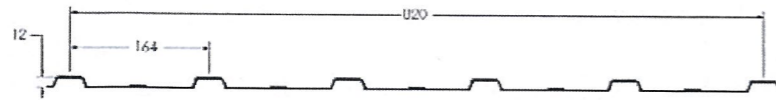


Profile



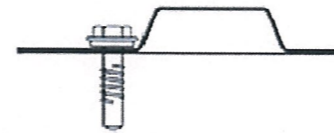
STRAMIT LO-CLAD™ WALL RECOMMENDED FASTENINGS (CYCLONIC FIXING)	
STEEL 0.75mm thick	No 14 - 10 x 20mm Hex Head Type 17 screws + sealing washer
STEEL 0.42mm thick	No 14 - 10 x 20mm Hex Head Self-drilling and tapping screw + sealing washer
TIMBER	No 14 - 10 x 25mm Hex Head type 17 screws + sealing washer
WIDE 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 LO-CLAD™ WALL CLADDING							
MAXIMUM SPAN CHART (mm)							
Pan fixed wall sheeting - five fasteners per sheet.							
TC	h	local press. factor	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	3.86	1050	1000	900
		1.5	1.95	4.78	900	850	800
		2.0	2.49	5.71	800	750	700
1&2 2.5	≤ 5m	1.0	1.24	3.48	1100	1050	950
		1.5	1.72	4.32	1000	900	850
		2.0	2.19	5.16	850	800	750
2.5 3&4	≤ 5m	1.0	0.85	3.25	1200	1150	1050
		1.5	1.18	3.79	1050	1000	900
		2.0	1.50	4.53	950	900	800
3&4	≤ 5m	1.0	0.78	2.47	1350	1300	1150
		1.5	1.07	3.06	1200	1150	1050
		2.0	1.37	3.66	1100	1050	950

Pressures

STRAMIT LO-CLAD™ CLADDING - SERVICEABILITY LIMIT STATE CAPACITY (CYCLONIC)							
pressure (kPa) at the spans (mm) shown							
BMT (mm)	fasteners per sheet	span-type	Wall Cladding (Pan fixed)				
			450	600	900	1200	1350
0.42	5	internal	6.36	6.36	3.03	1.82	1.53
		equal	6.36	6.36	3.03	1.82	1.53
		double	6.58	6.58	3.14	1.88	1.58

STRAMIT LO-CLAD™ CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)							
pressure (kPa) at the spans (mm) shown							
BMT (mm)	fasteners per sheet	span-type	Wall Cladding (Pan fixed)				
			450	600	900	1200	1350
0.42	5	internal	9.79	8.78	4.98	3.06	2.70
		equal	8.90	7.98	4.53	2.78	2.45
		double	7.83	7.02	3.98	2.45	2.16

STRAMIT LO-CLAD™ WALL CLADDING							
MAXIMUM SPAN CHART (mm)							
Pan fixed wall sheeting - five fasteners per sheet.							
TC	h	local press. factor	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	1.16	3.43	1100	1050	1000
1&2 2.5	≤ 5m ≤ 10m	1.0	1.02	3.09	1150	1100	1050
2.5 3&4	≤ 5m ≤ 10m	1.0	0.70	2.72	1300	1200	1100
3&4	≤ 5m	1.0	0.64	2.19	1350	1350	1300

Note

- Tables are based on test program (Test Report No. TS481) 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 Wall Sheeting & Cladding Northern Region product technical manual.
- 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: *[Signature]*
 **registered as a structural engineer in Northern Territory

Product name
STRAMIT LO-CLAD™ WALL CLADDING

Product Description
 Stramit Lo-Clad™ wall cladding is manufactured from G550 (for 0.42mm BMT product) colour coated steel or zinc-aluminium alloy coated (AZ150) steel.

Design Criteria
 Spans are based on the combinations of the following factors, for Region C, in accordance with AS1170.2:-
 Strength: Regional wind speed $V_{500} = 69\text{m/s}$
 Serviceability: Regional wind speed $V_{25} = 47\text{m/s}$
 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 1h'
 $C_{p,e} = -0.5$ for horizontal distance from windward edge '1h to 2h'

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 50mm & a stiffened edge is 100mm.
- For Region C, suburban area, no shielding, the maximum overhang with a free edge is 50mm & a stiffened edge is 100mm.
- 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/24/1001
 Chairman's Signature: *[Signature]*
 Chairman's Name: STEVEN J BURRICH
 Date of Approval: 23.9.2010
 Expiry Date: 23.9.2013

New Expiry Date: 25/3/14
 Signature: *[Signature]*