochure are based on the testing regime described in AS1562.1-1992, AS4040.3-1992 and LHL tests from the BCA. The requirements for cyclonic regions within Australia are covered by this regime.

Cyclone Testing Station

Stramit Building Products has been a supporter of the North Queensland based Cyclone Testing Station for more than 15 years. This ensures that Stramit is in touch with the latest technical issues associated with tropical cyclone design.

CYCLONE TESTING STATION SUPPORTER

Darwin Deemed-to-Comply

Please contact your nearest Stramit Building Products branch for data tables or other information on the use of sheeting in this region. Alternatively refer to the NT BAC website www.nt.gov.au/bac for access to the Deemed-to-Comply Manual.

Architectural Specification

It is important to ensure that products of appropriate quality are used in construction. Specifications for each ***Stramit®*** sheeting product are contained on the Stramit Building Products website and can easily be downloaded to your documentation.

For specification of ***Stramit®*** Premium Materials and Finishes, refer to the ***Stramit®*** Premium Materials and Finishes Design Guide.

Adverse Conditions

Stramit® roof and wall cladding will give excellent durability in almost all locations. It is however important to choose the correct coating for each application environment as shown in the table below. Durability recommendations do vary based on the application of the product, in roofing or walling installations. Please read the tables below carefully.

suitability of coating type	roof sheeting - site exposure condition				wall cladding - distance from marine environment
	benign/ moderate	marine	severe marine	very severe marine	
ZnAl (AZ150) STEEL	✔	✘	✘	✘	>1km
COLORBOND®	✔	✔	✘	✘	>1km
COLORBOND® METALLIC	✔	✘	✘	✘	>1km
COLORBOND® ULTRA	N/A	N/A	✔	✘	501m-1000m
COLORBOND® STAINLESS	N/A	N/A	N/A	✔	0m-500m

The approximate site exposure conditions in the table above are defined below.

site exposure condition	roof sheeting - distance of site from	
	breaking surf/ exposed marire	calm marine
benign	>1km	>1km
moderate	401m-1000m	201-1000m
marine	201m-400m	101m-200m
severe marine	101m-200m	0m-100m
very severe marine	0m-100m	N/A

The suitability and exposure tables above are current at the time of publication and are guidelines only; conditions will vary from site to site. Please check the Bluescope Technical Bulletins at www.bluescopesteel.com.au for the latest information and guidance on selection, maintenance and durability. If uncertain about the appropriate coating for a particular application, or if the product is to be used in environments affected by industrial emissions, fossil fuel combustion, animal farming, or has unwashed areas, please contact your nearest Stramit office for advice.

MAXIMUM SPAN CHART FOR CREST/CLIP FIXED ROOFING WITHOUT CYCLONE ASSEMBLIES (mm) - (CYCLONIC)

Roof cladding	*thickness bmt (mm)*	*fasteners per sheet*	***pressure (kPa)*** *service-ability*	*strength**	**roofs** *double spans*	*equal spans*	*internal (end) span combination*	**overhangs** *free edge*	*stiffened edge*
C1 OR REGION C (SHELTERED SUBURBAN)									
Stramit Speed Deck Ultra®	0.42	1 clip	1.32	3.84	1350	1500	1600 (1300)	150	450
	0.48	1 clip	1.32	3.84	1350	1500	1600 (1300)	200	450
Stramit Monoclad®	0.42	4	1.32	3.84	600	700	750 (600)	100	200
	0.48	4	1.32	3.84	750	850	950 (750)	100	250
Stramit Longspan®	0.42	5	1.32	3.84	750	850	950 (750)	100	250
	0.48	5	1.32	3.84	850	950	1050 (800)	150	250
Stramit® Corrugated	0.42	5	1.32	3.84	850	900	1000 (800)	100	250
	0.48	5	1.32	3.84	1150	1200	1350 (1050)	100	300
	0.60	5	1.32	3.84	850	900	1000 (800)	100	250
C2 OR REGION C (EXPOSED SUBURBAN)									
Stramit Speed Deck Ultra®	0.42	1 clip	2.31	5.58	900	1100	1200 (1000)	100	250
	0.48	1 clip	2.31	5.58	1000	1100	1150 (950)	150	350
Stramit Monoclad®	0.42	4	2.31	5.58	–	450	500 (400)	50	150
	0.48	4	2.31	5.58	500	550	650 (500)	100	150
Stramit Longspan®	0.42	5	2.31	5.58	450	550	600 (450)	100	150
	0.48	5	2.31	5.58	600	700	750 (600)	100	200
Stramit® Corrugated	0.42	5	2.31	5.58	550	650	750 (600)	100	200
	0.48	5	2.31	5.58	800	900	1000 (800)	100	250
	0.60	5	2.31	5.58	550	650	750 (600)	100	200

* Pressure at edge of roof with local pressure factor of 2. Corner areas may experience higher pressures and may require reduced spans or increased fixing. Internal spans should have both end spans 20% shorter. **Values are only valid for use with steel members of 1.5mm or thicker.**
For more specific applications, cladding must be designed to the pressure and foot traffic limitations given in the following pages of this brochure.

MAXIMUM SPAN CHART FOR CREST FIXED ROOFING WITH CYCLONE ASSEMBLIES (mm) - (CYCLONIC)

Roof cladding	*thickness bmt (mm)*	*fasteners per sheet*	***pressure (kPa)*** *service-ability*	*strength**	**roofs** *double spans*	*equal spans*	*internal (end) span combination*	**overhangs** *free edge*	*stiffened edge*
C1 OR REGION C (SHELTERED SUBURBAN)									
Stramit CapacityPLUS®	0.42	3	1.32	3.84	–	600	900 (700)	150	400
	0.48	3	1.32	3.84	800	1050	1300 (1050)	150	250
Stramit Monoclad®	0.42	4	1.32	3.84	1300	1350	1500 (1200)	150	400
	0.48	4	1.32	3.84	1700	1700	1950 (1550)	150	450
Stramit Longspan®	0.42	5	1.32	3.84	1450	1550	1650 (1300)	150	400
	0.48	5	1.32	3.84	1650	1800	1800 (1400)	150	400
Stramit® Corrugated	0.42	5	1.32	3.84	900	900	1200 (950)	100	250
	0.48	5	1.32	3.84	1200	1200	1600 (1250)	150	350
	0.60	5	1.32	3.84	900	900	1200 (950)	100	250
C2 OR REGION C (EXPOSED SUBURBAN)									
Stramit CapacityPLUS®	0.42	3	2.31	5.58	–	–	–	–	–
	0.48	3	2.31	5.58	450	550	650 (500)	100	150
Stramit Monoclad®	0.42	4	2.31	5.58	950	1100	1200 (950)	150	350
	0.48	4	2.31	5.58	1300	1450	1550 (1200)	150	350
Stramit Longspan®	0.42	5	2.31	5.58	1100	1200	1300 (1000)	100	300
	0.48	5	2.31	5.58	1150	1250	1400 (1100)	150	350
Stramit® Corrugated	0.42	5	2.31	5.58	850	900	1050 (800)	100	250
	0.48	5	2.31	5.58	1100	1200	1300 (1000)	100	300
	0.60	5	2.31	5.58	850	900	1050 (800)	100	250

* Pressure at edge of roof with local pressure factor of 2. Corner areas may experience higher pressures and may require reduced spans or increased fixing. Internal spans should have both end spans 20% shorter. **Values are only valid for use with steel members of 1.5mm or thicker.**
For more specific applications, cladding must be designed to the pressure and foot traffic limitations given in the following pages of this brochure.

MAXIMUM SPAN CHART FOR PAN FIXED WALLING (mm) - (CYCLONIC)

Wall sheeting	thickness bmt (mm)	fasteners per sheet	pressure (kPa) service-ability	pressure (kPa) strength*	walls double spans	walls equal spans	walls internal (end) span combination	overhangs free edge	overhangs stiffened edge
C1 OR REGION C (SHELTERED SUBURBAN)									
Stramit Monoclad®	0.42	4	0.99	3.07	1100	1100	1350 (1100)	100	250
Stramit Longspan®	0.42	4	0.99	3.07	800	850	950 (750)	100	250
Stramit® Corrugated	0.42	5	0.99	3.07	1350	1350	1750 (1450)	100	250
Stramit Mini Corry®	0.42	7	0.99	3.07	850	900	900 (750)	100	250
	0.48	7	0.99	3.07	900	900	900 (750)	100	250
Stramit® Premier 300™	0.55	1	0.99	3.07	550	550	550 (450)	50	150
C2 OR REGION C (EXPOSED SUBURBAN)									
Stramit Monoclad®	0.42	4	1.73	4.47	750	750	800 (600)	50	200
Stramit Longspan®	0.42	4	1.73	4.47	-	-	650 (500)	50	150
Stramit® Corrugated	0.42	5	1.73	4.47	850	850	1050 (800)	100	200
Stramit Mini Corry®	0.42	7	1.73	4.47	650	700	750 (600)	50	200
	0.48	7	1.73	4.47	750	800	850 (700)	100	200

* Pressure at wall corner with local pressure factor of 2.
Internal spans should have both end spans 20% shorter. **Values are only valid for use with steel members of 1.5mm or thicker.**
For more specific applications, cladding must be designed to the pressure limitations given in the following pages of this brochure.

Stramit® Roof Battens

Stramit® Roof Battens can be used with metal sheeting. The relevant performance can be obtained from the following sections.

DARWIN DEEMED-TO-COMPLY

Information on the use of the ***Stramit® Cyclonic Roof Batten*** in the Darwin area can be found in the deemed to comply sheet M/652/01 in the Darwin Area Manual. These sheets can also be obtained from the local Stramit Building Products office or directly from the website www.nt.gov.au/bac. Each application must conform to the specific details outlined in Design Data Sheets.

Notes to tables on page 7

Design screw pull out values from battens assumed to be 1.02kN (Type 17s) and 0.66kN (Batten teks and Zips) for crest fixed fasteners at strength limit state.
If the roofing screws do not meet this requirement, the roof sheeting spans may need to be reduced.
Note that at the truss spacing (batten spans) shown foot traffic loads to NASH Standard Part 1 have been accounted for.
Tables based on testing to the BCA.
All batten spans and spacings (sheeting spans) shown are for three or more spans.
Strength limit-state pressures in accordance with AS4055, with K_l = 2.0 in local pressure areas. Reduction of 0.04kPa to allow for self weight of roof.
All other information including fastener details as per this manual.

Spacing may be limited by truss selection – see left-hand columns
Spacing may be limited by sheeting selection – see right-hand columns
Spacing will be limited by sheeting selection – see right-hand columns

Stramit® Top Hats

Where Top Hats are to be used as supports, please contact your local Stramit office for further technical information.

Stramit® 0.75 Cyclonic Roof Batten

Three or more equal spans for sheeting - Local pressure zones *

STRAMIT® 0.75 CYCLONIC ROOF BATTENS MAXIMUM BATTEN SPACING (mm)

AS4055 Load category	Serviceability Wind Pressure (kPa)	Strength Wind Pressure (kPa)	Truss spacing (mm), fastening and truss material								Stramit® sheeting, thickness bmt (mm) & fasteners per sheet																			
											No 14 - 10 x 50 Type 17 screws										Buildex® 15 - 15 x 41 Batten Tek or M6 - 11 x 50 RoofZip											
			2 x No 14 screws into 1.5 G450 or 2 x No 12 Type 17's into timber or equivalent				2 x No 12 screws into 1.5 G450 or equivalent				Corrugated						Monoclad®				Corrugated						Monoclad®				Longspan®			
											0.42		0.48		0.60		0.42		0.48		0.42		0.48		0.60		0.42		0.48		0.42		0.48	
			450	600	900	1200	450	600	900	1200	5 screws	5 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	4 screws	4 assy with caps	4 screws	4 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	4 screws	4 assy with caps	4 screws	4 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps
C1	1.23	3.71	1950	1460	970	730	1300	980	650	490	900	900	1200	1200	900	900	700	1300	850	1300	900	900	1050	1050	900	900	700	850	850	850	900	1150	1000	1150
C2	1.83	5.54	1300	980	650	490	870	650	430	320	650	900	900	1100	650	900	450	850	550	850	650	700	700	700	650	700	450	550	550	550	550	750	700	750
C3	2.65	8.17	880	660	440	330	590	440			450	650	550	700	450	650				550	450	450	450	450	450	450				350		500	450	500
C4	3.63	11.05	650	490	320		430	320																										

Internal spans for sheeting - Local pressure zones *

STRAMIT® 0.75 CYCLONIC ROOF BATTENS MAXIMUM BATTEN SPACING (mm)

AS4055 Load category	Serviceability Wind Pressure (kPa)	Strength Wind Pressure (kPa)	Truss spacing (mm), fastening and truss material								Stramit® sheeting, thickness bmt (mm) & fasteners per sheet																			
											No 14 - 10 x 50 Type 17 screws										Buildex® 15 - 15 x 41 Batten Tek or M6 - 11 x 50 RoofZip											
			2 x No 14 screws into 1.5 G450 or 2 x No 12 Type 17's into timber or equivalent				2 x No 12 screws into 1.5 G450 or equivalent				Corrugated						Monoclad®				Corrugated						Monoclad®				Longspan®			
											0.42		0.48		0.60		0.42		0.48		0.42		0.48		0.60		0.42		0.48		0.42		0.48	
			450	600	900	1200	450	600	900	1200	5 screws	5 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	4 screws	4 assy with caps	4 screws	4 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	4 screws	4 assy with caps	4 screws	4 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps
C1	1.23	3.71	1950	1460	970	730	1300	980	650	490	1000	1200	1350	1600	1000	1200	750	1400	1000	1400	1000	1050	1050	1050	1000	1050	750	850	850	850	950	1250	1050	1250
C2	1.83	5.54	1300	980	650	490	870	650	430	320	750	1050	1000	1200	750	1050	500	950	650	950	700	700	700	700	700	700	500	550	550	550	600	850	750	850
C3	2.65	8.17	880	660	440	330	590	440			500	700	650	800	500	700		550	450	550	450	450	450	450	450	450		350	350	350		550	500	550
C4	3.63	11.05	650	490	320		430	320																										

Note: Internal sheeting spans should have both end spans 20% shorter.

Internal spans for sheeting - Internal pressure areas

STRAMIT® 0.75 CYCLONIC ROOF BATTENS MAXIMUM BATTEN SPACING (mm)

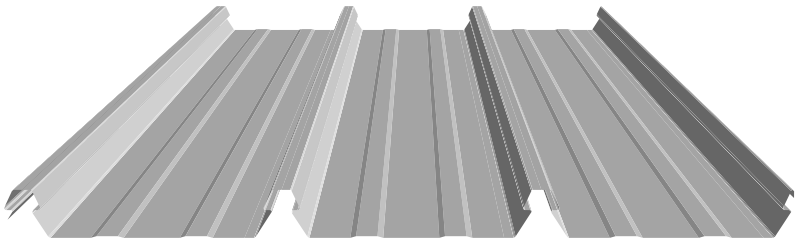
AS4055 Load category	Serviceability Wind Pressure (kPa)	Strength Wind Pressure (kPa)	Truss spacing (mm), fastening and truss material								Stramit® sheeting, thickness bmt (mm) & fasteners per sheet																			
											No 14 - 10 x 50 Type 17 screws										Buildex® 15 - 15 x 41 Batten Tek or M6 - 11 x 50 RoofZip											
			2 x No 14 screws into 1.5 G450 or 2 x No 12 Type 17's into timber or equivalent				2 x No 12 screws into 1.5 G450 or equivalent				Corrugated						Monoclad®				Corrugated						Monoclad®				Longspan®			
											0.42		0.48		0.60		0.42		0.48		0.42		0.48		0.60		0.42		0.48		0.42		0.48	
			450	600	900	1200	450	600	900	1200	5 screws	5 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	4 screws	4 assy with caps	4 screws	4 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps	4 screws	4 assy with caps	4 screws	4 assy with caps	5 screws	5 assy with caps	5 screws	5 assy with caps
C1	0.68	2.36	2000	2000	1530	1150	2000	1540	1020	770	1200	1200	1600	1600	1200	1200	1100	1700	1600	2000	1200	1200	1600	1600	1200	1200	1100	1300	1300	1300	1300	1800	1800	1800
C2	1.00	3.53	2000	1540	1020	770	1370	1030	680	510	1050	1200	1400	1600	1050	1200	800	1500	1050	1500	1050	1100	1100	1100	1050	1100	800	850	850	850	1000	1300	1100	1300
C3	1.46	5.22	1380	1040	690	520	920	690	460	340	800	1100	1050	1250	800	1100	550	1000	700	1000	750	750	750	750	750	750	550	600	600	600	650	900	800	900
C4	2.00	7.06	1020	770	510	380	680	510	340		550	850	750	950	550	850		750	500	750	550	550	550	550	550	550		400	400	400	450	650	600	650

* Local pressure zones in tables are valid for local pressure factor of 2. In corner areas with higher local pressure factors, spans or spacing may have to be reduced or fixing increased.

Note: Internal sheeting spans should have both end spans 20% shorter.

Please refer to page 6 for notes on tables.

STRAMIT SPEED DECK ULTRA®



Applications

The visual appeal, strength, wide cover, light weight and weather-resistance of ***Stramit Speed Deck Ultra***® concealed fixed decking make it perfect for all commercial roofing applications. Its excellent strength and ease of installation allow for long, economical spans. The large water-carrying capacity and weather-tightness permit very low roof pitches, leading to economies in the building structure.

Stramit Speed Deck Ultra® concealed fixed decking may also be used for domestic applications.

Features

- *Wide Cover* – Fewer sheets and quicker installation.
- *Deep Ribs* – Stronger and stiffer with better water-carrying capacity; roof slopes as low as 1°.
- *Full Length Clips* – To locate ribs and compress insulation.
- *Four Fixing Points Per Clip* – Centralised fastening for unsurpassed strength.
- *Hexagon Head Screws* – Bigger, stronger and easier to install, with less wastage.
- *Outstanding Wind Load Resistance* – Improved security with lower purlin costs.
- *Spring Curving* – Data for arched and curved roofs.
- *Automatic Bird Proofing* – Built-in accessory with no need for extra components.

Stramit Speed Deck Ultra® fasteners

Stramit Speed Deck Ultra® concealed fixed decking is attached to proprietory Stramit cyclonic fixing clips that are screwed to the supporting members.
All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Stramit Farlap® Roof Lap Joint System

Stramit Farlap® can be used to provide a sealed joint between overlapping sheets of ***Stramit Speed Deck Ultra***® decking. See ***Stramit Farlap***® ***Product Technical Supplement*** on the Stramit® website for details.

Water Carrying

Stramit Speed Deck Ultra® cladding has excellent water-carrying capacity. This and the decking stiffness enable roof slopes to be as low as one degree for many applications. Roof run lengths are the combined lengths of all roof elements contributing to a single pan drainage path. This can include the roof length upstream of a roof penetration that concentrates flow into other pans.

The table below gives slopes for 100 year return period rainfall intensity.

STRAMIT SPEED DECK ULTRA® DECKING – MINIMUM ROOF SLOPE (degrees)

rainfall intensity mm/hr	total roof run length (m)									max roof run length(m) at min slope
	70	80	90	100	110	120	130	140	150	
150										195
175	*Minimum*								1.0	167
200	*Slope 1°*							1.0	1.1	146
225						1.0	1.0	1.3	1.6	130
250					1.0	1.1	1.4	1.8	2.1	117
275				1.0	1.1	1.5	1.9	2.3	2.7	106
300				1.1	1.5	1.9	2.4	2.9	3.4	97
325			1.0	1.4	1.9	2.4	2.9	3.5	4.2	90
350		1.0	1.3	1.8	2.3	2.9	3.5	4.2	5.0	83
375		1.1	1.6	2.1	2.7	3.4	4.2	5.0	5.9	78
400	1.0	1.4	1.9	2.5	3.2	4.0	4.9	5.8	6.8	73

Note: Depth of flow in pan = 60% height of underlap (agreed industry standard).

For more information on water carrying performance of ***Stramit Speed Deck Ultra***® decking and other Stramit® roofing profiles refer to Stramit's Roof Slope Guide.

Maximum water protection is also ensured by the absence of fastener penetrations when using ***Stramit Speed Deck Ultra***® decking.

Darwin Area

Information on the use of ***Stramit Speed Deck Ultra***® in the Darwin area can be found in deemed-to-comply sheet M/170/01 in the Darwin Area Manual. This is also available from Stramit.

Sheeting Mass

STRAMIT SPEED DECK ULTRA® DECKING - SHEETING MASS (kg/m² OF ROOF AREA)			
thickness	**grade**	**ZnAl (AZ 150)**	**COLORBOND®**
0.42mm BMT	G550	4.66	4.74
0.48mm BMT	G550	5.29	5.37

Foot Traffic

STRAMIT SPEED DECK ULTRA® DECKING - FOOT TRAFFIC LIMITED SPANS (mm)		
steel thickness	**span type**	**Foot traffic limits Normal**
0.42	internal	2100
	equal	1700
	double	1700
0.48	internal	2700
	equal	2300
	double	2300

Tables are based on tests to AS1562 and AS4040 parts 0 and 1.

Pressures

STRAMIT SPEED DECK ULTRA® DECKING - SERVICEABILITY LIMIT STATE CAPACITY								
			pressure (kPa) at the spans (mm) shown					
			Roof sheeting (Clip fixed)					
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**
0.42	1 clip and 3 screws	internal	3.23	3.09	2.81	2.53	2.24	1.96
		equal	3.44	3.25	2.86	2.47	2.08	1.68
		double	2.69	2.57	2.33	2.08	1.84	1.60
0.48	1 clip and 3 screws	internal	3.59	3.43	3.12	2.80	2.49	2.18
		equal	3.82	3.60	3.17	2.74	2.30	1.87
		double	2.98	2.85	2.58	2.31	2.04	1.78

STRAMIT SPEED DECK ULTRA® DECKING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)								
			pressure (kPa) at the spans (mm) shown					
			Roof sheeting (Clip fixed)					
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**
0.42*	1 clip and 3 screws	internal	10.69	9.11	7.52	5.76	4.43	2.98
		equal	9.72	8.28	6.84	5.24	4.03	2.71
		double	8.55	7.29	6.02	4.61	3.55	2.38
0.48	1 clip and 3 screws	internal	10.69	9.50	7.92	5.54	4.25	3.36
		equal	9.72	8.64	7.20	5.04	3.87	3.05
		double	8.55	7.60	6.34	4.44	3.40	2.68

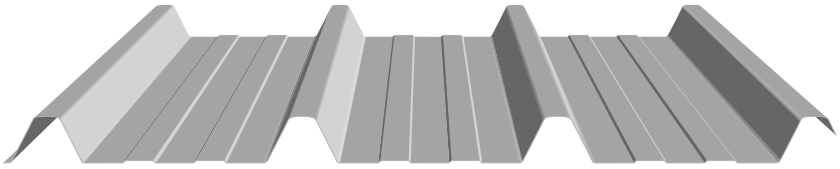
* Where ***Stramit FarLap®*** Roof Lap Joint System is used, the strength limit state capacity given in the table for 0.42mm decking on the upper run of sheeting should be reduced by 10% for double and equal spans. The reduction must also be applied in internal spans within three spans of the FarLap® joint.

No reduction is necessary to the capacities for the lower run of sheeting from the FarLap® joint, provided the decking is held at every support by the ***Stramit Speed Deck Ultra®*** steel clips.

Tables are based on testing to AS1562 and AS4040 parts 0,1,2 and 3, and the BCA. Internal spans must have both end spans 20% shorter.

Values only valid for use with steel support members of 1.5mm or thicker.

STRAMIT CapacityPLUS™



Applications

The drainage capacity, strength, wide cover, light weight and weather-resistance of ***Stramit CapacityPLUS***™ deep roof cladding make it ideal for large commercial roofing and walling applications. Its excellent strength and ease of installation allow for long, economical spans. The large water-carrying capacity and weather-tightness permit very low roof pitches, leading to economies in the building structure.

Features

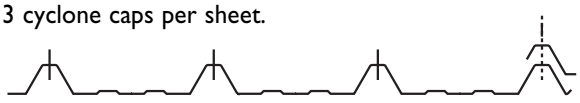
- *High 50mm ribs* – Excellent water-carrying capacity at low roof pitch and superior profile rigidity.
- *Simple Rib Shape* – Enables reliable screw fixing, and easy to trim and notch flashings.
- *Wide 810mm Cover* – Fewer sheets enable easy handling and fast laying, as well as providing cost economy.
- *Screw Fixed* – Allows fast and flexible high-wind installation techniques such as 'tack and screw-off'.
- *Range of Materials* – Choice of materials and finishes for enhanced durability options.
- *Low 1° Pitch* – Building economies from low wall heights and structure reduction.
- *Fully Tested* – In-house and independent testing for reliable design data and peace of mind.
- *Nesting Profile* – Flat packs for economical transport and site crane handling.

Stramit CapacityPLUS™ fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Fastener Locations

Stramit CapacityPLUS™ cladding is rib fixed using 3 cyclone caps per sheet.



Water Carrying

Stramit CapacityPLUS™ cladding has excellent water-carrying capacity enabling roof slopes to be as low as 1° for many applications. Roof run lengths are the combined lengths of all roof elements contributing to a single pan drainage path. This can include the roof length upstream of a roof penetration that concentrates flow into other pans.

The table below gives slopes for 100 year return period rainfall intensity.

STRAMIT CapacityPLUS™ CLADDING – MINIMUM ROOF SLOPE (degrees)

rainfall intensity mm/hr	total roof run length (m)						max roof run length(m) at min slope
	100	120	140	160	180	200	
150						1.0	232
175	*Minimum*				1.0	1.1	198
200	*Slope 1°*			1.0	1.2	1.6	174
225			1.0	1.2	1.6	2.2	154
250			1.1	1.6	2.2	2.9	139
275		1.0	1.4	2.1	2.8	3.7	126
300		1.2	1.8	2.6	3.6	4.6	116
325	1.0	1.5	2.3	3.2	4.3	5.6	107
350	1.1	1.8	2.8	3.9	5.2	6.6	99
375	1.3	2.2	3.3	4.6	6.1	7.7	92
400	1.6	2.6	3.9	5.4	7.0	8.9	87

Note: Depth of flow in pan = 60% height of underlap (agreed industry standard).

Values are given for normal roof drainage applications, where the minimum slopes are calculated as for other Stramit® roofing profiles.

For more information on water carrying capacity performance of the ***Stramit CapacityPLUS***™ cladding and other Stramit® roofing profiles refer to Stramit's Roof Slope Guide.

Sheeting Mass

STRAMIT CapacityPLUS™ CLADDING - SHEETING MASS (kg/m² OF ROOF AREA)			
thickness	**grade**	**ZnAl (AZ 150)**	**COLORBOND®†**
0.42mm BMT	G550	3.78	3.84
0.48mm BMT	G550	4.86	4.93

† Limited choice of colours available.

Please contact your nearest Stramit office for more information.

Foot Traffic

STRAMIT CapacityPLUS™ CLADDING - FOOT TRAFFIC LIMITED SPANS (mm)		
thickness bmt	**span type**	**Foot traffic limits Normal**
0.42	internal	3000
	equal	3000
	double	3000
0.48	internal	3000
	equal	3000
	double	3000

Tables are based on tests to AS1562 and AS4040 parts 0 and 1.

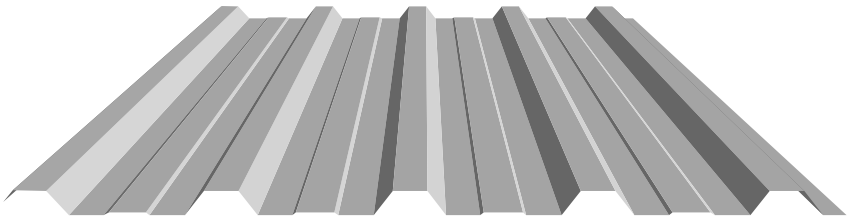
Pressures

STRAMIT CapacityPLUS™ CLADDING - SERVICEABILITY LIMIT STATE CAPACITY								
			pressure (kPa) at the spans (mm) shown					
			Roof sheeting (Crest fixed)					
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**
0.42	3 with cyclone caps	internal	2.38	2.10	1.71	1.60	1.48	1.27
		equal	1.90	1.90	1.87	1.84	1.80	1.47
		double	1.90	1.90	1.87	1.84	1.80	1.47
0.48	3 with cyclone caps	internal	3.13	3.02	2.76	2.69	2.62	2.24
		equal	3.06	2.92	2.59	2.42	2.24	1.80
		double	3.06	2.92	2.59	2.42	2.24	1.80

STRAMIT CapacityPLUS™ CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)								
			pressure (kPa) at the spans (mm) shown					
			Roof sheeting (Crest fixed)					
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**
0.42	3 with cyclone caps	internal	4.54	4.33	3.85	3.32	2.73	2.08
		equal	4.13	3.93	3.50	3.02	2.48	1.89
		double	3.63	3.46	3.08	2.65	2.18	1.67
0.48	3 with cyclone caps	internal	7.27	5.98	4.54	4.00	3.64	2.73
		equal	6.61	5.44	4.13	3.64	3.31	2.48
		double	5.82	4.79	3.63	3.20	2.91	2.18

Tables are based on testing to AS1562 and AS4040 parts 0,1,2 and 3, and the BCA. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker.

STRAMIT MONOCLAD®



Applications

The visual appeal, strength, wide cover, light weight and weather-resistance of ***Stramit Monoclad***® cladding make it ideal for all commercial roofing and walling applications. Its excellent strength and ease of installation allow for long, economical spans. The large water-carrying capacity and weather-tightness permit very low roof pitches, leading to economies in the building structure.

Features

- *Economical* – unique blend of characteristics provides a low installed cost.
- *Simple Installation* – through-fixing and easy notching of flashing.
- *762mm Cover* – quick installation and easy handling.
- *Hi-tensile Steel* – light weight and high strength.
- *Deep Ribs* – excellent spanning capability with good water-carrying capacity.
- *Domed Crest* – greater foot traffic performance.
- *Anti-capillary Side Laps* – improved weather resistance.
- *2° Minimum Pitch* – reduces support structure.
- *Fully Tested* – full range of load performance tables to suit almost any application.

Stramit Monoclad® fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Fastener Locations

Stramit Monoclad® roof cladding is fixed using 4 fasteners per sheet at each batten/purlin to meet the required performance values.

CREST FASTENER LOCATIONS

PAN FASTENER LOCATIONS (WALL ONLY)

Water Carrying

Stramit Monoclad® cladding has excellent water-carrying capacity enabling roof slopes to be as low as 2° for many applications. Roof run lengths are the combined lengths of all roof elements contributing to a single pan drainage path. This can include the roof length upstream of a roof penetration that concentrates flow into other pans.

The table below gives slopes for 100 year return period rainfall intensity.

STRAMIT MONOCLAD® CLADDING – MINIMUM ROOF SLOPE (degrees)

rainfall intensity mm/hr	total roof run length (m)											max roof run length(m) at min slope
	30	40	50	60	70	80	90	100	110	120	130	
150								2.0	2.3	2.9	3.6	105
175	*Minimum*					2.0	2.0	2.7	3.5	4.3	5.2	90
200	*Slope 2°*					2.1	2.9	3.8	4.8	5.9	7.1	78
225					2.0	2.9	3.9	5.1	6.3	7.7	9.2	70
250				2.0	2.7	3.8	5.1	6.5	8.0	9.7	12	63
275				2.3	3.5	4.8	6.3	8.0	9.9	12	15	57
300			2.0	2.9	4.3	5.9	7.7	9.7	12	15	17	52
325			2.2	3.6	5.2	7.1	9.2	12	15	17	20	48
350			2.7	4.3	6.2	8.3	11	14	17	20	24	45
375		2.0	3.2	5.1	7.2	9.7	13	16	19	23		42
400	2.0	2.1	3.8	5.9	8.3	12	15	18	22			39

Exceeds the scope of this manual

Note: Depth of flow in pan = 60% height of underlap (agreed industry standard)

For more information on water carrying performance of ***Stramit Monoclad***® cladding and other Stramit roofing profiles refer to Stramit's Roof Slope Guide.

Darwin Area

Information on the use of ***Stramit Monoclad***® cladding in the Darwin area can be found in deemed-to-comply sheets M/148/01 and M/240/01 in the Darwin Area Manual. These are also available from Stramit.

Sheeting Mass

STRAMIT MONOCLAD® CLADDING - SHEETING MASS (kg/m² OF ROOF AREA)			
thickness	**grade**	**ZnAl (AZ 150)**	**COLORBOND®**
0.42mm BMT	G550	4.28	4.35
0.48mm BMT	G550	4.86	4.93

Foot Traffic

STRAMIT MONOCLAD® CLADDING- FOOT TRAFFIC LIMITED SPANS (mm)		
thickness bmt	**span type**	**Foot traffic limits Normal**
0.42	internal	1700
	equal	1350
	double	1350
0.48	internal	2300
	equal	1700
	double	1700

Tables are based on tests to AS1562 and AS4040 parts 0 and 1.

Pressures

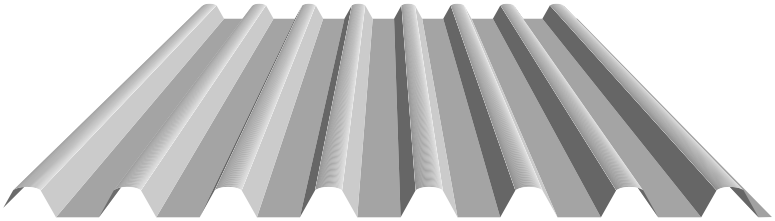
STRAMIT MONOCLAD® CLADDING - SERVICEABILITY LIMIT STATE CAPACITY													
pressure (kPa) at the spans (mm) shown													
			Roof sheeting (Crest fixed)							***Wall cladding (Pan fixed)***				
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**	**2100**	**600**	**900**	**1200**	**1500**	**1800**
0.42	4	internal	5.41	4.91	2.94	2.18	1.57	1.21		4.06	2.80	2.40	2.15	1.90
		equal	5.00	4.46	2.67	1.98	1.43	1.34		4.06	2.50	2.20	1.55	1.07
		double	4.06	3.92	2.35	1.74	1.26	0.97		4.06	2.50	2.20	1.55	1.13
0.48	4	internal	7.28	5.91	4.05	3.03	2.42	2.28	1.72					
		equal	5.07	5.07	3.68	2.75	2.20	2.05	1.49					
		double	4.54	4.54	3.24	2.42	1.93	1.82	1.38					
0.42	4 with cyclone caps	internal	5.41	5.41	5.41	3.75	2.76	2.10						
		equal	5.00	5.00	5.00	2.87	1.88	1.34						
		double	4.06	4.06	4.06	2.34	1.55	1.13						
0.48	4 with cyclone caps	internal	7.28	7.28	7.28	4.44	3.11	2.37	1.91					
		equal	5.07	5.07	5.07	3.76	2.78	2.05	1.49					
		double	4.54	4.54	4.54	3.52	2.70	2.05	1.55					

STRAMIT MONOCLAD® CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)													
pressure (kPa) at the spans (mm) shown													
			Roof sheeting (Crest fixed)							***Wall cladding (Pan fixed)***				
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**	**2100**	**600**	**900**	**1200**	**1500**	**1800**
0.42	4	internal	6.63	4.91	2.94	2.18	1.57	1.21		5.94	3.78	3.24	2.90	2.57
		equal	6.03	4.46	2.67	1.98	1.43	1.10		5.94	3.38	2.97	2.43	1.89
		double	5.31	3.92	2.35	1.74	1.26	0.97		5.94	3.38	2.97	2.43	1.89
0.48	4	internal	8.18	5.91	4.05	3.03	2.42	2.28	1.72					
		equal	7.44	5.37	3.68	2.75	2.20	2.07	1.56					
		double	6.55	4.73	3.24	2.42	1.93	1.82	1.38					
0.42	4 with cyclone caps	internal	8.64	8.15	7.27	5.69	3.85	2.17						
		equal	7.85	7.41	6.61	5.18	3.50	1.97						
		double	6.91	6.52	5.82	4.55	3.08	1.73						
0.48	4 with cyclone caps	internal	14.3	12.8	10.00	7.60	5.86	4.37	3.48					
		equal	13.1	11.6	9.09	6.91	5.33	3.97	3.16					
		double	11.5	10.2	8.00	6.08	4.69	3.49	2.78					

Shaded areas are outside of recommended foot traffic limits

Tables are based on testing to AS1562 and AS4040 parts 0,1,2 and 3, and the BCA. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker.

STRAMIT LONGSPAN®



Applications

The striking linearity, strength, wide cover, light weight and weather-resistance of ***Stramit Longspan***® cladding make it ideal for commercial roofing and walling applications. Its excellent strength and ease of installation allows long, economical spans. Good water-carrying capacity and weather-tightness permit very low roof pitches, leading to economies in the building structure.

Stramit Longspan® cladding is also used in domestic applications, where a striking but uniform appearance is desired.

Features

- *700mm Cover* – Quick installation and easy handling.
- *Easy Fixing* – Conventional through-fix screws maximise performance and installation.
- *Hi-tensile Steel* – Light weight and high strength with improved damage resistance.
- *1.5° Minimum Roof Pitch* – light weight and high strength.
- *Design Flexibility* – Long lengths and anti-capillary side laps enable Stramit Longspan® cladding to be used effectively on applications ranging from vertical wall cladding and fascia down to roofs with pitches as low as 1.5°.
- *Fully Tested* – Full range of load performance tables to suit most applications.
- *Extended Spans* – Strength and rigidity of the profile allows for economical construction.

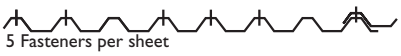
Stramit Longspan® fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Fastener Locations

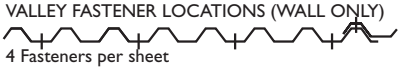
Stramit Longspan® cladding can be fixed with either 4 (walling only) or 5 fasteners/cyclone caps per sheet at each batten/purlin to meet the required performance values.

CREST FASTENER LOCATIONS



5 Fasteners per sheet

VALLEY FASTENER LOCATIONS (WALL ONLY)



4 Fasteners per sheet

Water Carrying

Stramit Longspan® cladding has a superior water-carrying capacity, to most close pitched trapezoidal profiles. This and the decking stiffness enable roof slopes to be as low as 1.5° for many applications. Roof run lengths are the combined lengths of all roof elements contributing to a single pan drainage path. This can include the roof length upstream of a roof penetration that concentrates flow into other pans.

The table below gives slopes for 100 year return period rainfall intensity.

STRAMIT LONGSPAN® CLADDING – MINIMUM ROOF SLOPE (degrees)

rainfall intensity mm/hr	total roof run length (m)											max roof run length(m) at min slope
	20	25	30	40	50	60	70	80	90	100	110	
150					1.5	2.6	3.8	5.2	6.9	8.7	11	50
175	*Minimum*			1.5	2.4	3.8	5.5	7.4	9.7	13	15	42
200	*Slope 1.5°*			1.9	3.3	5.2	7.4	10	13	17	20	37
225				2.6	4.5	6.9	9.7	13	17	21	25	33
250			1.5	3.3	5.7	8.7	13	17	21			30
275			2.0	4.2	7.1	11	15	20	25			27
300		1.5	2.6	5.2	8.7	13	18	24				25
325		1.9	3.1	6.3	11	16	21					23
350		2.4	3.8	7.4	13	18	25					21
375	1.5	2.8	4.5	8.7	14	21						20
400	1.9	3.3	5.2	10	17	24						18

Exceeds the scope of this manual

Note: Depth of flow in pan = 60% height of underlap (agreed industry standard).

For more information on water carrying performance of ***Stramit Longspan***® cladding and other Stramit® roofing profiles refer to Stramit's Roof Slope Guide.

Darwin Area

Information on the use of ***Stramit Longspan***® cladding in the Darwin area can be found in deemed-to-comply sheet M/147/01 in the Darwin Area Manual. This is also available from Stramit.

Sheeting Mass

STRAMIT LONGSPAN® CLADDING - SHEETING MASS (kg/m² OF ROOF AREA)			
thickness	**grade**	**ZnAl (AZ 150)**	**COLORBOND®**
0.42mm BMT	G550	4.66	4.74
0.48mm BMT	G550	5.29	5.37

Foot Traffic

STRAMIT LONGSPAN® CLADDING- FOOT TRAFFIC LIMITED SPANS (mm)		
thickness bmt	**span type**	**Foot traffic limits Normal**
0.42	internal	2100
	equal	1750
	double	1750
0.48	internal	2700
	equal	2250
	double	2250

Tables are based on tests to AS1562 and AS4040 parts 0 and 1.

Pressures

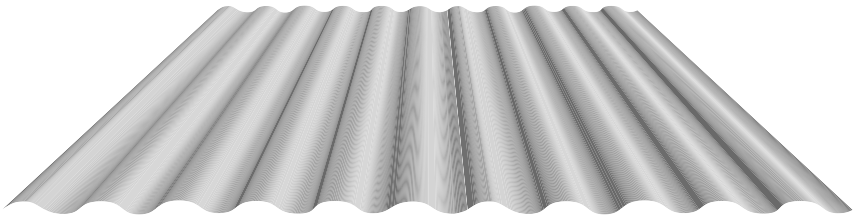
STRAMIT LONGSPAN® CLADDING - SERVICEABILITY LIMIT STATE CAPACITY												
pressure (kPa) at the spans (mm) shown												
			Roof sheeting (Crest fixed)						***Wall cladding (Pan fixed)***				
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**	**600**	**900**	**1200**	**1500**	**1800**
0.42	5 (4 for walling)	internal	5.58	5.58	4.09	2.73	1.96	1.51	4.98	3.32	2.49	1.99	1.66
		equal	4.93	4.93	3.72	2.48	1.78	1.37	4.44	2.96	2.22	1.77	1.48
		double	4.33	4.33	3.27	2.18	1.57	1.21	4.05	2.70	2.03	1.62	1.28
0.48	5	internal	8.67	7.38	4.54	3.18	2.69	2.45					
		equal	7.17	6.71	4.13	2.89	2.44	2.23					
		double	4.97	4.97	3.63	2.54	2.15	1.96					
0.42	5 with cyclone caps	internal	5.58	5.58	5.58	4.52	3.60	2.82					
		equal	4.93	4.93	4.93	3.78	2.82	2.05					
		double	4.33	4.33	4.33	3.60	2.87	2.08					
0.48	5 with cyclone caps	internal	8.67	8.67	8.67	6.31	4.57	3.35					
		equal	7.17	7.17	7.17	4.88	3.35	2.42					
		double	4.97	4.97	4.97	3.94	3.09	2.39					

STRAMIT LONGSPAN® CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)												
pressure (kPa) at the spans (mm) shown												
			Roof sheeting (Crest fixed)						***Wall cladding (Pan fixed)***				
thickness bmt (mm)	*fasteners per sheet*	*span-type*	**450**	**600**	**900**	**1200**	**1500**	**1800**	**600**	**900**	**1200**	**1500**	**1800**
0.42	5 (4 for walling)	internal	7.27	5.77	4.09	2.73	1.96	1.51	4.98	3.32	2.49	1.99	1.66
		equal	6.61	5.24	3.72	2.48	1.78	1.37	4.44	2.96	2.22	1.77	1.48
		double	5.82	4.61	3.27	2.18	1.57	1.21	4.05	2.70	2.03	1.62	1.28
0.48	5	internal	9.55	7.38	4.54	3.18	2.69	2.45					
		equal	8.68	6.71	4.13	2.89	2.44	2.23					
		double	7.64	5.91	3.63	2.54	2.15	1.96					
0.42	5 with cyclone caps	internal	10.00	9.68	8.72	6.20	4.54	3.28					
		equal	9.09	8.80	7.93	5.64	4.13	2.98					
		double	8.00	7.74	6.98	4.96	3.63	2.62					
0.48	5 with cyclone caps	internal	10.81	10.57	10.00	6.37	5.29	4.54					
		equal	9.83	9.61	9.09	5.79	4.81	4.13					
		double	8.65	8.46	8.00	5.10	4.23	3.63					

Shaded areas are outside of recommended foot traffic limits

Tables are based on testing to AS1562 and AS4040 parts 0,1,2 and 3, and the BCA. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker.

STRAMIT® CORRUGATED



Applications

The subtle uniformity of ***Stramit® Corrugated*** cladding gives it a unique versatility for architectural applications. Still favoured for traditional housing, it is also the first choice for contemporary steel-roofed homes.

Stramit® Corrugated cladding is the most readily curved roofing profile either spring-curved or bullnosed. This has helped make it popular for smaller commercial applications in both roofing and walling.

Features

- *Economical* – Low-cost roof and wall cladding available in long lengths.
- *Easy Fixing* – Conventional through-fix screws maximise performance and installation.
- *762mm Cover* – Quick installation and easy handling.
- *Hi-tensile Steel* – light weight and high strength.
- *5° Minimum Pitch* – 1.5 rib overlaps for weather protection.
- *Spring Curving* – Ideal for curved roofs.
- *Curving Quality* – Available in G300 steel for curved architectural roofs or bullnosing.
- *Fully Tested* – Full range of load performance tables to suit most applications.

Stramit® Corrugated fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

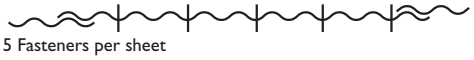
Fastener Locations

Stramit® Corrugated cladding is fixed with 5 fasteners/cyclone caps per sheet at each batten/purlin to meet the required performance values.

CREST FASTENER LOCATIONS

5 Fasteners per sheet

VALLEY FASTENER LOCATIONS (WALL ONLY)



5 Fasteners per sheet

Water Carrying

Stramit® Corrugated cladding has limited water-carrying capacity. Roof slopes can be as low as 5° for many applications. Roof run lengths are the combined lengths of all roof elements contributing to a single pan drainage path. This can include the roof length upstream of a roof penetration that concentrates flow into other pans.

The table below gives slopes for 100 year return period rainfall intensity.

STRAMIT® CORRUGATED CLADDING – MINIMUM ROOF SLOPE (degrees)

rainfall intensity mm/hr	total roof run length (m)							*max roof run length(m) at min slope*
	10	15	20	25	30	35	40	
150				5.5	9.1	14	19	24
175	*Minimum*		5.0	8.4	14	20		20
200	*Slope 5°*		6.6	12	19			18
225		5.0	9.1	16				16
250		5.5	12	21				14
275		7.2	16					13
300		9.1	19					12
325		12	23					11
350	5.0	14						10
375	5.5	16						9
400	6.6	19						9

Exceeds the scope of this manual

Note: Depth of flow in pan = 60% height of underlap (agreed industry standard).

For more information on water carrying performance of ***Stramit® Corrugated*** cladding and other Stramit roofing profiles refer to Stramit's Roof Slope Guide.

Darwin Area

Information on the use of ***Stramit® Corrugated*** cladding in the Darwin area can be found in deemed-to-comply sheets M/149/01 and M/239/01 in the Darwin Area Manual. These are also available from Stramit.

Sheeting Mass

STRAMIT® CORRUGATED CLADDING - SHEETING MASS (kg/m² OF ROOF AREA)

thickness	grade	ZnAl (AZ 150)	COLORBOND®
0.42mm BMT	G550	4.28	4.35
0.48mm BMT	G550	4.86	4.93
0.60mm BMT	G300	6.02	6.09

Foot Traffic

STRAMIT® CORRUGATED CLADDING - FOOT TRAFFIC LIMITED SPANS (mm)

thickness bmt	span type	Foot traffic limits Normal
0.42	internal	1200
	equal	900
	double	900
0.48	internal	1600
	equal	1200
	double	1200
0.60	internal	1200
	equal	900
	double	900

Tables are based on tests to AS1562 and AS4040 parts 0 and 1.

Pressures

STRAMIT® CORRUGATED CLADDING - SERVICEABILITY LIMIT STATE CAPACITY

pressure (kPa) at the spans (mm) shown

			Roof sheeting (Crest fixed)						*Wall cladding (Pan fixed)*				
thickness bmt (mm)	*fasteners per sheet*	*span-type*	450	600	900	1200	1500	1800	600	900	1200	1500	1800
0.42	5	internal	8.19	6.82	4.54	2.79			6.48	4.86	3.17	2.20	1.50
		equal	6.97	6.20	4.13	2.54			6.48	4.32	2.54	1.34	0.77
		double	6.97	5.46	3.63	2.23			6.48	4.32	2.54	1.50	0.89
0.48	5	internal	8.19	8.19	6.25	4.41	2.73	1.82					
		equal	6.97	6.97	5.49	2.99	1.82	1.18					
		double	6.97	6.91	5.00	2.99	1.82	1.18					
0.60	5	internal	8.54	6.82	4.54	2.79							
		equal	7.94	6.20	4.13	2.54							
		double	6.84	5.46	3.63	2.23							
0.42	5 with cyclone caps	internal	8.19	8.19	5.33	3.17							
		equal	6.97	6.97	4.55	2.54							
		double	6.97	6.97	4.33	2.54							
0.48	5 with cyclone caps	internal	8.19	8.19	6.30	4.41	2.73	1.82					
		equal	6.97	6.97	5.49	2.99	1.82	1.18					
		double	6.97	6.97	5.09	2.99	1.82	1.18					
0.60	5 with cyclone caps	internal	8.54	8.11	5.41	3.81							
		equal	7.94	7.12	4.61	2.74							
		double	6.84	6.49	4.33	2.23							

STRAMIT® CORRUGATED CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)

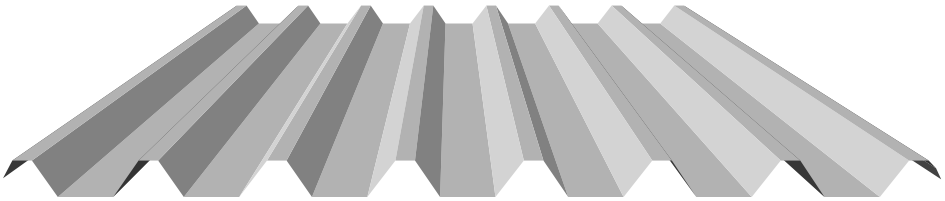
pressure (kPa) at the spans (mm) shown

			Roof sheeting (Crest fixed)						*Wall cladding (Pan fixed)*				
thickness bmt (mm)	*fasteners per sheet*	*span-type*	450	600	900	1200	1500	1800	600	900	1200	1500	1800
0.42	5	internal	9.36	6.82	4.54	2.79			6.48	4.86	4.19	3.58	2.97
		equal	8.51	6.20	4.13	2.54			6.48	4.32	3.78	2.70	1.62
		double	7.49	5.46	3.63	2.23			6.48	4.32	3.78	2.70	1.62
0.48	5	internal	10.19	8.64	6.25	4.54	3.23	2.28					
		equal	9.26	7.85	5.69	4.13	2.94	2.07					
		double	8.15	6.91	5.00	3.63	2.59	1.82					
0.60	5	internal	9.36	6.82	4.54	2.79							
		equal	8.51	6.20	4.13	2.54							
		double	7.49	5.46	3.63	2.23							
0.42	5 with cyclone caps	internal	10.55	9.64	6.63	4.82							
		equal	9.59	8.76	6.03	4.38							
		double	8.44	7.71	5.31	3.85							
0.48	5 with cyclone caps	internal	10.55	10.45	8.30	6.37	4.68	3.18					
		equal	9.59	9.50	7.55	5.79	4.25	2.89					
		double	8.44	8.36	6.64	5.10	3.74	2.54					
0.60	5 with cyclone caps	internal	10.55	9.64	6.59	4.80							
		equal	9.59	8.76	5.99	4.36							
		double	8.44	7.71	5.27	3.84							

Shaded areas are outside of recommended foot traffic limits

Tables are based on testing to AS1562 and AS4040 parts 0,1,2 and 3, and the BCA. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker.

STRAMIT XTRASPAN™ 900



Applications

The striking linearity, strength, wide cover, light weight and weather-resistance of ***Stramit Xtraspan™ 900*** cladding make it perfect for large commercial walling applications. Its strength and ease of installation allow for long, economical spans.

Stramit Xtraspan™ 900 cladding is available on a project basis only. Please contact your local Stramit office for more details.

Features

- *Extra Wide Cover* – Fewer sheets, fewer side laps and quicker installation.
- *Multi-Ribbed Profile* – For performance and good looks.
- *Through-Fixing* – For easy, quick installation and lower costs.

Stramit Xtraspan™ 900 fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Fastener Locations

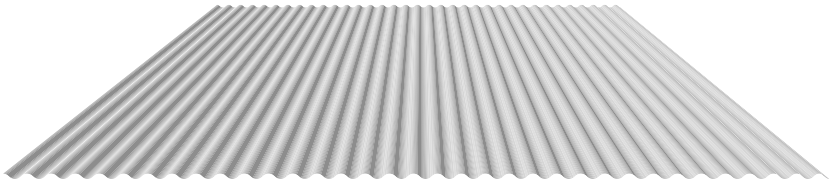
Stramit Xtraspan™ 900 cladding can be fixed in every pan (7 screws per sheet) or every second pan (4 screws per sheet). If crest fixings are used for walls it is recommended that the sheets be pan-fixed to the top and bottom girts to avoid excessive fastener loadings.

Sheeting Mass

STRAMIT XTRASPAN™ 900 CLADDING - SHEETING MASS (kg/m² OF ROOF AREA)

thickness	grade	ZnAl (AZ 150)	COLORBOND®	Aluminium
0.42mm	G550	4.62	4.69	–
0.48mm	G550	5.29	5.37	–
0.55mm	G300	5.98	6.05	–

STRAMIT MINI CORRY®



Applications

Stramit Mini Corry® panelling provides an aesthetically pleasing lining for walls, in particular internal feature walls. The subtle corrugations also lend themselves to soffit and ceiling applications.

Features

- *825mm Cover* – Maximises efficiency and reduces costs.
- *Easy Fixing* – Conventional through-fixed screws for quick installation and good appearance.
- *Small Rib Size* – Small scale version of normal corrugated.
- *New Roll-Formed Profile* – Consistent profile and longer lengths enhance the appearance of any project.
- *High Tensile Material* – Improved handling and performance.
- *New Architectural Features* – Curved and perforated acoustic versions available.

Impact

For walls likely to be subjected to human impact, sheeting spans should be reduced. Impact loads will vary considerably and are not prescribed in Australian Standards. A span of 900mm is suggested for such areas, but this should be adjusted dependent on the exposure and importance of the application.

Stramit Mini Corry® fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Stramit Mini Corry® fasteners positions

For internal applications ***Stramit Mini Corry***® panelling with spaces of 1000mm or more requires the side lap to be stitched at mid-span.

Stramit Mini Corry® panelling is generally not suitable for exterior wall applications, except when sheltered to prevent water ingress.

Stramit Mini Corry® panelling is usually fixed with 7 fasteners per sheet as shown.

NOTE: Additional fasteners do not allow greater spans.

Sheeting Mass

STRAMIT MINI CORRY® PANELLING - SHEETING MASS (kg/m² OF WALL AREA)

thickness	grade	ZnAl (AZ 150)	COLORBOND®
0.42mm BMT	G550	3.95	4.02
0.48mm BMT	G550	4.49	4.56

Pressures

STRAMIT MINI CORRY® PANELLING - SERVICEABILITY LIMIT STATE CAPACITY

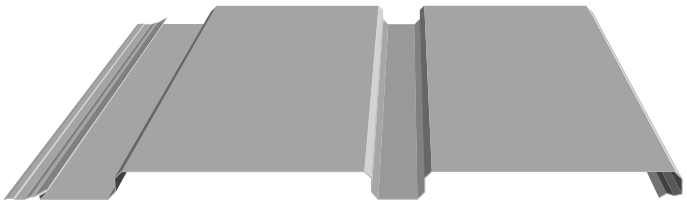
thickness bmt (mm)	*fasteners per sheet*	*span type*	*pressure (kPa) at the spans (mm) shown* 450	600	900
0.42	7 No.10-16x16 wafer head screws	internal	5.03	5.03	1.58
		equal	5.03	5.03	1.58
		double	5.03	5.03	1.58
0.48	7 No.10-16x16 wafer head screws	internal	5.05	5.05	1.64
		equal	5.05	5.05	1.64
		double	5.05	5.05	1.64

STRAMIT MINI CORRY® PANELLING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)

thickness bmt (mm)	*fasteners per sheet*	*span type*	*pressure (kPa) at the spans (mm) shown* 450	600	900
0.42	7 No.10-16x16 wafer head screws	internal	8.25	6.25	3.50
		equal	7.50	5.68	3.18
		double	6.60	5.00	2.80
0.48	7 No.10-16x16 wafer head screws	internal	10.00	7.50	4.00
		equal	9.09	6.82	3.64
		double	8.00	6.00	3.20

Tables are based on testing to AS1562 and AS4040 parts 0, 2 and 3. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker.

STRAMIT PREMIER 300™



Applications

Stramit Premier 300™ is aesthetically pleasing panelling that combines the traditional beauty of flat panels with the strength and durability of steel. The advanced design ensures reliability and ease of construction.

Features

- 300mm cover for quick installation
- Simple interlocking panel and clip
- Hidden fasteners
- Weather-tight seal
- Lightweight high-tensile steel

Stramit Premier 300™ fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). For further details on the correct fasteners for this product please see page 21.

Stramit Premier 300™ fastener position

Sheeting Mass

STRAMIT PREMIER 300™ CLADDING-SHEETING MASS (kg/m² OF WALL AREA)			
thickness	**Grade**	**ZnAl (AZ 150)**	**COLORBOND®**
0.55mm BMT	G300	5.94	6.02

Pressures

STRAMIT PREMIER 300™ CLADDING - SERVICEABILITY LIMIT STATE CAPACITY					
thickness bmt (mm)	*fasteners per sheet*	*span type*	*pressure (kPa) at the spans (mm) shown*		
			450	**600**	**900**
0.55	1	internal	1.65	1.59	1.45
		equal	1.65	1.59	1.45
		double	1.65	1.59	1.45

STRAMIT PREMIER 300™ CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)					
thickness bmt (mm)	*fasteners per sheet*	*span type*	*pressure (kPa) at the spans (mm) shown*		
			450	**600**	**900**
0.55	1	internal	4.50	3.00	1.56
		equal	4.50	3.00	1.56
		double	4.50	3.00	1.56

Tables are based on testing to AS1562 and AS4040 parts 0, 2 and 3. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker.

Stramit® roof & wall fasteners

All fastening screws must conform to AS3566 – Class 3 (Class 4 for severe marine environment). Screws used for external roof applications must be used with sealing washers. Cyclone caps should be used for crest fixing of roofs unless otherwise specified by the designer.

Fixing type		Fastener	Speed Deck Ultra	CapacityPLUS	Monoclad	Longspan	Corrugated	Xtraspan	Minicorry	Premier300
FOR STEEL †										
Crest fixing	Hex-head	No 14-10 x 42mm self drilling & threading screws					✔			
		No 14-10 x 50mm self drilling & threading screws			✔	✔				
		No 14-10 x 95mm self drilling & threading screws		✔						
Clip fixing		No 12-14 x 30mm self drilling & threading screws	✔							
Pan fixing		No 14-10 x 20mm self drilling & threading screws for fixing walls			✔	✔	✔	✔		
		No 10 - 16 x 16mm waferhead self drilling & tapping screws							✔	✔
FOR TIMBER *										
Crest fixing	Hex-head	No 14-10 x 65mm type 17 screws			✔	✔	✔			
		No 14-10 x 100mm type 17 screws		✔						
Clip fixing		No 12-14 x 50mm type 17 screws self drilling screw	✔							
Pan fixing		No 14-10 x 25mm type 17 screws for fixing to walls			✔	✔	✔	✔		
		No 10 - 16 x 30mm type 17 waferhead screws							✔	✔
SIDE LAPS										
		No 8 -15 x 15mm Hex-head screws		✔	✔	✔	✔	✔		

† use Type 17 screws or equivalent when fixing to 0.75mm thick cyclonic batten.

* In all cases where timber battens or supports are used their suitability and capacity for use in cyclonic conditions must be verified.

Profile specific cyclone caps

Cyclone cap for corrugated cladding profiles

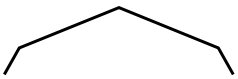
Cyclone cap for square rib cladding profiles

Universal cyclone cap

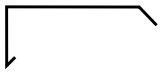
Universal rubber domed cyclone cap for flashings

Procurement

Related Products



Ridge Capping – standard or custom dimensions

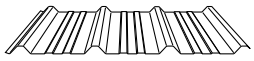


Flashings – a range of custom flashings

Filler Strips – top and bottom; for eaves, ridge and joint sealing

Use only where sealing is preferred to ventilation

Insulation & roofing mesh – a range of mesh, foil insulation, plain & foil backed blanket



Translucent sheeting – fibreglass sheeting in a range of shades and densities

Length

Stramit® roof and wall cladding is supplied cut-to-length. The manufacturing tolerance on the length of product supplied is +0, -15mm.

Delivery/Unloading

Delivery is subject to the delivery location, quantity and material availability, or can be at a pre-arranged date and time. Please ensure that suitable arrangements have been made for truck unloading, as this is the responsibility of the receiver. Pack mass may be up to one tonne. When lifting ***Stramit***® roof and wall cladding, care should be taken to ensure that the load is spread to prevent damage.

Handling/Storage

Stramit® roof and wall cladding should be handled with care at all times to preserve the product capabilities and quality of the finish. Packs should always be kept dry and stored above ground level while on site. If the sheets have become wet, they should be separated, wiped and placed in the open to promote drying.

Installation

Site Induction

Consideration should be given to handling and installation issues as part of site induction safety procedures. Specific consideration should be given to pack handling, avoidance of cuts, trips, slips and falls, long sheet handling, particularly in windy conditions, sheet cutting procedures and surface temperature on sunny days. Personal protection equipment (PPE) should always be used.

Handling

Cut-resistant or leather gloves should be worn when handling product. Foot protection should be worn when handling and transporting product.

Fasteners

All fastening screws must conform to AS3566-Class 3 (Class 4 for severe marine environment) or better. They are to be hexagon headed and may be used with sealing washers.

When ordering fasteners, allow for general wastage and loss of screws.

Other products

Stramit Building Products has an extensive range of products that accompany all ***Stramit***® Cyclonic roof and wall cladding products. These include:

- Gutters
- Downpipes
- Flashing
- Fascia

Please contact your nearest Stramit Building Products location for details and latest designs.

Insulation

Fastener sizes given are for insulation thickness of up to 50mm. Increased thicknesses up to 100mm require fasteners that are 20mm longer. However, care must be taken when fixing the sheet. Stand on pans either side of rib to compress the additional material, then fix fasteners until seal is touching. Do not over-tighten fasteners.

Installation

For correct and detailed installation details of these and other Stramit® cladding products, refer to the corresponding technical literature available from your local Stramit Building Products office or the Stramit website.

Walking

As with all roofing products, extra caution should be taken when walking on the roof. When walking on cladded roofing always wear flat rubber-soled shoes. With ***Stramit Monoclad***®, ***Speed Deck Ultra***® and ***CapacityPLUS***® cladding, place feet only in the pans, taking care to avoid the last pan or two, near the edges of the metal roof area.

For ***Stramit Longspan***® and ***Stramit***® ***Corrugated*** cladding place feet on at least two ribs, again taking care to avoid the last rib or two, near the edges of the metal roof area.

Exposed Edges

To avoid the risk of cuts, applications accessible to personnel should be designed to avoid exposed edges. Sheet ends should be well recessed or covered by flashing with folded edges. Exposed sheet overlaps fit snugly when side lap fasteners are correctly installed, and are generally satisfactory.

Good Practice

Stramit Building Products recommends that good trade practice be followed when using these products, such as that found in Australian Standards Handbook HB39.

Cutting

Stramit® roof and wall cladding can be easily cut, where required, using a power saw with a steel cutting blade or a power nibbler and, for localised cutting, tin-snips. Avoid the use of abrasive discs as these can cause burred edges and coating damage. Please dispose of any off-cuts carefully.

Additional Information

Maintenance

Exterior surfaces of metal products unwashed by rain can benefit from occasional washing to remove build-up of corrosive salts. Typical areas are walls beneath eaves or awnings, and soffits or eaves linings.

Cleaning

Should it be necessary to wash ***Stramit***® roof and wall cladding (COLORBOND® or zinc-aluminium coated steel) follow the procedure below:

1. Wash the surface with a mild solution of pure soap or non-abrasive, non-toxic, kitchen detergent in warm water using a sponge, soft cloth or bristle nylon brush.
2. Thoroughly rinse with clean water immediately after cleaning.

Warning: Never use abrasive or solvent type cleaners (e.g. turpentine, petrol, thinners or kerosene) on COLORBOND® materials.

Further Information

As well as the standard range of Technical Manuals, Installation Leaflets, Case Studies and other promotional literature, Stramit Building Products provides a series of guides to aid design. These include:

- Roof Slope Guide
- Foot Traffic Guide
- Concealed Fixed Decking
- Bullnosing, Curving and Crimping
- Acoustic Panels
- Spring Curving Guide

Contact your nearest Stramit Building Products location for copies of these or other literature.

Website

All Stramit literature as well as specifications is available for download from the Stramit website www.stramit.com.au

Other Products

Stramit offers a wide range of building products, including:

- Purlins and girts
- Formwork decking
- Roof and wall sheeting
- Lightweight structural sections
- Truss components
- Gutters and downpipes
- Fascias
- Custom flashing
- Insulating products
- Fasteners

References

In preparation this document reference has been made to

- Standards Australia Handbook - HB39
- BlueScope Steel Ltd - Technical Bulletin TB-4 (Maintenance of Colorbond prepainted steel roofing)
- BlueScope Steel Ltd - Technical Bulletin TB-1a & 1b (Steel roofing and walling products - selection guide)

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The Stramit web page can be found at:
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