

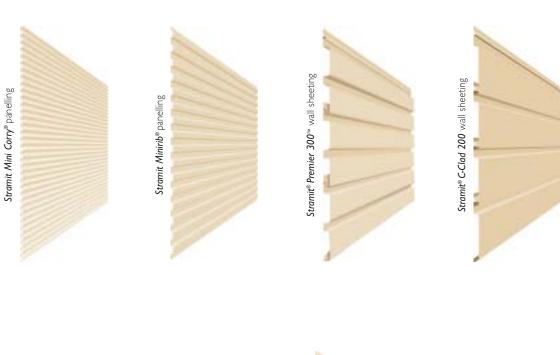


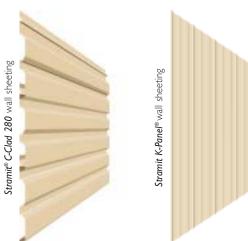
STRAMIT® WALL SHEETING & CLADDING QLD & NT

product technical manual



STRAMIT® WALL SHEETING & CLADDING NORTHERN REGION









IMPORTANT NOTE

The information contained within this brochure is as far as possible accurate at the date of publication, however, before application in a particular situation, Stramit Building Products recommends that you obtain 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.

Selection & Specification

General Applications

The visual appeal, strength, wide cover, light weight and weather resistance of **Stramit®** wall sheeting & cladding make it perfect for all commercial wall applications. Its excellent strength and ease of assembly allow for long, economical spans.

Stramit® wall sheeting & cladding may also be used for domestic applications.

Availability

Some of the **Stramit**® wall sheeting & cladding shown is not manufactured at all locations. Check with your nearest Stramit office for availability or refer to the South Queensland, North Queensland or Darwin Price & Service Guides.

Materials

Stramit® wall sheeting & cladding is manufactured from hi-tensile G550 colour coated steel or zinc-aluminium alloy coated steel. Colour coated steel is in accordance with AS2728, and for the substrate with AS1397. Zinc-aluminium alloy coated AZ150 conforms with AS1397.

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

Dedicated Walling Products

The following **Stramit**[®] wall sheeting & cladding is intended for use in walling applications:

- · Stramit Mini Corry® panelling
- Stramit Minirib® panelling
- . Stramit Premier 300™ wall sheeting
- · Stramit® C-Clad 200 wall sheeting
- · Stramit® C-Clad 280 wall sheeting
- Stramit K-Panel® wall sheeting
- Stramit Lo-Clad[™] wall sheeting
- 0.35mm bmt Stramit Monoclad® wall sheeting

Some profiles are also suitable for ceiling and soffit applications. Full details of these profiles are provided within this manual.

Roof and Wall Sheeting

Several Stramit profiles are intended for use as either roofing or walling. Maximum wall spans for the following sheeting profiles are given on page 4 of this manual:

- 0.42mm bmt Stramit Monoclad® sheeting
- 0.42mm bmt Stramit Speed Deck Ultra® decking
- 0.42mm bmt **Stramit Longspan**® sheeting
- 0.42mm bmt Stramit® Corrugated sheeting

For comprehensive details of these products, including specifications, alternative thicknesses and fastening, refer to the product technical manual for each profile.

Cyclonic Areas

Cyclonic Data for **Stramit**® wall sheeting & cladding can be found in the **Stramit**® Cyclonic Areas Guide.

Information on the use of **Stramit**® wall sheeting & cladding in the Darwin area can also be found in deemed-to-comply sheets No M/109/11 and M/109/12. These are available from Stramit.

Adverse Conditions

Stramit® wall sheeting & 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.

suitability of	site exposure condition						
coating type	benign	moderate	severe	very severe			
ZINCALUME® AZ 150	/	?	?	×			
Galvanised Z450	/	?	X	×			
COLORBOND®	/	✓	?	×			
COLORBOND® Ultra	N/A	N/A	~	?			

[?] Question marks indicate conditions where durability may be diminished, depending on the particular application.

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

		distance of site from					
site exposure	rough	calm, still	industrial	fossil fuel			
condition	active surf	salt water	emission	combustion			
benign	1000m +	100m +	500m +	500m +			
moderate	400m-1000m	0-100m	250m-500m	250m-500m			
severe	100m-400m	N/A	100m-250m	100m-250m			
very severe	0-100m	N/A	0-100m	0-100m			

The suitability and exposure tables above are guidelines only; conditions will vary from site to site. If in any doubt about the choice of coating for a particular application contact your nearest Stramit office for advice.

Compatibility

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

- For ZINCALUME® and COLORBOND® steel and galvanised roofs avoid copper, lead, green or treated timber, stainless steel and mortar or concrete.
- In addition galvanised roofs or gutters should not receive drainage from aluminium or any inert materials, such as plastics, glass, glazed tiles, COLORBOND® and ZINCALUME® steel. 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 including the Cyclone Testing Station .

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

Architectural Specification

It is important to ensure appropriate quality products are used in construction. One way to help ensure this is to use a comprehensive specification such as outlined below for dedicated walling products.

Similar specifications for each **Stramit**® sheeting product can be found on the Stramit web site and can easily be downloaded onto your documentation.

The wall sheeting shall be [select one of the following profiles]:

 0.42mm bmt Stramit Mini Corry® panelling, in continuous lengths with sinusoidal ribs 6mm high, spaced at 24mm centres.

or

 0.42mm bmt Stramit Minirib® panelling, in continuous lengths with trapezoidal ribs 4mm high, spaced at 60mm centres.

or

 0.55mm bmt Stramit Premier 300[™] wall sheeting, in continuous lengths with inverted ribs 15mm high, spaced at 164mm centres.

or

0.70mm bmt Stramit® C-Clad 200
 wall sheeting, in continuous lengths with inverted ribs
 I5mm high.

or

 0.55mm bmt Stramit® C-Clad 280 wall sheeting, in continuous lengths with inverted ribs 15mm high.

or

 0.35mm or 0.42mm bmt Stramit K-Panel® wall sheeting, in continuous lengths with trapezoidal ribs 12mm high, spaced at 216mm centres.

or

 0.42mm bmt Stramit Lo-Clad[™] wall sheeting, in continuous lengths with trapezoidal ribs 12mm high, spaced at 164mm centres.

or

 0.35mm bmt Stramit Monoclad® wall sheeting, in continuous lengths with trapezoidal ribs 29mm high, spaced at 190mm centres.

Sheeting material shall be protected steel sheet to AS1397 with a minimum yield stress of 550MPa (Grade G550) [Grade G300 for C-Clad] and an AZ150 zinc-aluminium coating with [or without] an oven baked paint film of selected colour. The sheeting shall be fixed vertically [or horizontally or diagonally] to the girts or framing at every support and side lap fasteners installed at mid span, in accordance with the manufacturer's recommendations using fixing screws in accordance with Australian Standard AS3566 Class 3. Sheets shall be laid in such a manner that the approved side lap faces away from the direction of the most severe weather or is on the lowest edge. Flashings shall be supplied in compatible material with a minimum sheet cover of 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.

Ceiling Applications

Many of the profiles shown in this manual have been successfully used in ceiling and soffit applications. Although the capacity to resist wind pressure must be checked it is usually appearance that governs. More subtle profiles such as **Stramit Mini Corry®** panelling offer most versatility for different applications. However all profiles will deflect under material self weight and selection of support spacing will influence this effect. For most applications support spacing of 900mm will be suitable but for large areas with extensive light contrasts this should be reduced.

Maximum Sheet Length

Stramit are able to manufacture wall sheeting in lengths well in excess of that which is practical to install.

Horizontal Applications

Designers should take into account the sheeting mass, method of fixing and the number of installers when nominating wall sheet length. As a guideline wall sheets should generally not exceed 6 metres unless special handling provisions have been made.

Vertical Applications

The issue with vertical wall applications is getting the wall sheeting upright safely and without sustaining damage unless special mechanical handling provisions to support the sheet have been made. For manual lifting applications, provided care is taken it is possible to use **Stramit Mini Corry®** panelling and **Stramit Minirib®** panelling up to 3 metres high, **Stramit® C-Clad**, **Stramit K-Panel®** and **Stramit Lo-Clad™** wall sheeting up to 4 metres high and **Stramit Monoclad®** wall sheeting to 6 metres high.

STRAI	MIT® W	ALL SHE	ETING	& CLAI	DDING -	- FORM	& FUN	CTION S	ELECT	ION	
	Stramit Mini Corry®	Stramit Minirib®	Stramit Premier 300"	Stramit® C-Clad 200	Stramit® C-Clad 280	Stramit K-Panel®	Stramit Lo-Clad™	Stramit Monoclad®	Stramit Speed Deck Ultra®	Stramit Longspan [®]	Stramit® Corrugated
vertical use	***	***	*	*	*	***	***	***	**	***	***
horizontal use	**	**	***	***	***	**	**	**	*	**	**
internal use	***	***	**	**	**	**	**	**	**	**	**
external use	*	**	***	***	***	***	***	***	***	***	***
clean appearance	**	**	**	**	**	**	**	**	**	**	**
fastener exposure	**	*	***	***	***	**	**	**	***	**	**
ceiling/soffit use	***	***	**	**	**	**	**	**	*	**	**
ease of fixing	**	**	***	***	***	***	***	***	**	***	***
spring curving	**	***	*	*	*	**	**	*	*	**	**
wind resistance	**	**	**	**	**	**	***	***	***	***	** **

NOTE: Not all profiles are available in all locations - check the Stramit website, or contact your nearest Stramit location.

Procurement

Prices

Prices on **Stramit**® wall sheeting & 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.

Length

Stramit® wall sheeting & 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.

Related Products



Stramit® Flashings – a range of standard and custom flashings for covers and capping

Ordering

Stramit® wall sheeting & cladding can be ordered directly, through distributors, or supplied and fixed from a roofing and walling contractor.

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**® wall sheeting & cladding, care should be taken to ensure that the load is spread to prevent damage.

Handling/Storage

Stramit® wall sheeting & 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.

Spans

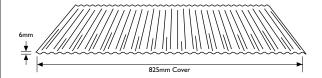
The spans shown below take account of and wind resistance including local pressure zone effects. Pressures are based on AS4055 or AS1170.2 section 2. Where the two standards differ, the worst case has been taken for each classification. Data should only be used for buildings 7m or less in height, 1000m² or less in area and unaffected by land topography.

					wall	s		over	hangs
NA/ II . I . I . I	thickness	fasteners		re (kPa)			internal		
Wall cladding/sheeting	bmt (mm)	per sheet at each support	service -ability	strength	double spans	equal spans	(end) span combination	free edge	stiffene edge
NI or Region A (sheltered	suburban)				<u>'</u>	<u> </u>			
Stramit Mini Corry®	0.42	7	0.61	1.04	1200	1200	1200 (1000)	100	100
Stramit Minirib®	0.42	4	0.61	1.04	1500	1500	1500 (1250)	100	100
Stramit Premier 300™	0.55	1	0.61	1.04	2150	2150	2150 (1750))	100	250
Stramit® C-Clad 200	0.70	1	0.61	1.04	2800	2800	2800 (2300)	100	250
Stramit® C-Clad 280	0.55	1	0.61	1.04	2300	2300	2300 (1900)	100	250
Stramit K-Panel®	0.35	4	0.61	1.04	1200	1250	1500 (1250)	100	100
Stramit K-Panel®	0.42	4	0.61	1.04	1350	1450	1700 (1400)	100	100
Stramit Lo-Clad™	0.42	5	0.61	1.04	2150	2150	2150 (1750)	100	150
Stramit Monoclad®	0.35	4	0.61	1.04	2300	2500	3000 (2500)	100	350
Stramit Monoclad®	0.42	4	0.61	1.04	2700	2850	3000 (2500)	150	400
Stramit Speed Deck Ultra®	0.42	3 + clip	0.61	1.04	3000	2850	3000 (2500)	200	500
Stramit Longspan®	0.42	3	0.61	1.04	2700	2700	3000 (2500)	200	500
Stramit® Corrugated	0.42	3	0.61	1.04	2050	2050	2650 (2200)	100	250
N2 or Region B (sheltered	suburban) a	and Region A (e	exposed s	uburban)					
Stramit Mini Corry®	0.42	7	0.61	1.49	1200	1200	1200 (1000)	100	100
Stramit Minirib®	0.42	4	0.61	1.49	1200	1200	1200 (1000)	100	100
Stramit Premier 300™	0.55	i	0.61	1.49	2150	2150	2150 (1750))	100	250
Stramit® C-Clad 200	0.70	i	0.61	1.49	2650	2650	2650 (2200)	100	250
Stramit® C-Clad 280	0.55	i	0.61	1.49	1700	1700	1700 (1400)	100	250
Stramit K-Panel®	0.35	4	0.61	1.49	1200	1250	1500 (1250)	100	100
Stramit K-Panel®	0.42	4	0.61	1.49	1350	1450	1700 (1400)	100	100
Stramit Lo-Clad™	0.42	5	0.61	1.49	2150	2150	2150 (1750)	100	150
Stramit Monoclad®	0.35	4	0.61	1.49	2300	2500	3000 (2500)	100	350
Stramit Monoclad®	0.42	4	0.61	1.49	2700	2850	3000 (2500)	150	400
Stramit Speed Deck Ultra®	0.42	3 + clip	0.61	1.49	3000	2850	3000 (2500)	150	450
Stramit Longspan®	0.42	3	0.61	1.49	2700	2700	3000 (2500)	150	450
Stramit® Corrugated	0.42	3	0.61	1.49	2050	2050	2650 (2200)	100	250
N3 or Region A (rural) and									
Stramit Mini Corry®	0.42	7	0.92	2.25	1100	1100	1100 (900)	100	100
Stramit Minirib®	0.42	4	0.92	2.25	1000	1000	1000 (800)	100	100
Stramit Premier 300™	0.55	1	0.92	2.25	1500	1500	1500 (1250))	100	200
Stramit® C-Clad 200	0.70	i	0.92	2.25	1700	1700	1700 (1400)	100	200
Stramit® C-Clad 280	0.55	i	0.92	2.25	1150	1200	1200 (1000)	100	200
Stramit K-Panel®	0.35	4	0.92	2.25	1000	1050	1250 (1000)	100	100
Stramit K-Panel®	0.42	4	0.92	2.25	1100	1200	1450 (1200)	100	100
Stramit Lo-Clad™	0.42	5	0.92	2.25	1850	1850	1850 (1500)	100	100
Stramit Monoclad®	0.35	4	0.92	2.25	1750	1950	2550 (2100)	100	250
Stramit Monoclad®	0.42	4	0.92	2.25	2050	2200	2800 (2300)	100	300
Stramit Speed Deck Ultra®	0.42	3 + clip	0.92	2.25	2600	2350	2900 (2400)	100	400
Stramit Longspan®	0.42	3 + clip	0.92	2.25	2050	2050	2350 (1950)	100	400
Stramit Longspan Stramit® Corrugated	0.42	3	0.92	2.25	1650	1650	2150 (1750)	100	200

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 0.75mm or thicker.

For more specific applications sheeting must be designed to the pressure limitations given in this or the product technical manual for each product.

STRAMIT MINI CORRY® PANELLING



Design

Applications

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

Features

- 825mm Cover to maximise efficiency and reduce costs.
- Easy Fixing conventional fixing for quick installation and good appearance.
- Small Rib Size small scale version of normal corrugated.
- New Roll Formed Profile with consistent profile and longer lengths to enhance the appearance of any project.
- High Tensile Material to improve handling and performance.
- New Architectural Features curved and perforated acoustic products are also available.

Appearance

Stramit Mini Corry® panelling has shallow corrugations and a subtle appearance ideal for many applications. However the subtlety of the profile exacerbates manufacturing imperfections which are present in all roll-formed products. Whilst these are usually quite satisfactory they may be less so in applications where a very flat or uniform finish is expected. Please contact your Stramit representative to discuss particular applications.

Material

Stramit Mini Corry® panelling is a cold roll formed steel product in G550 base material (550 MPa minimum yield stress) with a zinc-aluminium alloy (AZ150) coating in accordance with AS1397 and colour coating available in a range of colours.

STRAMIT MINI CORRY® PANELLING – SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.42	3.95	4.02

Pressures

STRAMIT MINI CORRY® PANELLING – SERVICEABILITY LIMIT STATE CAPACITY

thickness	fasteners	span	pressure	(kPa) at th	e spans (m	ım) shown
BMT	/sheet	type	600	900	1200	1500
	7	internal	5.03	1.58	0.63	0.32
0.42		equal	5.03	1.58	0.63	0.32
		double	5.03	1.58	0.63	0.32

STRAMIT MINI CORRY® PANELLING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

thickness	fasteners	span	pressure	(kPa) at th	e spans (m	m) shown
BMT	/sheet	type	600	900	1200	1500
		internal	9.93	5.71	3.86	2.84
0.42	7	equal	9.93	5.71	3.86	2.84
		double	9.93	5.71	3.86	2.84

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 0.75mm or thicker.

Impact

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

Spring Curving

Stramit Mini Corry® panelling is able to be spring curved to a radius as tight as 2000mm for additional architectural versatility. However, at radii of 6000mm or less the support spacing must be reduced to no greater than 1000mm.

Stramit Mini Corry® Fasteners

All self-drilling fasteners should conform to AS3566 - Class 3 and be completely compatible with the cladding material used.



For steel

- 'Rippletek' or No. 10 x 16mm wafer head self-drilling, self-tapping screws.



In internal applications and for side laps, plain or pre-painted 3.2mm diameter sealed aluminium pop rivets can be used.



For timber

- No. 10 x 25mm wafer head self-drilling type 17 screws.

Stramit Mini Corry® Fastener Positions

Exposed applications require valley fixing as shown in the diagram to ensure an anti-capillary space aids in weather protection. **Stramit Mini Corry®** panelling is usually fixed with 7 fasteners per sheet as shown.

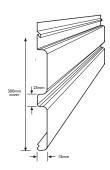
For internal applications **Stramit Mini Corry**® panelling with spaces of 1000mm or more requires the side lap to be stitched at mid-span.



For installation information see the section later in this manual.

NOTE – additional fasteners do not allow greater spans.

STRAMIT® PREMIER 300™ WALL SHEETING



Applications

Stramit Premier 300™ wall sheeting has an appealing smooth faced finish with concealed fixings, designed for feature walling and is effective in both horizontal and diagonal applications.

Features

- Simple Installation "fix, hinge and cover and fix again" procedure.
- 300mm Wide Cover for fast installation with the minimum of sheets and fasteners.
- Continuous Interlocking to weatherseal all joints.
- · Secret Fixing fasteners are concealed from view to give a smooth appearance.
- · Low Profile for clean appearance and easy flashing and cleaning.
- Horizontal or Vertical Applications or any angle in between, to suit almost any architectural requirement.

Material

Stramit Premier 300™ wall sheeting is a cold roll formed steel product in G300 base material (300 MPa minimum yield stress) with a zinc-aluminium alloy coating inaccordance with ASI397 and colour coating available in a range of colours.

STRAMIT® PREMIER 300™ WALL SHEETING -SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.55	5.55	5.66

Pressures

STRAMIT® PREMIER 300™ WALL SHEETING -SERVICEABILITY LIMIT STATE CAPACITY

span	þi	ressure ((kPa) at t	he span	s (mm) :	shown	
type	600	900	1200	1500	1800	2100	2400
internal	1.59	1.45	1.29	1.10	0.90	0.67	0.42
equal	1.59	1.45	1.29	1.10	0.90	0.67	0.42
double	1.59	1.45	1.29	1.10	0.90	0.67	0.42

STRAMIT® PREMIER 300™ WALL SHEETING -STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

span	þi	ressure ((kPa) at t	he span	s (mm) :	shown	
type	600	900	1200	1500	1800	2100	2400
internal	6.75	4.23	3.04	2.35	1.90	1.59	1.36
equal	6.75	4.23	3.04	2.35	1.90	1.59	1.36
double	6.75	4.23	3.04	2.35	1.90	1.59	1.36

Tables are based on testing to ASI562 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 0.75mm or thicker.

*Refer to Stramit Cyclonic Areas Roof and Wall Cladding brochure for data applicable to cyclonic regions

Impact

For wall areas likely to be subject to human impact, sheeting spans should be reduced. Impact loads will vary considerably and these are not prescribed in Australian Standards. A maximum span of 1200mm is suggested for such areas, but this should be adjusted dependant upon the exposure and importance of the application.

Stramit® Premier 300™ Fasteners

All fasteners should conform to AS3566 - Class 3 and be compatible with the cladding material used.



For steel

- No. 10 x 16mm wafer head self drilling, self tapping screws.



For timber

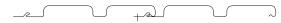
 No. 10 x 25mm type wafer head self drilling Type 17 screws. Add 10mm to screw length for softwood applications.



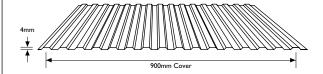
Alternatively use 4mm aluminium pop rivets or 40mm flat head galvanised clouts for steel or timber respectively.

Stramit® Premier 300™ Fastener Positions

Use one fastener per sheet at each support placed in the pre-punched slots.



STRAMIT MINIRIB® PANELLING



Design

Applications

Stramit Minirib® panelling has a near flat profile for discreet panel areas. Widely used as a transport siding, portable buildings and internal shed wall lining **Stramit Minirib**® panelling also finds use for narrow soffits.

Features

- 900mm Cover for maximum use of material whenever applications permit.
- Easy Fixing conventional through fixed screws maximise performance and installation.
- Low Rib Height to allow flexibility in the sheet for architectural treatments.
- Versatility suitable for a variety of applications in both architectural and industrial markets
- Hi-tensile Steel for greater damage resistance and performance.

Materials

Stramit Minirib® panelling is a cold roll formed steel product in G550 base material (550 MPa minimum yield stress) with a zinc-aluminium alloy (AZ150) coating in accordance with AS1397 and colour coating available in a range of colours.

STRAMIT MINIRIB® PANELLING – SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.42	3.62	3.68

Pressures

STRAMIT MINIRIB® PANELLING – SERVICEABILITY LIMIT STATE CAPACITY							
span	pres	ssure (kPa)	at the spar	ns (mm) sh	own		
type	600	900	1200	1500	1800		
internal	3.41	2.39	1.84	1.49	1.25		
equal	3.41	2.39	1.84	1.49	1.25		
double	3.41	2.39	1.84	1.49	1.25		

STRAMIT MINIRIB® PANELLING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

span	þres	sure (kPa)	at the span	ns (mm) sho	own
type	600	900	1200	1500	1800
internal	5.79	2.67	1.56	1.04	0.74
equal	5.79	2.67	1.56	1.04	0.74
double	5.79	2.67	1.56	1.04	0.74

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 0.75mm or thicker.

Impact

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

Spring Curving

Stramit Minirib® panelling is able to be spring curved to a radius as tight as 2000mm for additional architectural versatility. However, at radii of 6000mm or less the support spacing must be reduced to no greater than 600mm.

Stramit Minirib® Fasteners

All fasteners should conform with AS3566 - Class 3 and be compatible with the cladding material used.



For steel

- No. 12 x 20mm hex head self-drilling, self-tapping screws.



In internal applications, 3.2mm aluminium pop rivets.



For timber

 No. 12 x 25mm hex head self-drilling type 17 screws. Add 10mm to screw length for softwood applications.



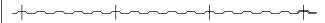
Side laps

No. 8 x 12mm 'S' point screws or
3.2mm sealed aluminium pop rivets.

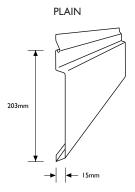
Stramit Minirib® Fastener Position

For external applications, side lap fasteners are required at 200-300mm centres. At all supports, 4 equally spaced fasteners are required across the sheet including one fastener through or adjacent to the overlap.

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



STRAMIT® C-CLAD 200 WALL SHEETING



Applications

Stramit® C-Clad 200 wall sheeting has an appealing smooth faced finish with concealed fixings, designed for feature walling and is effective in both horizontal and diagonal applications. The 203 fastener spacing gives enhanced wind resistance.

Features

- Finish attractive plain or finish.
- Versatility can be used in either vertical or horizontal applications.
- Simple Installation "fix, hinge and cover and fix again" procedure.
- 203mm Cover ensures solid fixing and very high wind load performance.
- Interlocking Panels ensure weatherseal at all joints.
- Secret Fixing fasteners are concealed from view to give a smooth appearance.

Appearance

Plain **Stramit® C-Clad 200** wall sheeting has a wide flat face ideal for many applications. However all roll-formed products with wide flat areas exhibit a subtle wave pattern (known as oil-canning) when viewed from an angle. Whilst un-noticeable in many applications this phenomena may prove less satisfactory in applications where a very flat or uniform finish is expected. Please contact your Stramit representative to discuss particular applications.

Material

Stramit® C-Clad 200 wall sheeting is a cold roll formed steel product in G300 base material (300 MPa minimum yield stress) with a zinc-aluminium alloy substrate in accordance with AS1397, and colour coating available in a limited range of colours.

STRAMIT® C-CLAD 200 WALL SHEETING – SHEETING MASS (kg/m² of roof area)

	` `	•
thickness BMT	ZINCALUME [®]	COLORBOND®
0.70 (plain)	7.48	7.56

Pressures

STRAMIT® C-CLAD 200 WALL SHEETING -SERVICEABILITY LIMIT STATE CAPACITY

span		þre	essure (kPa) at	the st	oans (m	nm) sho	own	
type	600	900	1200	1500	1800	2100	2400	2700	3000
internal	6.68	3.37	2.12	1.50	1.14	0.91	0.75	0.64	0.55
equal	6.68	3.37	2.12	1.50	1.14	0.91	0.75	0.64	0.55
double	7.45	3.76	2.36	1.67	1.27	1.02	0.84	0.71	0.62

STRAMIT® C-CLAD 200 WALL SHEETING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

span		þre	essure (kPa) a	the st	oans (m	nm) sho	own	
type	600	900	1200	1500	1800	2100	2400	2700	3000
internal	5.57	4.02	3.13	2.56	2.16	1.87	1.65	1.48	1.34
equal	5.57	4.02	3.13	2.56	2.16	1.87	1.65	1.48	1.34
double	6.22	4.49	3.50	2.86	2.42	2.09	1.85	1.65	1.49

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 0.75mm or thicker. Data is valid for both swaged and plain finishes.

Impact

For wall areas likely to be subject to human impact, sheeting spans should be reduced. Impact loads will vary considerably and these are not prescribed in Australian Standards. A maximum span of 1200mm is suggested for such areas, but this should be adjusted dependant upon the exposure and importance of the application.

Stramit® C-Clad 200 Fasteners

All fasteners should conform to AS3566 – Class 3 and be compatible with the cladding material used.



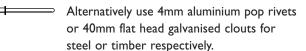
For steel

 No. 10 x 16mm wafer head self drilling, self tapping screws.



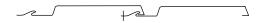
For timber

- No. 10 x 25mm type wafer head self drilling Type 17 screws. Add 10mm to screw length for softwood applications.

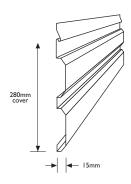


Stramit® C-Clad 200 Fastener Positions

Use one fastener per sheet at each support placed in the pre-punched slots.



STRAMIT® C-CLAD 280 WALL SHEETING



Applications

Stramit® C-Clad 280 wall sheeting has an appealing smooth faced finish with concealed fixings, designed for feature walling and is effective in both horizontal and diagonal applications.

Features

- Simple Installation "fix, hinge and cover and fix again" procedure.
- 280mm Cover for fast installation with the minimum of sheets and fasteners.
- Continuous Interlocking to weatherseal all joints.
- Secret Fixing fasteners are concealed from view to give a smooth appearance.
- Low Profile for clean appearance and easy flashing and cleaning.
- Horizontal or Vertical Applications or any angle in between, to suit almost any architectural requirement.

Material

Stramit® C-Clad 280 wall sheeting is a cold roll formed steel product in G300 base material (300 MPa minimum yield stress) with a zinc-aluminium alloy coating in accordance with ASI397 and colour coating available in a range of colours.

STRAMIT® C-CLAD 280 WALL SHEETING -SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.55	5.55	5.66

Pressures

STRAMIT® C-CLAD 280 WALL SHEETING -SERVICEABILITY LIMIT STATE CAPACITY

span	Þ	ressure ((kPa) at i	the span	s (mm) :	shown	
type	600	900	1200	1500	1800	2100	2400
internal	3.41	2.39	1.84	1.49	1.25	1.08	0.95
equal	3.41	2.39	1.84	1.49	1.25	1.08	0.95
double	3.46	2.42	1.86	1.51	1.27	1.10	0.96

STRAMIT® C-CLAD 280 WALL SHEETING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

span	þi	ressure ('kPa) at t	he span	s (mm) :	shown	
type	600	900	1200	1500	1800	2100	2400
internal	5.47	3.22	2.26	1.73	1.40	1.17	1.01
equal	5.47	3.22	2.26	1.73	1.40	1.17	1.01
double	5.42	3.20	2.24	1.72	1.39	1.16	1.00

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 0.75mm or thicker.

Impact

For wall areas likely to be subject to human impact, sheeting spans should be reduced. Impact loads will vary considerably and these are not prescribed in Australian Standards. A maximum span of 1200mm is suggested for such areas, but this should be adjusted dependant upon the exposure and importance of the application.

Stramit® C-Clad 280 Fasteners

All fasteners should conform to AS3566 – Class 3 and be compatible with the cladding material used.



For steel

 No. 10 x 16mm wafer head self drilling, self tapping screws.



For timber

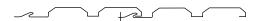
 No. 10 x 25mm type wafer head self drilling Type 17 screws. Add 10mm to screw length for softwood applications.



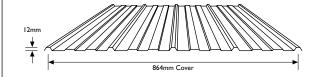
Alternatively use 4mm aluminium pop rivets or 40mm flat head galvanised clouts for steel or timber respectively.

Stramit® C-Clad 280 Fastener Positions

Use one fastener per sheet at each support placed in the pre-punched slots.



STRAMIT K-PANEL® WALL SHEETING



Applications

Stramit K-Panel® wall sheeting is an economical and neat profile used widely in small sheds and light industrial buildings as well as soffits and fascias.

Features

- 864mm to maximise efficiency and reduce costs.
- Easy Fixing conventional through fixed screws maximise performance and installation.
- Low Rib Height for smart neat appearance used effectively in minimal dust zones.
- Fast Erection a quick covering profile with simple fastening.

Materials

Stramit K-Panel® wall sheeting is a cold roll formed steel product in G550 base material with a zinc-aluminium alloy (AZ150) coating in accordance with AS1397 and colour coating available in a range of colours.

STRAMIT K-PANEL® WALL SHEETING -SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.35	3.11	3.17
0.42	3.77	3.84

Pressures

STRAMIT K-PANEL® WALL SHEETING – SERVICEABILITY LIMIT STATE CAPACITY

thickness fastener		pressure (kPa) at the spans (mm) shown				
/sheet	type	600	900	1200	1500	1800
0.35 4	internal	4.23	1.87	1.03	0.64	0.42
	equal	2.94	1.29	0.70	0.42	0.26
	double	2.55	1.12	0.61	0.36	0.23
	internal	5.60	2.48	1.37	0.84	0.55
0.42 4	equal	3.89	1.70	0.92	0.55	0.35
	double	3.38	1.48	0.80	0.48	0.30
	/sheet	/sheet type internal 4 equal double internal 4 equal	/sheet type 600 internal 4.23 4 equal 2.94 double 2.55 internal 5.60 4 equal 3.89	/sheet type 600 900 internal 4.23 1.87 4 equal 2.94 1.29 double 2.55 1.12 internal 5.60 2.48 4 equal 3.89 1.70	/sheet type 600 900 1200 internal 4.23 1.87 1.03 4 equal 2.94 1.29 0.70 double 2.55 1.12 0.61 internal 5.60 2.48 1.37 4 equal 3.89 1.70 0.92	/sheet type 600 900 1200 1500 internal 4.23 1.87 1.03 0.64 4 equal 2.94 1.29 0.70 0.42 double 2.55 1.12 0.61 0.36 internal 5.60 2.48 1.37 0.84 4 equal 3.89 1.70 0.92 0.55

STRAMIT K-PANEL® WALL SHEETING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

thickness fastene		s span	pressure (kPa) at the spans (mm) shown				
BMT	/sheet	type	600	900	1200	1500	1800
0.35 4	internal	12.5	7.75	5.28	3.77	2.75	
	equal	10.1	6.11	4.02	2.75	1.89	
	double	9.87	5.93	3.90	2.67	1.84	
		internal	15.3	9.48	6.45	4.61	3.36
0.42	4	equal	12.4	7.47	4.91	3.36	2.32
		double	12.1	7.24	4.77	3.26	2.25

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 0.75mm or thicker.

Impact

For wall areas likely to be subject to human impact, sheeting spans should be reduced. Impact loads will vary considerably and these are not prescribed in Australian Standards. A maximum span of 1000mm is suggested for such areas, but this should be adjusted dependent upon the exposure and importance of the application.

Stramit K-Panel® Fasteners

All fasteners should conform with AS3566 - Class 3 and be compatible with the cladding material used.



For steel

 No. 10 x 16mm hex head self-drilling, self-tapping screws.





- No. 12 x 25mm hex head self-drilling type 17 screws. Add 10mm to screw length for softwood applications.

Side laps



No. 8 x I2mm 'S' point screws or



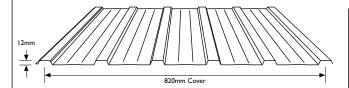
- 3.2mm diameter sealed aluminium pop rivets.

Stramit K-Panel® Fastener Position

Fix adjacent to the overlap and each subsequent rib (4 fasteners per sheet) at every support. Spans over 900mm require the sidelaps to be stitched at mid-span.



STRAMIT LO-CLAD" WALL SHEETING



Applications

Stramit Lo-Clad™ wall sheeting is an economical but attractive cladding for both industrial and some domestic applications. The low profile makes it effective in soffits and fascias as well as walling.

Features

- 820mm Cover to maximise efficiency and reduce costs.
- Easy Fixing conventional through fixed screws maximise performance and installation.
- Low Rib Height for smart, neat appearance. Used effectively in minimal dust zones, eg: health applications.
- Versatility suitable for many applications garage doors, soffits, fascias and general wall cladding requirements.

Material

Stramit Lo-Clad[™] wall sheeting is a cold roll formed wall cladding. Steel product is 0.42mm G550 base material (550 MPa minimum yield stress).

STRAMIT LO-CLAD WALL SHEETING - SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.42	3.98	4.04

Pressures

STRAMIT LO-CLAD™ WALL SHEETING – SERVICEABILITY LIMIT STATE CAPACITY

span	pressure (kPa) at the spans (mm) shown								
type	600	900	1200	1500	1800	2100	2400		
internal	6.43	3.47	2.17	1.44	0.98	0.66	0.42		
equal	6.43	3.47	2.17	1.44	0.98	0.66	0.42		
double	6.65	3.59	2.24	1.49	1.01	0.68	0.44		

STRAMIT LO-CLAD™ WALL SHEETING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

span	pressure (kPa) at the spans (mm) shown								
type	600	900	1200	1500	1800	2100	2400		
internal	11.5	7.97	5.82	4.41	3.42	2.69	2.13		
equal	11.5	7.97	5.82	4.41	3.42	2.69	2.13		
double	9.95	6.90	5.04	3.82	2.96	2.33	1.84		

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 0.75mm or thicker.

Impact

For wall areas likely to be subject to human impact, sheeting spans should be reduced. Impact loads will vary considerably and these are not prescribed in Australian Standards. A maximum span of 1000m is suggested for such areas, but this should be adjusted dependent upon the exposure and importance of the application.

Stramit Lo-Clad™ Fasteners

All fastening screws must conform to AS3566 – Class 3. They are to be hexagon headed and, for water resistant applications, must be used with sealing washers. Pan-fix to girts top hats or stud using:



For steel (0.75bmt or greater)

 No.10 x 16mm self-drilling and threading screws.



For timber (FII or better)

- No. 10 x 25mm type 17 screws.





- No. 8 x 12mm 'S' point screws or,

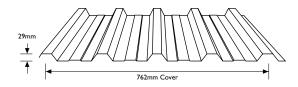
3.2mm diameter sealed aluminium poprivets.

Stramit Lo-Clad™ Fastener Positions

Fix adjacent to the overlap and each subsequent rib (5 fasteners per sheet) at every support. Spans over 1000mm require the sidelaps to be stitched at mid-span.



STRAMIT MONOCLAD® WALL SHEETING



Applications

Stramit Monoclad® wall sheeting is a strong and efficient profile ideal for economical applications such as industrial and agricultural buildings. Used horizontally in discreet lengths with separating flashing **Stramit Monoclad®** wall sheeting can be an extremely effective finish for commercial buildings.

Features

- Simple Installation through fixing for ease of assembly.
- 762mm Cover quick installation and easy handling.
- · Hi-tensile Steel lightweight and high strength.
- Deep Ribs provide excellent spanning capability.
- Fully Tested a full range of load performance tables to suit almost any application.

Material

Stramit Monoclad® wall sheeting is manufactured from G550 colour coated steel or zinc-aluminium alloy coated steel. Colour coated steels are in accordance with AS2728 – Category 3 and for the substrate with AS1397. Zinc-aluminium alloy coated AZ150 conforms to AS1397.

STRAMIT MONOCLAD® WALL SHEETING – SHEETING MASS (kg/m² of roof area)

thickness BMT	ZINCALUME [®]	COLORBOND®
0.35	3.53	3.59

Pressures

STRAMIT MONOCLAD® WALL SHEETING - SERVICEABILITY LIMIT STATE CAPACITY

span type		pressure (kPa) at the spans (mm) shown								
	600	900	1200	1500	1800	2100	2400	2700		
internal	4.33	4.33	3.00	2.21	1.68	1.31	1.03	18.0		
equal	4.00	4.00	2.29	1.50	1.07	0.82	0.65	0.53		
double	3.25	3.25	1.87	1.24	0.90	0.70	0.57	0.48		

STRAMIT MONOCLAD® WALL SHEETING – STRENGTH LIMIT STATE CAPACITY (Non-cyclonic)

span		pressure (kPa) at the spans (mm) shown								
type	600	900	1200	1500	1800	2100	2400	2700		
internal	6.70	6.70	6.03	4.50	3.57	2.98	2.54	2.21		
equal	6.70	6.70	4.69	3.57	2.87	2.38	2.03	1.76		
double	6.70	6.70	4.69	3.57	2.87	2.38	2.03	1.76		

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 0.75mm or thicker.

Impact

For wall areas likely to be subject to human impact, sheeting spans should be reduced. Impact loads will vary considerably and these are not prescribed in Australian Standards. A maximum span of 1500mm is suggested for such areas, but this should be adjusted dependant upon the exposure and importance of the application.

Stramit Monoclad® 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 (0.75bmt or greater)

- No. 10 x 16mm self-drilling and threading screws for pan fixing to walls.



For timber (FII or better)

 No. 10 x 25mm type 17 screws for pan fixing to walls.





- No. 8 x 12mm 'S' point screws or



 - 3.2mm diameter sealed aluminium pop rivets.

Stramit Monoclad® Fastener Positions

Fix adjacent to the overlap and each subsequent rib (4 fasteners per sheet) at every support. Spans over 1200mm require the sidelaps to be stitched at mid-span.



STRAMIT® WALL SHEETING & CLADDING

Installation

Fasteners

All fastening screws must conform to AS3566 – Class 3 or better. Sizes and types of fastenings for each profile are specified earlier in the Design section of this manual.

Exposed Edges

To avoid the risk of cuts, wall applications accessible to personnel should be designed to avoid exposed edges. Sheet ends should be well recessed or covered by flashings with folded edges. Profiles with exposed sheet overlays, when sidelap fasteners are correctly installed, fit snugly and are generally satisfactory.

Installation

Do not over-tighten screws and ensure they are kept perpendicular to the sheet during installation.

For maximum protection from weather intrusion vertical sheets should be laid with the exposed edge of the overlaps away from the direction of the prevailing weather.

Horizontal or diagonal sheets must be laid with the exposed edge of the overlap at the bottom of each sheet. Horizontal or diagonal sheets will also require a suitable under flashing as some rainwater may run or be blown to the sheet ends

WARNING - Do not use Stramit® wall sheeting & cladding as a roof sheet.

Installation of **Stramit**[®] walling is a straightforward procedure using the following fixing sequence:

- Ensure all girts or wall frame studs are in line, correctly installed and that lining materials (if specified) are in place.
- 2. Position and fix the first sheet ensuring the correct sheet overhangs (minimum 50mm from the edge fastener).
- Continue to fix subsequent sheets checking that sheet ends at the lower edge are exactly aligned, and that sheets sit correctly so that the integral anti-capillary space is effective.
- 4. Measure the overall cover width at top and bottom of the sheets from time to time to avoid 'fanning'.
- 5. Stitch the sidelaps at midspan for wall spans exceeding that specified for each product.
- 6. Install flashings.
- 7. Clean up after each days work, removing all screws, cutting, swarf etc, and leave clean and watertight.

Good Practice

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

Cutting

Stramit® wall sheeting & 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.

Painting

Stramit® wall sheeting & cladding is available in COLORBOND® steel colours. However should painting of ZINCALUME® products be required, use the following procedure.

A 'weathering' period of two weeks following installation will make painting easier. Clean the sheeting immediately prior to painting. Dirt can be washed off using water with mild detergent. Any grease marks should be wiped away with paint thinners. In benign locations good quality acrylic paint will give satisfactory performance. First use a low-gloss water-borne acrylic primer. Finish with water-borne acrylic gloss (or your choice of gloss level). For marine or severe environments seek specialist advice.

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, and soffits or eaves linings are such a situation.

Cleaning

Should it become necessary to wash **Stramit**® wall cladding or sheeting (COLORBOND® or ZINCALUME®) follow the procedure below:

- 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 soft bristle nylon brush.
- 2. Thoroughly rinse with clean water immediately after cleaning.

WARNING - Never use abrasive or solvent type cleaners (e.g. turps, petrol, thinners or kerosene) on colour coated steel.



The Stramit web page can be found at: $\frac{1}{2}$

www.stramit.com.au

Details of many **Stramit*** products can also be seen on the AIA site 'Product Selector' at: www.selector.com.au

Building Products		prices	availability	general	technical
contact numbers for information			products coating colours	other	advice product data
BRISBANE	phone		(07) 3803 9999		
57-71 Platinum Street, Crestmead QLD 4132	fax		(07) 3803 1499		
TOWNSVILLE 402-408 Bayswater Road, Garbutt QLD 4814	phone fax		(07) 4779 0844 (07) 4775 7155		
CAIRNS Vickers Street, Edmonton QLD 4869	phone fax		(07) 4045 3069 (07) 4045 4762		
MACKAY Brickworks Court, Glenella QLD 4740	phone fax		(07) 4942 3488 (07) 4942 2343		(07) 3803 9999 (07) 3803 1499
MARYBOROUGH 10 Activity St, Maryborough QLD 4650	phone fax		(07) 4121 2433 (07) 4123 3139		
ROCKHAMPTON 41 Johnson St, Parkhurst QLD 4702	phone fax		(07) 4936 2577 (07) 4936 4603		
SUNSHINE COAST Unit 1,5 Kerryl St, Kunda Park QLD 4556	phone fax		(07) 5456 4083 (07) 5456 4862		
MURWILLUMBAH 6 Kay Street, Murwillumbah NSW 2484	phone fax		(02) 6672 8542 (02) 6672 6798		
DARWIN 55 Albatross Street, Winnellie NT 0820	phone fax		(08) 8947 0780 (08) 8947 1577		
SYDNEY 33-83 Quarry Road, Erskine Park NSW 2759	phone fax	(02) 983 (02) 983		(02) 9834 0900 (02) 9834 0988	
CANBERRA 4 Bass Street, Queanbeyan NSW 2620	phone fax		(02) 6297 3533 (02) 6297 8089		
COFFS HARBOUR 6 Mansbridge Drive, Coffs Harbour NSW 2450	phone fax		(02) 6652 6333 (02) 6651 3395		(02) 4954 5033 (02) 4954 5856
NEWCASTLE 17 Nelson Road, Cardiff NSW 2285	phone fax		(02) 4954 5033 (02) 4954 5856		
ORANGE 51 Leewood Drive, Orange NSW 2800	phone fax		(02) 6361 0444 (02) 6361 9814		
MELBOURNE 2/1464 Ferntree Gully Road, Knoxfield VIC 3180	phone fax	(03) 923 (03) 923		(03) 9237 6200 (03) 9237 6299	
ALBURY 18 Ariel Drive, Albury NSW 2640	phone fax		(02) 6041 7600 (02) 6041 7666		
BENDIGO Ramsay Court, Kangaroo Flat VIC 3555	phone fax		(03) 5447 8455 (03) 5447 9677		
HOBART 57 Crooked Billett Drive, Brighton TAS 7030	phone fax		(03) 6263 5536 (03) 6263 6950		(03) 6263 5536
LAUNCESTON 9 Richard Street, Western Junction TAS 7212	phone fax		(03) 6391 9293 (03) 6391 8774		(03) 6263 6950
ADELAIDE 11 Stock Road, Cavan SA 5094	phone fax		(08) 8262 4444 (08) 8262 6333		(08) 8262 4444 (08) 8262 6333
PERTH 605-615 Bickley Road, Maddington WA 6109	phone fax		` '	93 8800 93 8899	
BUNBURY I Proffit Street, Bunbury WA 6230	phone fax		. ,	21 8046 21 8017	

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