

STRAMIT LONGSPAN[®] ROOF AND WALL CLADDING

Product Technical Manual



SELECTION AND SPECIFICATION



FEATURES

- 700mm Cover - quick installation and easy handling.
- Easy Fixing - conventional through fixed screws maximise performance and installation.
- Hi-Tensile Steel - light weight and high strength with improved damage resistance.
- Spring Curving - data for curved roofs.
- Design Flexibility - long lengths and anti-capillary side laps enable Stramit Longspan® cladding to be used effectively on applications from vertical wall cladding and fascias to roofs with pitch as low as 3°.
- Fully Tested - a full range of load performance tables to suit most applications.
- Extended Spans - strength and rigidity of the profile allows economical construction.

APPLICATIONS

The striking linearity, strength, wide cover, light weight and weather resistance of Stramit Longspan® cladding make it perfect for many commercial roofing and walling applications.

Its excellent strength and ease of assembly allow for long, economical spans. The 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 for domestic applications, where a strong but uniform appearance is desired.

Stramit Longspan® Cladding is only intended for use in commercial/industrial/residential roof and wall cladding applications. Do not use for any other purpose.

IMPORTANT NOTICE AND DISCLAIMER

The information contained within this brochure is 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 use of the information provided in this brochure.

MATERIALS

Stramit Longspan® cladding is manufactured from hi-tensile G550 colour coated steel, aluminium-zinc-magnesium or zinc-aluminium alloy coated steel. In some locations galvanised and severe environment colour coated steel may be available by arrangement. Colour coated steels are in accordance with AS/NZS2728 - Category 3 and, for the substrate, with AS1397. Aluminium-zinc-magnesium alloy coated AM100/AM125, zinc-aluminium alloy coated AZ150 and galvanised Z450 conform to AS1397.

Stramit has a comprehensive range of colours as standard. Ask your nearest Stramit location for colour availability.

STRAMIT LONGSPAN® CLADDING - SHEETING MASS (kg/m ² of roof area)			
	ZINCALUME®	COLORBOND®	GALVANISED
0.42mm BMT	4.66	4.74	5.07
0.48mm BMT	5.29	5.37	5.70

ADVERSE CONDITIONS

Stramit Longspan® cladding will give excellent durability in almost all locations. It is however important to choose the correct coating for each application environment. Durability recommendations do vary based on the application of the product, in roofing or walling installations. The table below shows the suitability of coating types for different exposure conditions.

Suitability of coating type	Roof sheeting - site exposure condition			Wall cladding - distance from marine environment
	mild/moderate	severe marine	very severe marine	
Zinc-Aluminium (AZ150)	✓	✗	✗	>1km
ZINCALUME® (AM125)	✓	✗	✗	>1km
COLORBOND®	✓	✗	✗	>1km
COLORBOND® METALLIC	✓	✗	✗	>1km*
COLORBOND® ULTRA	N/A	✓	✗	>500m
COLORBOND® STAINLESS	N/A	N/A	✓	>0m

* >2km residential building.

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

Site exposure condition	Roof sheeting - distance of site from	
	breaking surf/exposed marine	calm marine
mild/moderate	>200m	>100m
severe marine	>100m	>0m
very severe marine	>0m	>0m

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.

COMPATIBILITY

All building products need to be checked for compatibility with adjacent materials. These checks need to be for both direct contact between materials, and where water runs from one material to another. The following guidelines generally avoid material incompatibility:

- For zinc-aluminium/aluminium-zinc-magnesium alloy coated steel, colour coated steel and galvanised steel roofs avoid copper, lead, green or treated timber, stainless steel and mortar or concrete.
- In addition galvanised steel roofs should not receive drainage from aluminium or any inert materials, such as plastics, glass, glazed tiles, colour coated and zinc-aluminium/aluminium-zinc-magnesium alloy. Contact Stramit for more detailed information.

TESTING

Stramit has in-house, purpose built, testing equipment used to design, develop and improve products for the Australian market. In addition many Stramit® products are tested or witnessed by independent organisations.

These include:

- Cyclone Testing Station (James Cook University)
- University of Technology, Sydney

This ongoing research and development activity ensures that Stramit remains at the forefront of innovation, design and consumer information.

ARCHITECTURAL SPECIFICATION

This specification can be found on the Stramit website and can be easily downloaded onto your documentation.

The roofing/walling shall be 0.42 (or 0.48) mm BMT Stramit Longspan® cladding in continuous lengths with trapezoidal ribs 27mm high, spaced at 100mm centres. Sheeting material shall be protected steel sheet to Australian Standard AS1397, with a minimum yield stress of 550MPa (Grade G550) and an AM100/AZ150 coating with an oven-baked paint film of selected colour or a plain AM125/AZ150 coating. The sheeting shall be fixed to the purlins/girts in accordance with the manufacturer's recommendations. Suitable fixing screws in accordance with Australia Standard AS3566, Class 3, shall be used at every support with side lap fasteners installed at mid span if required. Sheets shall be laid in such a manner that the approved side lap faces away from the prevailing weather.

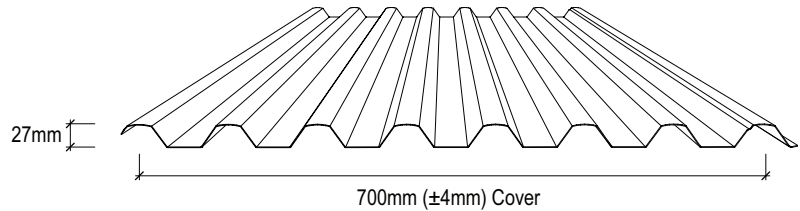
A minimum of 50mm shall be provided for projection into gutters. Flashings shall be provided in compatible materials as specified; minimum cover of flashing shall be 150mm. All sheeting shall be fixed in a workman-like manner, leaving the job clean and weathertight. Repair minor blemishes with touch-up paint supplied by the roof manufacturer. All debris (nuts, screws, cuttings, filings etc.) shall be cleaned off daily.

DESIGN

SPANS

The spans shown below take account of 'normal' foot traffic and wind resistance including local pressure zone effects.

Pressures are based on AS4055 or AS/NZS1170.2. Where the two standards differ, the worst case has been taken for each classification. Data should only be used for buildings 7m or less in height, 1000m² or less in area, where both length and width exceed the building height and site is unaffected by land topography.



STRAMIT LONGSPAN® CLADDING - MAXIMUM SPAN CHART (mm)

bmt (mm)	fasteners per sheet at each support	roofs - all areas unless noted *					walls					overhangs	
		pressure (kPa) service-ability	strength	double spans	equal spans	internal (end) span combination	pressure (kPa) service-ability	strength	double spans	equal spans	internal (end) span combination	free edge	stiffened edge
N1 or Region A (TC3, FS) Wind Classification													
0.42	3/4 screws	1.07	1.81	1750	1750	2100 (1750)	0.55	0.94	2950	2950	3000 (2500)	200	450
0.48	3/4 screws	1.07	1.81	2250	2250	2700 (2250)	0.55	0.94	3000	3000	3000 (2500)	250	500
N2 or Region B (TC3, FS) or Region A (TC2.5, PS) Wind Classification													
0.42	3 screws	1.05	1.75	1750*	1750*	2100 (1750)*	0.79	1.31	2300	2300	2750 (2300)	150	450
	3 screws	1.53	2.53	950	950	1150 (950)							
	4 screws	1.53	2.53	1750	1750	2100 (1750)							
0.48	3 screws	1.05	1.75	2250*	2250*	2700 (2250)*	0.79	1.31	2900	2900	3000 (2500)	150	450
	3 screws	1.53	2.53	1700	1700	2050 (1700)							
	4 screws	1.53	2.53	2250	2250	2700 (2250)							
N3 or Region B (TC2.5, PS) or Region A (TC2, NS) Wind Classification													
0.42	3 screws	1.32	2.70	1350#	1350#	1600 (1350)#	0.99	2.03	1900	1900	2300 (1900)	100	350
	4 screws	1.32	2.70	1750*	1750*	2100 (1750)*							
	4 screws	1.92	3.92	1700	1700	1850 (1550)							
	5 screws	1.92	3.92	1750	1750	2100 (1750)							
0.48	3 screws	1.32	2.70	2100*	2100*	2500 (2100)*	0.99	2.03	2650	2650	3000 (2500)	100	350
	3 screws	1.92	3.92	1250	1250	1500 (1250)							
	4 screws	1.32	2.70	2250*	2250*	2700 (2250)*							
	4 screws	1.92	3.92	1950	1950	2050 (1700)							
	5 screws	1.32	2.70	2250*	2250*	2700 (2250)*							
5 screws	1.92	3.92	2050	2050	2500 (2050)								

* Where roof pitch is less than 10 degrees, use spans given in red for roof corners.

Not suitable for roofs with pitch less than 10 degrees.

Internal spans must have both end spans 20% shorter. TC - Terrain category. FS, PS, NS - Full, partial and no shielding. Internal pressure coefficient +0.2/-0.3. Values are only valid for use with steel members of 1.5mm or thicker. Where thinner supports are used, fastener capacity must be checked. Refer to Stramit® Top Hat & Battens Product Technical Manual for more information.

For more specific applications Stramit Longspan® cladding must be designed to the pressure and foot traffic limitations below and on the next page. Roof spans may exceed those shown in this table, provided the wind pressure and foot traffic limits are not exceeded.

PRESSURES

STRAMIT LONGSPAN® CLADDING - SERVICEABILITY LIMIT STATE CAPACITY

thickness bmt (mm)	fasteners per sheet at each support	span type	pressure (kPa) at the spans (mm) shown								
			600	900	1200	1500	1800	2100	2400	2700	3000
0.42	3	internal	1.66	1.66	1.53	1.39	1.25	1.10	0.95	0.82	0.70
		equal	1.58	1.58	1.42	1.25	1.07	0.90	0.75	0.62	0.54
		double	1.58	1.58	1.42	1.25	1.07	0.90	0.75	0.62	0.54
	4	internal	5.58	5.58	4.52	3.60	2.82	2.16	1.63	1.22	0.93
		equal	4.93	4.93	3.78	2.82	2.05	1.45	1.03	0.77	0.66
		double	4.96	4.93	3.78	2.82	2.05	1.45	1.03	0.77	0.66
	5	internal	5.58	5.58	4.52	3.60	2.82	2.16	1.63	1.22	0.93
		equal	4.93	4.93	3.78	2.82	2.05	1.45	1.03	0.77	0.66
		double	4.33	4.33	3.60	2.87	2.19	1.59	1.11	0.78	0.65
0.48	3	internal	2.66	2.66	2.24	1.92	1.69	1.52	1.39	1.26	1.12
		equal	2.39	2.39	1.98	1.69	1.49	1.34	1.18	0.99	0.71
		double	2.39	2.39	1.98	1.69	1.49	1.34	1.18	0.99	0.71
	4	internal	8.67	8.67	6.31	4.57	3.35	2.54	2.03	1.70	1.46
		equal	7.17	7.17	4.88	3.35	2.42	1.88	1.55	1.25	0.77
		double	7.17	7.17	4.88	3.35	2.42	1.88	1.55	1.25	0.77
	5	internal	8.67	8.67	6.31	4.57	3.35	2.54	2.03	1.70	1.46
		equal	7.17	7.17	4.88	3.35	2.42	1.88	1.55	1.25	0.77
		double	4.97	4.97	3.94	3.09	2.39	1.84	1.40	1.05	0.79

STRAMIT LONGSPAN® CLADDING - STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)											
thickness bmt (mm)	fasteners per sheet at each support	span type	pressure (kPa) at the spans (mm) shown								
			600	900	1200	1500	1800	2100	2400	2700	3000
0.42	3	internal	7.35	7.35	5.82	4.56	3.56	2.78	2.21	1.80	1.54
		equal	6.98	6.98	5.24	3.89	2.90	2.22	1.79	1.56	1.48
		double	6.98	6.98	5.24	3.89	2.90	2.22	1.79	1.56	1.48
	4	internal	8.57	8.57	6.80	5.35	4.19	3.30	2.64	2.20	1.94
		equal	8.63	8.63	6.49	4.85	3.65	2.83	2.35	2.15	2.15
		double	8.63	8.63	6.49	4.85	3.65	2.83	2.35	2.15	2.15
5	internal	9.39	9.39	8.35	7.36	6.44	5.60	4.86	4.23	3.74	
	equal	9.41	9.41	8.11	6.92	5.85	4.93	4.21	3.71	3.46	
	double	9.41	9.41	8.11	6.92	5.85	4.93	4.21	3.71	3.46	
0.48	3	internal	8.09	8.09	6.62	5.39	4.37	3.55	2.90	2.41	2.06
		equal	7.83	7.83	6.13	4.77	3.72	2.94	2.39	2.03	1.83
		double	7.83	7.83	6.13	4.77	3.72	2.94	2.39	2.03	1.83
	4	internal	9.63	9.63	7.50	5.88	4.69	3.85	3.28	2.91	2.67
		equal	9.58	9.58	7.14	5.43	4.30	3.61	3.20	2.92	2.63
		double	9.58	9.58	7.14	5.43	4.30	3.61	3.20	2.92	2.63
	5	internal	11.18	11.18	9.35	7.91	6.80	5.96	5.33	4.86	4.49
		equal	10.77	10.77	8.76	7.29	6.24	5.50	4.97	4.53	4.08
		double	10.77	10.77	8.76	7.29	6.24	5.55	4.97	4.53	4.08

Tables are based on testing to AS1562.1 and AS4040 parts 0 and 2. Internal spans must have both end spans 20% shorter. Values only valid for use with steel support members of 1.5mm or thicker. Where thinner supports are used, fastener capacity must be checked. Refer to **Stramit® Top Hat and Batten Product Technical Manual** for more information. Refer to **Stramit® Cyclonic Areas Roof and Wall Cladding Brochure** for information on use in Cyclonic Regions.

FOOT TRAFFIC

Foot traffic limits for Stramit Longspan® cladding are shown for three alternate foot traffic categories. These are:

- High Maintenance – for applications with repeated maintenance, particularly where personnel may be unfamiliar with correct procedures for walking on metal roofs.
- Normal – based on traditional expectations, with moderate maintenance foot traffic using designated foot paths.
- Controlled – spans that conform to AS1562.1 with 1.1kN load specified in AS/NZS1170.1 for R2 – Other Roofs. These require minimal careful foot traffic only on the designated footpath. Suggested for use only where occasional aesthetic imperfections from foot traffic are acceptable.

STRAMIT LONGSPAN® CLADDING - FOOT TRAFFIC LIMITED SPANS (mm)				
thickness bmt	span type	foot traffic limits		
		heavy	normal	controlled
0.42	internal	-	2100	2400
	equal	-	1750	1800
	double	-	1750	1800
0.48	internal	800	2700	3000
	equal	600	2250	2250
	double	600	2250	2250

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

For more information on foot traffic performance of Stramit Longspan® cladding and other Stramit® roofing profiles refer to Stramit's Foot Traffic Guide.

SPRING CURVING

Stramit Longspan® cladding can be spring-curved, concave and convex, including curved ridges, provided it is sealed at the apex and within the recommended limits below:

STRAMIT LONGSPAN® CLADDING - SPRING-CURVED RADII LIMITS (m)					
bmt (mm)	performance restricted		restricted by drainage at the rainfall intensities shown		
	minimum* radius	lowest neutral radius	370 mm/hr	220 mm/hr	150 mm/hr
0.42	30*	88	78	131	192
0.48	20*	113	78	131	192

*At these radii a maximum support spacing of 1200mm applies, and limit state pressure capacities are reduced by 14% for serviceability and 7% for strength. These reductions apply proportionately up to the lowest neutral radius.

For more comprehensive information on spring curving Stramit Longspan® cladding and other Stramit® roofing profiles refer to the Stramit Spring Curving Guide.

THERMAL EXPANSION

All metal roof sheeting is subject to thermal expansion and, where there is a temperature difference between the sheeting and the structure, this needs to be accommodated. The colour of the sheeting will affect the amount of thermal expansion, and whether the sheet is flat or curved will affect its ability to resist without problems. Sheet lengths should be limited to those shown below.

STRAMIT LONGSPAN® CLADDING - MAXIMUM SHEET LENGTH (m)		
roof colour	light	dark
flat	25	17
spring-curved	20	17

WATER CARRYING

Stramit Longspan® cladding has water-carrying capacity similar to most close pitched trapezoidal profiles. This and the decking stiffness enable roof slopes to be as low as 3° 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	
150			3.0	4.8	7.9	12.0	17.0			42
175	<i>Minimum</i>		3.0	3.9	7.3	12.0	18.0			36
200	<i>slope 3°</i>		3.0	5.7	11.0	17.0				32
225		3.0	3.5	7.9	15.0					28
250		3.0	4.8	11.0	19.0					25
275		3.0	3.7	6.2	14.0					23
300		3.0	4.8	7.9	17.0	<i>Exceeds the scope of this manual</i>				21
325		3.1	6.0	9.8		<i>Exceeds the scope of this manual</i>				19
350		3.9	7.3	12.0		<i>Exceeds the scope of this manual</i>				18
375		4.8	8.8	15.0		<i>Exceeds the scope of this manual</i>				17
400		5.7	11.0	17.0		<i>Exceeds the scope of this manual</i>				16

Based on AS1562.1

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

CYCLONIC AREAS

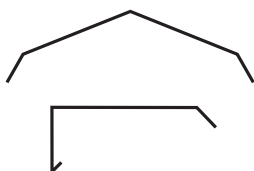
Cyclonic Data for Stramit Longspan® roofing can be found in the Stramit Cyclonic Areas Guide. Information on the use of Stramit Longspan® roofing in the Darwin area can also be found in deemed-to-comply sheet No M/178/O1. This is available from Stramit.

PROCUREMENT

PRICES

Prices on Stramit Longspan® cladding and its accessories can be obtained from your nearest Stramit location or distributor of Stramit® products. As Stramit does not provide an installation service, ask your tradesperson for a supply and fix price. Contact your nearest Stramit location for the names of tradespersons in your area.

RELATED PRODUCTS



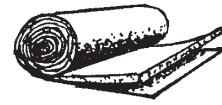
Ridge Capping - standard or custom dimensions

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, Sisalation®, plain & foil backed blanket



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

LENGTH

Stramit Longspan® cladding is supplied cut-to-length. When designing or transporting long products ensure that the length is within the limit of the local Transport Authority regulations. The manufacturing tolerance on the length of product supplied is +0, -15mm.

ORDERING

Stramit Longspan® cladding can be ordered directly, through distributors, or supplied and fixed from a roofing contractor.

DELIVERY/UNLOADING

Delivery can normally be made within 48 hours, 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 Longspan® cladding, care should be taken to ensure that the load is spread to prevent damage. Packs must never be placed onto unclad purlins except directly above portal frames.

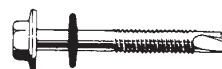
HANDLING/STORAGE

Stramit Longspan® 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

FASTENERS

All fastening screws must conform to AS3566 - Class 3. They are to be hexagon headed and must be used with sealing washers. For connecting to purlins or top hats use:



For steel (1.5mm bmt or greater*) - 12 x 45mm self-drilling and threading screws for crest fixing



- 10 x 16mm self-drilling and threading screws for pan fixing to walls



For timber (F11 or better) –
12 x 65mm type 17 screws for
crest fixing



– 10 x 25mm type 17 screws for
pan fixing to walls



Side Laps
– 10 x 16 self drilling and
threading screws, or



– 3.2mm diameter sealed
aluminium pop rivets

* For steel less than 1.5mm bmt thickness refer to Stramit® Tophats and Battens Product Technical Manual.

FASTENER LOCATIONS

Stramit Longspan® cladding can be fixed with either 3, 4 or 5 fasteners per sheet at each batten/purlin to meet the required performance values, as shown below:

CREST FASTENER LOCATIONS



5 Fasteners per sheet



4 Fasteners per sheet



3 Fasteners per sheet

Side Lap Fastener

VALLEY FASTENER LOCATION (WALLS ONLY)



4 Fasteners per sheet



3 Fasteners per sheet

Side Lap Fastener

INSTALLATION

Stramit Longspan® cladding is readily installed with or without fibreglass insulation blanket. If practical lay sheets in the opposite direction to prevailing weather.

Installation of Stramit Longspan® cladding is a straightforward procedure using the following fixing sequence:

- 1) Ensure all purlins are in line and correctly installed and that mesh and blanket (if specified) are in place.
- 2) Position and fix the first sheet ensuring the correct sheet overhangs (minimum 50mm). Ensure that screws are not overtightened.
- 3) Continue to fix subsequent sheets checking that sheet ends at the lower edge are exactly aligned.

It is important that the underlap of one sheet does not protrude beyond the overlap of the next – if this is unavoidable, the underlap must be trimmed locally or water ‘drawback’ may occur.

- 4) Measure the overall cover width at top and bottom of the sheets from time to time to avoid ‘fanning’.

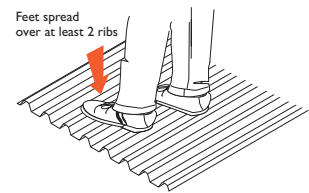
- 5) For roof spans exceeding 900mm and wall spans exceeding 1200mm, stitch the sidelaps at midspan.
- 6) Turn up the pans at the upper roof edge and turn down the pans at the lower edge and install flashings. Fix flashings according to AS1562.1.
- 7) Clean up the roof after each days work, removing all screws, cuttings, swarf etc, and leave roof clean and watertight.

INSULATION

Stramit Longspan® cladding is suitable for use with insulating blanket. Glasswool blanket up to 50mm thick can be readily used. Increased thicknesses require longer fasteners and greater care in installation.

WALKING

As with all roofing products, we recommend extra caution be taken when walking on the roof. When walking on Stramit Longspan® cladding roofing always wear flat rubber soled shoes and place feet only on the ribs, taking care to avoid the last rib or two near edges of the metal roof area.



Walk only on ribs.

GOOD PRACTICE

Stramit recommends that good trade practice be followed when using this product, such as that found in Australian Standards Handbook HB39.

CUTTING

Stramit Longspan® 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. Walls beneath eaves or awnings are such a situation.

FUTHER INFORMATION

As well as our standard range of Technical Manuals, Installation Leaflets, Case Studies and other promotional literature Stramit has a series of Guides to aid design.

Please contact your nearest Stramit location, or visit www.stramit.com.au to download this manual or any of the many others available.

CONTACT US

Visit stramit.com.au or contact us using the details below.

REGION	LOCATION	CONTACT DETAILS	TECHNICAL ENQUIRIES
NSW & ACT	SYDNEY 33-83 Quarry Rd, Erskine Park NSW 2759	Ph 02 9834 0909 Fax 02 9834 0988	Ph 02 9834 0964
	CANBERRA 4 Bass St, Queanbeyan NSW 2620	Ph 02 6298 2500 Fax 02 6298 2533	
	COFFS HARBOUR 6 Mansbridge Dr, Coffs Harbour NSW 2450	Ph 02 6656 3800 Fax 02 6656 3808	
	NEWCASTLE 17 Nelson Rd, Cardiff NSW 2285	Ph 02 4041 3400 Fax 02 4041 3423	
	ORANGE 51 Leewood Dr, Orange NSW 2800	Ph 02 6360 9200 Fax 02 6360 9211	
VIC	MELBOURNE 3/1464 Ferntree Gully Rd, Knoxfield VIC 3180	Ph 03 9237 6300 Fax 03 9237 6399	Ph 03 9237 6353
	ALBURY 18 Ariel Dr, Albury NSW 2640	Ph 02 6092 3700 Fax 02 6092 3766	
	BENDIGO Lot 7-9 Ramsay Court, Kangaroo Flat VIC 3555	Ph 03 5448 6400 Fax 03 5447 9677	
TAS	HOBART 57 Crooked Billett Dr, Brighton TAS 7030	Ph 03 6262 8788 Fax 03 6262 8712	Ph 03 9237 6353
SA	ADELAIDE 11 Stock Rd, Cavan SA 5094	Ph 08 8219 2000 Fax 08 8219 2021	Ph 03 9237 6353
SOUTH QLD	BRISBANE 57-71 Platinum St, Crestmead QLD 4132	Ph 07 3803 9999 Fax 07 3803 1499	Ph 07 3803 9869
	MARYBOROUGH 10 Activity St, Maryborough QLD 4650	Ph 07 4123 9500 Fax 07 4123 9508	
	ROCKHAMPTON 41 Johnson St, Parkhurst QLD 4702	Ph 07 4921 5600 Fax 07 4921 5608	
NORTH QLD	CAIRNS 53 Vickers St, Edmonton QLD 4869	Ph 07 4034 6555 Fax 07 4034 6511	Ph 07 3803 9869
	TOWNSVILLE 402-408 Bayswater Rd, Garbutt QLD 4814	Ph 07 4412 3900 Fax 07 4412 3909	
	MACKAY 6 Brickworks Court, Glenella QLD 4740	Ph 07 4965 4000 Fax 07 4965 4012	
NT	DARWIN 55 Albatross St, Winnellie NT 0820	Ph 08 7922 4600 Fax 08 7922 4608	Ph 07 3803 9869
WA	PERTH 605-615 Bickley Rd, Maddington WA 6109	Ph 08 9493 8800 Fax 08 9493 8899	Ph 07 3803 9869

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