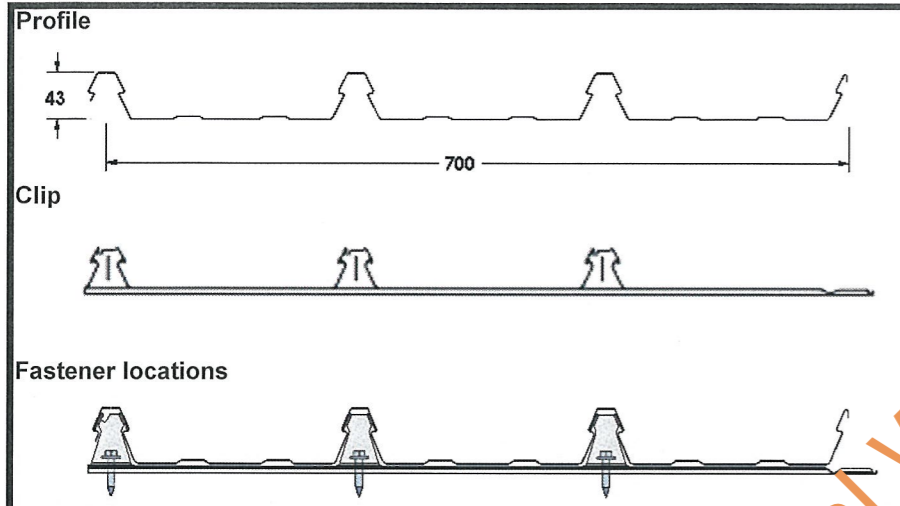
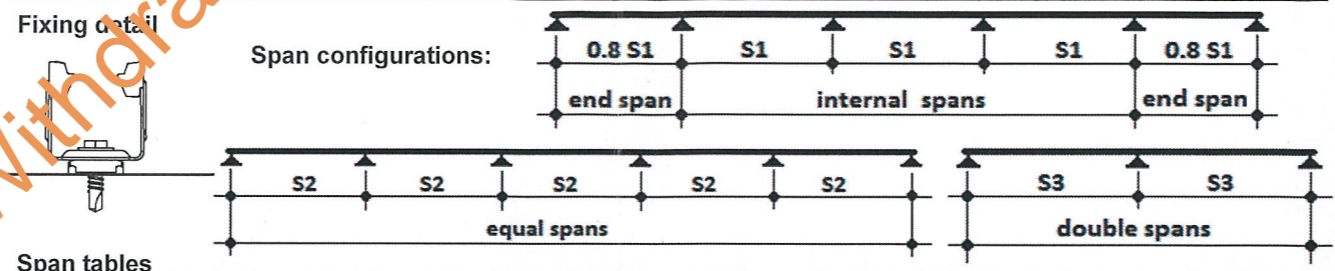


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.



STRAMIT SPEED DECK ULTRA® RECOMMENDED FASTENINGS	
CLIP	Stramit Speed Deck Ultra® clip
STEEL 0.75mm thick	No 14-10 x 25mm Hex Head Type 17 screw + sealing washer
STEEL ≥ 1.5mm thick	No 12 x 30mm Hex Head screw + sealing washer
HARDWOOD (F7/F8/12/14/20 or stronger)	No 12 x 50mm Hex Head Type 17 screw + sealing washer
SOFTWOOD (F7/F8/12/14/20 or stronger)	No 14 - 10 x 75mm Hex Head Type 17 screw + sealing washer
All fastening screws should conform to AS3566- class 3 or above.	



Product name
STRAMIT SPEED DECK ULTRA® Roofing

Product Description
Stramit Speed Deck Ultra® roof cladding is manufactured from 0.42 & 0.48mm BMT G550 colour coated steel or zinc-aluminium /zinc-aluminium-magnesium alloy coated steel.

Manufacturer's Name
Stramit Building Products
55 Albatros Street, Winnelie, 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 No2)
Strength: Regional wind speed $V_{500} = 69\text{m/s}$
Serviceability: Regional wind speed $V_{25} = 47\text{m/s}$
Terrain / Height Multiplier ($M_{z,cat}$): as per table 4.1 in AS1170.2:2011

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: $C_{dyn} = 1.0$
Combination factor: $K_c = 0.9$
Internal pressure coefficient: $C_{p,i} = +0.2$ service strength
Internal pressure coefficient: $C_{p,i} = +0.7$ strength
External pressure coefficients:
 $C_{p,e} = -0.9$ for $h/d \leq 0.5$, and for horizontal distance from windward edge of the roof up to 'h'
 $C_{p,e} = -1.3$ for $h/d \geq 1.0$, and for horizontal distance from windward edge of the roof up to '0.5h'

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

Test factor $k_t = 1.21$ in accordance with Table B1 of AS1170.0.

Limitations:
- INTERNAL SPANS SHALL HAVE BOTH END SPANS 20% SHORTER THAN THE TABULATED VALUES

- This DTC sheet is for roof applications only. Leading and trailing roof edges must be fixed to supports and flashed over, for further details see Speed Deck Ultra Installation Procedure leaflet on Stramit website: www.Stramit.com.au

- Foot traffic limitations as indicated.
- The maximum roof pitch is: 25°
- For Region C, suburban area, with shielding, the maximum overhang for 0.42 BMT with a free edge is 150mm & a stiffened edge is 450mm. The maximum overhang for 0.48 BMT with a free edge is 200mm & a stiffened edge is 450mm.

- For Region C, suburban area, no shielding, the maximum overhang for 0.42 BMT with a free edge is 100mm & a stiffened edge is 250mm. The maximum overhang for 0.48 BMT with a free edge is 150mm & a stiffened edge is 350mm

- Sheetting span can be limited by maximum batten spacing when using cyclonic steel battens. See Drawing No M/652/01 for information on Stramit Cyclonic Roof Battens.

Accepted for Inclusion

DTCM ref:

Chairman's Signature:
Chairman's Name: **STEVEN J PURLICH**
Date of Approval: 16-1-2015
Expiry Date: 16-1-2020

STRAMIT SPEED DECK ULTRA® CLADDING - SERVICEABILITY LIMIT STATE CAPACITY (CYCLONIC)

pressure (kPa) at the spans (mm) shown

BMT (mm)	fasteners per sheet	span type	Roof Sheeting (Clip fixed)					
			450	600	900	1200	1500	1800
0.42	1 clip & 3 screws	internal	3.23	3.09	2.91	2.53	2.24	1.96
		equal	3.44	3.25	2.86	2.47	2.08	1.68
		double	2.69	2.57	2.33	2.08	1.84	1.60
0.48	1 clip & 3 screws	internal	3.59	3.43	3.12	2.80	2.49	2.18
		equal	3.82	3.60	3.17	2.74	2.30	1.87
		double	2.98	2.85	2.58	2.31	2.04	1.78

STRAMIT SPEED DECK ULTRA® CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)

pressure (kPa) at the spans (mm) shown

BMT (mm)	fasteners per sheet	span type	Roof Sheeting (Clip fixed)					
			450	600	900	1200	1500	1800
0.42	1 clip & 3 screws	internal	10.69	9.11	7.52	5.76	4.43	2.98
		equal	9.72	8.28	6.84	5.24	4.03	2.71
		double	8.55	7.29	6.02	4.61	3.55	2.38
0.48	1 clip & 3 screws	internal	10.69	9.50	7.92	5.54	4.25	3.36
		equal	9.72	8.64	7.20	5.04	3.87	3.05
		double	8.55	7.60	6.34	4.44	3.40	2.68

STRAMIT SPEED DECK ULTRA® CLADDING - STRENGTH LIMIT STATE CAPACITY (CYCLONIC)

pressure (kPa) at the spans (mm) shown

BMT (mm)	fasteners per sheet	span type	Roof Sheeting (Clip fixed)					
			450	600	900	1200	1500	1800
0.42	1 clip & 3 screws	internal	9.71	7.29	4.86	3.64	2.91	2.43
		equal	8.83	6.62	4.42	3.31	2.65	2.21
		double	7.77	5.83	3.89	2.91	2.33	1.94
0.48	1 clip & 3 screws	internal	9.71	7.29	4.86	3.64	2.91	2.43
		equal	8.83	6.62	4.42	3.31	2.65	2.21
		double	7.77	5.83	3.89	2.91	2.33	1.94

note: Shaded areas are not foot trafficable when tested in accordance with AS1562 and AS4040 parts 0 and 1.

STRAMIT SPEED DECK ULTRA® CLADDING MAXIMUM SPAN CHART (mm) $C_{p,e} = -0.9$ ($h/d \leq 0.5$)

Concealed fixed roof sheeting - 1 Clip & three fasteners per sheet

TC	h	local press. factor	pressure (kPa) strength	Timber Batten/Steel 1.5mm						0.75mm Cyclonic Steel Battens					
				0.42mm thick (bmt)			0.48mm thick (bmt)			0.42mm thick (bmt)			0.48mm thick (bmt)		
				internal	equal	double	internal	equal	double	internal	equal	double	internal	equal	double
1&2	≤ 10m	1.0	5.16	1300	1200	1050	1250	1150	1050	850	750	700	850	750	700
		1.5	6.61	1050	900	750	1050	950	800	650	600	500	650	600	500
		2.0	8.06	700	600	-	850	700	-	550	500	-	550	500	-
		3.0	10.97	-	-	-	-	-	-	-	-	-	-	-	-
1&2	≤ 5m	1.0	4.54	1450	1350	1200	1400	1300	1150	950	850	750	950	850	800
		1.5	5.81	1150	1050	900	1150	1050	950	750	700	600	750	700	600
		2.0	7.09	950	800	500	1000	900	700	600	550	500	600	550	500
		3.0	9.64	-	-	-	-	450	-	-	-	-	-	-	-
2.5	≤ 10m	1.0	3.11	1750	1700	1600	1800	1750	1600	1400	1250	1100	1400	1250	1100
		1.5	3.99	1550	1500	1350	1550	1450	1300	1100	1000	850	1100	1000	850
		2.0	4.87	1400	1250	1100	1350	1200	1100	850	800	700	850	800	700
		3.0	6.62	1050	900	500	1050	950	800	650	600	500	650	600	500
3&4	≤ 5m	1.0	2.83	1800	1750	1650	1800	1800	1700	1500	1400	1200	1550	1400	1200
		1.5	3.63	1650	1550	1450	1700	1550	1400	1200	1100	950	1200	1100	950
		2.0	4.43	1500	1400	1250	1450	1350	1200	1100	850	800	1100	850	800
		3.0	6.02	1150	1050	800	1100	1050	950	750	650	550	750	650	550

STRAMIT SPEED DECK ULTRA® CLADDING MAXIMUM SPAN CHART (mm) $C_{p,e} = -1.3$ ($h/d \geq 1.0$)

Concealed fixed roof sheeting - 1 Clip & three fasteners per sheet

TC	h	local press. factor	pressure (kPa) strength	Timber Batten/Steel 1.5mm						0.75mm Cyclonic Steel Battens					
				0.42mm thick (bmt)			0.48mm thick (bmt)			0.42mm			0.48mm		
				internal	equal	double	internal	equal	double	internal	equal	double	internal	equal	double
1&2	≤ 10m	1.0	6.45	1050	950	750	1050	1000	850	700	600	550	700	600	550
		1.5	8.55	450	550	-	750	600	-	450	450	-	500	450	-
		2.0	10.64	-	-	-	-	-	-	-	-	-	-	-	-
		3.0	11.93	-	-	-	-	-	-	-	-	-	-	-	-
1&2	≤ 5m	1.0	5.67	1200	1100	950	1150	1100	1000	800	700	600	800	700	600
		1.5	7.51	850	750	-	950	800	600	550	500	-	550	500	450
		2.0	9.35	-	-	-	-	500	-	-	-	-	-	-	-
		3.0	10.49	-	-	-	-	-	-	-	-	-	-	-	-
2.5	≤ 10m	1.0	3.89	1600	1500	1400	1600	1450	1350	1100	1000	900	1100	1000	900
		1.5	5.16	1300	1200	1050	1250	1150	1050	850	750	700	850	750	700
		2.0	6.42	1050	950	650	1050	1000	850	700	600	550	700	600	550
		3.0	7.20	800	800	-	950	900	550	600	550	-	600	550	450
3&4	≤ 5m	1.0	3.54	1650	1600	1500	1700	1600	1450	1200	1100	1000	1200	1100	1000
		1.5	4.69	1400	1300	1150	1350	1250	1150	900	850	750	900	850	750
		2.0	5.85	1150	1050	900	1150	1050	950	750	700	550	750	700	550
		3.0	6.55	1050	950	500	1050	950	800	650	600	500	650	600	500

Notes covering basis of DTC (Relevant test reports etc)
- Tables are based on an extensive LHL test program carried out by ENGTEST (Test Report No C100203) at the University of Adelaide and by James Cook University Cyclone Testing Station (Test Report No. TS717) in accordance with BCA 2009.
- For information on durability, slope and other details and limitations please refer to the Stramit Speed Deck Ultra® Product Technical Manual and the Stramit® Roof Slope Guide.
- 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 left.

***Checking Engineer's Certification**
Name: Y. Arguedas
Registration Number: 845724
Date: 15/DEC/2014
Signature:
*registered as a structural engineer in Australia

***Certifying Engineer's Certification**
Name: Townes Chappell Mudgway P/L
NT Registration Number: 12611ES
Date: 21 Dec 2014
Signature:
*registered as a structural engineer in Northern Territory