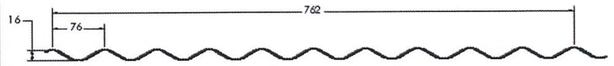
IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1) THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.

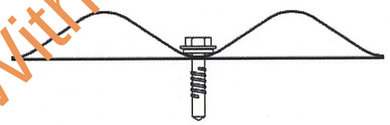
Profile



STRAMIT® CORRUGATED WALL RECOMMENDED FASTENINGS (CYCLONIC FIXING)	
STEEL 0.75mm thick	No 14 - 10 x 20mm Hex Head Type 17 screws + sealing washer
STEEL ≥ 1.5mm thick	No 14 - 10 x 20mm Hex Head Self-drilling and tapping screw + sealing washer
TIMBER	No 14 - 10 x 25mm Hex Head type 17 screws + sealing washer
SIDE LAP	No 8 - 15 x 15mm Hex Head screw + sealing washer for spans exceeding 1200mm
All fastening screws should conform to AS3566- class 4 or above.	

Fastener locations

Valley fixing detail



Span tables

STRAMIT® CORRUGATED WALL CLADDING MAXIMUM SPAN CHART (mm)	$C_{p,e}$ = -0.65 (0 to 1*h*) Cp,i = 0.2 (Service), $C_{p,i}$ = 0.7 (Strength)
Pan fixed wall sheeting - five fasteners per sheet.	

TC	h	local press. factor	pressure (kPa)	pressure (kPa)	Spacing of Timber Battens / 0.75mm Cyclonic Steel Battens 0.42mm thick (bmt)		
			service	strength	internal	equal	double
1&2	≤ 10m	1.0	1.41	4.84	900	800	800
		1.5	1.95	6.00	650	650	650
		2.0	2.43	7.17	–	–	–
1&2 2.5	≤ 5m ≤ 10m	1.0	1.24	4.25	1150	900	900
		1.5	1.72	5.28	800	750	750
		2.0	2.19	6.30	600	600	600
2.5 3&4	≤ 5m ≤ 10m	1.0	0.85	2.92	1800	1400	1400
		1.5	1.18	3.62	1450	1200	1200
		2.0	1.50	4.32	1100	850	850
3&4	≤ 5m	1.0	0.78	2.66	1800	1500	1500
		1.5	1.07	3.30	1600	1300	1300
		2.0	1.37	3.94	1300	1100	1100

STRAMIT® CORRUGATED WALL CLADDING MAXIMUM SPAN CHART (mm)	$C_{p,e}$ = -0.5 (1*h* to 2*h*) Cp,i = 0.2 (Service), $C_{p,i}$ = 0.7 (Strength)
Pan fixed wall sheeting - five fasteners per sheet.	

TC	h	local press. factor	pressure (kPa)	pressure (kPa)	Spacing of Timber Battens / 0.75mm Cyclonic Steel Battens 0.42mm thick (bmt)		
			service	strength	internal	equal	double
1&2	≤ 10m	1.00	1.16	4.30	1150	900	900
1&2 2.5	≤ 5m ≤ 10m	1.00	1.02	3.78	1400	1200	1200
2.5 3&4	≤ 5m ≤ 10m	1.00	0.70	2.59	1800	1500	1500
3&4	≤ 5m	1.00	0.64	2.36	1800	1550	1550

Pressures

STRAMIT® CORRUGATED CLADDING - SERVICEABILITY LIMIT STATE CAPACITY (CYCLONIC)							
pressure (kPa) at the spans (mm) shown							
BMT (mm)	*fasteners per sheet*	*span-type*	*Wall Cladding (Pan fixed)* 600	900	1200	1500	1800
0.42	5	internal	6.48	4.86	3.17	2.20	1.50
		equal	6.48	4.32	2.54	1.34	0.77
		double	6.48	4.32	2.54	1.50	0.89

STRAMIT® CORRUGATED CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)							
pressure (kPa) at the spans (mm) shown							
BMT (mm)	*fasteners per sheet*	*span-type*	*Wall Cladding (Pan fixed)* 600	900	1200	1500	1800
0.42	5	internal	6.48	4.86	4.19	3.58	2.97
		equal	6.48	4.32	3.78	2.70	1.62
		double	6.48	4.32	3.78	2.70	1.62

Note

- Tables are based on test program (Test Report No. TS509) carried out by James Cook University Cyclone Testing Station to meet the requirements of AS4040.3.
- For information on durability and other details and limitations please refer to the Stramit® Corrugated Roof & Wall Cladding product technical manual and Stramit® Cyclonic Areas Roof & Wall Cladding .
- Tabulated values may be interpolated but not extrapolated.
- For other values of 'h', spans can be determined using the limit state capacity tables on the right.

***Design Engineer's Certification**
Name : Y.Arguedas
Registration Number: 845724
Date: 3/12/2013
Signature:
registered as a structural engineer in **Australia*

***Certifying Engineer's Certification**
Name : Townes Chappell Mudgway P/L
Registration Number: 12611ES
Date: 3/12/2013
Signature:
***registered as a structural engineer in Northern Territory*

Product name

STRAMIT® CORRUGATED WALL CLADDING

Product Description

Stramit® Corrugated wall cladding is manufactured from G550 (for 0.42mm BMT product) colour coated steel or zinc-aluminium alloy coated (AZ150) steel. In some locations galvanised (Z450) steel may also be available.

Manufacturer's Name

Stramit Building Products
55 Albatross Street, Winnellie, NT 0820

Design Criteria

Spans are based on the combinations of the following factors, for Region C, in accordance with AS1170.2:2011 (inc. Amendment No.2)
Strength: Regional wind speed V_{500} = 69m/s
Serviceability: Regional wind speed V_{25} = 47m/s
Terrain / Height Multiplier ($M_{z,cat}$) as per Table 4.1 in AS 1170.2:2011

TC	'h' up to 5m	'h' up to 10m
1&2	1.05	1.12
2.5	0.87	0.92
3&4	0.83	0.83

Wind direction multiplier: M_d = 1.0
Shielding multiplier: M_s = 1.0
Topographic multiplier: M_t = 1.0
Dynamic response factor: C_{dyn} = 1.0
Internal pressure coefficient: $C_{p,i}$ = +0.2 service
Internal pressure coefficient: $C_{p,i}$ = +0.7 strength
External pressure coefficients :
$C_{p,e}$ = -0.65 for horizontal distance from windward edge '0 to 1*h*'
$C_{p,e}$ = -0.5 for horizontal distance from windward edge '1*h* to 2*h*'

TC - Terrain category, h - Average roof height, d - Building length or depth, b - Building width, local pressure factors as defined in AS1170.2

Limitations:

- This DTC sheet is for wall applications only. Data and fixings are valid for sheeting used either horizontally or vertically.
- End spans used in conjunction with tabulated internal spans should be 20% shorter.
- For Region C, suburban area, with shielding, the maximum overhang with a free edge is 100mm & a stiffened edge is 250mm.
- For Region C, suburban area, no shielding, the maximum overhang with a free edge is 100mm & a stiffened edge is 200mm.
- Cladding spans are based on the use of screws tested and specified on this data sheet for each support type and thickness.
- Sheeting span can be limited by maximum batten spacing when using cyclonic steel battens. For stud spacing upto 600mm, the spans in the tables are valid provided the following stud connection details are used
  For steel 0.75mm thick - 4 No 14 - 10 x 25mm Type 17 screws
  For steel > 0.75mm thick - 4 No 14 - 10 x 25mm screws
  For timber - 2 No 14 - 10 x 40mm (50mm-softwood) Type 17 screws

Accepted for Inclusion

DTCM ref: M/253
Chairman's Signature:
Chairman's Name: STEVEN J EHRLICH
Date of Approval: 24-10-13 Expiry Date: 24-10-18