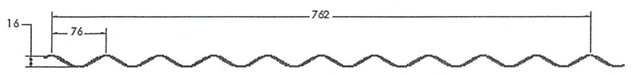
IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1) THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.

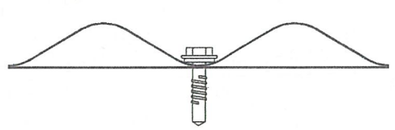
Profile



STRAMIT® CORRUGATED WALL RECOMMENDED FASTENINGS (CYCLONIC FIXING)	
STEEL ≥ 1.5mm thick	No 14 - 10 x 20mm Buildex® Hex Head Self-drilling and tapping screw + sealing washer
STEEL 0.75mm thick	No 14 - 10 x 20mm Buildex® Hex Head Type 17 screws + sealing washer
TIMBER	No 14 - 10 x 25mm Buildex® Hex Head Type 17 screws + sealing washer
SIDELAPS	No 8 - 15 x 15mm Buildex® Hex Head screws + sealing washer for spans exceeding 1200mm
All fastening screws should conform to AS3566.1:2002(R2015) with suitable corrosion protection such as a class 4 coating.	

Fastener locations

Valley fixing detail



Span tables

STRAMIT® 0.42mm CORRUGATED WALL CLADDING - MAXIMUM SPAN CHART (mm) Cp,e = -0.65 (0 to 1h) Cp,i = 0.7 (Strength)						
Valley fixed wall sheeting - four fasteners per sheet						
TC	h	local press. factor	pressure (kPa) strength	Spacing of Timber Battens / 0.75mm Cyclonic Steel Battens internal	equal	double
1&2	≤ 10m	1.00	4.84	900	800	800
		1.50	6.00	650	600	600
		2.00	7.17	-	-	-
1&2 2.5	≤ 5m ≤ 10m	1.00	4.25	1150	900	900
		1.50	5.28	750	700	700
		2.00	6.30	600	600	600
2.5 3&4	≤ 5m ≤ 10m	1.00	2.92	1800	1350	1350
		1.50	3.62	1400	1200	1200
		2.00	4.32	1100	850	850
3&4	≤ 5m	1.00	2.66	1800	1450	1450
		1.50	3.30	1550	1250	1250
		2.00	3.94	1250	1050	1050

STRAMIT® 0.42mm CORRUGATED WALL CLADDING - MAXIMUM SPAN CHART (mm) Cp,e = -0.5 (1h to 2h) Cp,i = 0.7 (Strength)						
Valley fixed wall sheeting - four fasteners per sheet						
TC	h	local press. factor	pressure (kPa) strength	Spacing of Timber Battens / 0.75mm Cyclonic Steel Battens internal	equal	double
1&2	≤ 10m	1.00	4.30	1100	900	900
1&2 2.5	≤ 5m ≤ 10m	1.00	3.78	1350	1200	1200
2.5 3&4	≤ 5m ≤ 10m	1.00	2.59	1800	1450	1450
3&4	≤ 5m	1.00	2.36	1800	1500	1500

Note : "-" indicates the pressures are higher than the maximum design values shown in the above right table, and should not be used within the span limits given.

Pressures

STRAMIT® CORRUGATED CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)							
pressure (kPa) at the spans (mm) shown							
BMT (mm)	*fasteners per sheet*	*span-type*	***Wall Cladding (Valley fixed)*** 600	900	1200	1500	1800
0.42	5	internal	6.48	4.86	4.19	3.46	2.97
		equal	6.48	4.32	3.78	2.48	1.62
		double	6.48	4.32	3.78	2.48	1.62

In the table above, end spans to be used with internal spans should be 20% less as given below:

internal (mm)	600	900	1200	1500	1800
end (mm)	500	750	1000	1250	1500

Note

- Tables are based on test program (Test Report No. TS509 Mar 1998 and TS717 Dec 2008) carried out by James Cook University Cyclone Testing Station to meet the requirements of AS4040.3:1992.
- 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 above right.

***Design Engineer's Certification**

Name : Y.Arguedas
Registration Number: 845724
Date: 10 MAY 2019
Signature:

registered as a structural engineer in **Australia*

***Certifying Engineer's Certification**

Name : Adam James
Registration Number: 26968ES
Date: 10/05/2019
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 Nos.1,2,3,4 & 5)
Strength: Regional wind speed V_R = 69m/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: $C_{p,i}$ = +0.7 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 batten to stud connection details are used:
  For steel 0.75mm thick - 4 No 14 - 10 x 25mm Buildex® Type 17 screws
  For steel > 0.75mm thick - 4 No 14 - 10 x 25mm Buildex® screws
  For timber - 4 No 14 - 10 x 40mm (50mm-softwood) Buildex® Type 17 screws

Accepted for Inclusion

DTCM ref: M/337/01

Chairman's Signature:

Chairman's Name: Paul Nowland

Date of Approval: 28/05/2019 Expiry Date: 28/05/2024