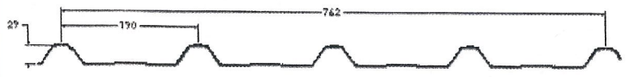
ACCEPTED FOR INCLUSION IN NT DEEMED TO COMPLY MANUAL BY THE NT BUILDING ADVISORY COMMITTEE

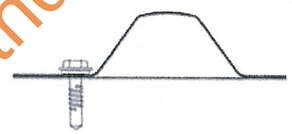
Profile



STRAMIT MONOCLAD® 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 LAPS	No 8 - 15 x 15mm Hex Head screw + sealing washer for spans exceeding 1200mm
All fastening screws should conform to AS3566- class 3 or above.	

Fastener locations

Pan fixing detail



Span tables

STRAMIT MONOCLAD® WALL CLADDING — MAXIMUM SPAN CHART (mm)
$C_{p,e}$ = -0.65 (0 to 1*h*) $C_{p,i}$ = 0.2 (Service), $C_{p,i}$ = 0.7 (Strength)
Pan fixed wall sheeting - four 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.[illegible]	3.86	850	800	800
		1.50	1.[illegible]	4.78	750	700	700
		2.00	2.49	5.71	600	600	600
1&2 2.5	≤ 5m ≤ 10m	1.00	1.24	3.48	1050	850	850
		1.50	1.72	4.32	800	750	750
		2.00	2.19	5.16	700	650	650
2.5 3&4	≤ 5m ≤ 10m	1.00	0.85	3.05	1350	1100	1100
		1.50	1.18	3.[illegible]	850	850	850
		2.00	1.50	4.[illegible]	750	750	750
3&4	≤ 5m	1.00	0.78	2.47	1800	1450	1450
		1.50	1.07	3.66	1350	1100	1100
		2.00	1.37	3.66	950	850	850

STRAMIT MONOCLAD® 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 - four 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	3.43	1050	850	850
1&2 2.5	≤ 5m ≤ 10m	1.00	1.02	3.09	1300	1100	1100
2.5 3&4	≤ 5m ≤ 10m	1.00	0.70	2.72	1650	1300	1300
3&4	≤ 5m	1.00	0.64	2.19	1800	1600	1600

Pressures

STRAMIT MONOCLAD® 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	4	internal	4.06	2.80	2.40	2.15	1.90
		equal	4.06	2.50	2.20	1.55	1.07
		double	4.06	2.50	2.20	1.55	1.13

STRAMIT MONOCLAD® 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	4	internal	5.94	3.78	3.24	2.90	2.57
		equal	5.94	3.38	2.97	2.43	1.89
		double	5.94	3.38	2.97	2.43	1.89

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 Monoclad® 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 : A. Stancombe
Registration Number: 490310
Date: 30/8/10
Signature: A Stancombe
registered as a structural engineer in **Australia*

***Certifying Engineer's Certification**
Name : Townes Chappell Mudgway P/L
Registration Number: 12611ES
Date: 30. Aug 2010
Signature:
**registered as a structural engineer in Northern Territory*

Product name

STRAMIT MONOCLAD® WALL CLADDING

Product Description

Stramit Monoclad® 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.

Design Criteria

Spans are based on the combinations of the following factors, for Region C, in accordance with AS1170.2:-
Strength: Regional wind speed V_{500} = 69m/s
Serviceability: Regional wind speed V_{25} = 47m/s
Terrain / Height Multiplier ($M_{z,cat}$) :

TC	'h' up to 5m		'h' up to 10m	
	serviceability	strength	serviceability	strength
1&2	1.05	0.95	1.12	1.00
2.5	0.87	0.88	0.92	0.95
3&4	0.83	0.80	0.83	0.89

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.
- Internal spans should have both end spans 20% shorter than the tabulated values.
- 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 50mm & 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/249/91
Chairman's Signature:
Chairman's Name: STEVEN J EHRLICH
Date of Approval: 23.9.2010 Expiry Date: 23.9.~~2013~~

New Expiry Date 23/3/14
Signature