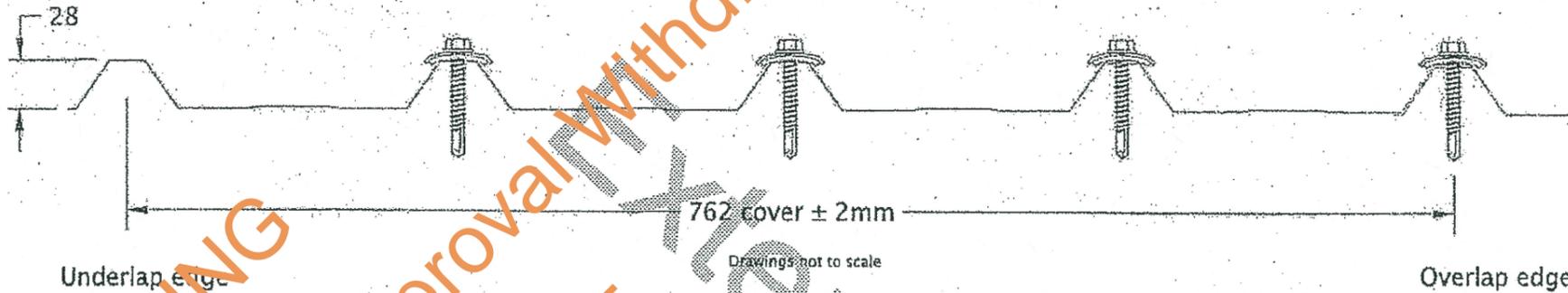




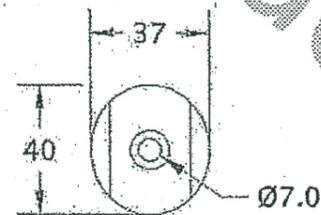
**SUPERDEK® ROOF CLADDING WITH CYCLONIC WASHERS**



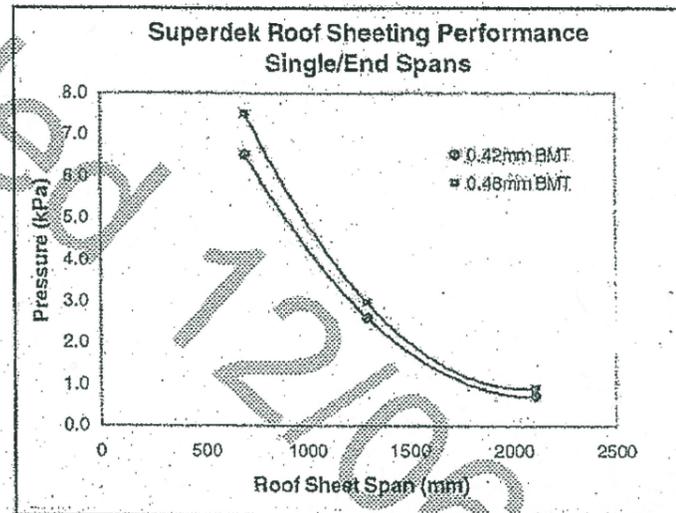
**Fastener Details**

Steel	0.75 - 4.0mm	Minimum 13 gauge x 50mm hex head screw with cyclonic washer assembly
Timber	Hardwood (F1)	Minimum 17 gauge hex head screw embedded at least 35mm into timber
	Softwood (F5)	Minimum 13 gauge hex head screw embedded at least 35mm into timber

NB: For spans > 900mm side lap fixing midspan using an 8 x 12mm self drilling screw or 3.2mm blind rivet is recommended. This provides a weather proof seal and secures the overlap if the roof is occasionally traversed.



1.0mm Cyclone Washer



**Design Pressures Pz (kPa)**

Span (mm)	0.42mm BMT			0.48mm BMT		
	Single	End	Internal	Single	End	Internal
700	6.51	6.51	7.12	7.50	7.50	8.20
1000	4.29	4.29	4.69	4.90	4.90	5.36
1300	2.60	2.60	2.84	2.95	2.95	3.23
1600	1.44	1.44	1.58	1.64	1.64	1.80
1900	0.82	0.82	0.90	0.98	0.98	1.07
2100	0.70	0.70	0.77	0.90	0.90	0.98

**Maximum Allowable Spans (mm)**

Terrain Category	KI	5m Building Height									10m Building Height					
		Pz (kPa)	0.42mm BMT			0.48mm BMT			Pz (kPa)	0.42mm BMT			0.48mm BMT			
			Single	End	Internal	Single	End	Internal		Single	End	Internal	Single	End	Internal	
1 & 2	1	4.15	1010	1010	1070	1100	1100	1150	4.61	950	950	1010	1030	1030	1090	
	1.5	5.33	850	850	910	940	940	1000	5.91	770	770	840	870	870	930	
2.5	1	3.53	1120	1120	1170	1190	1190	1250	4.12	1020	1020	1080	1100	1100	1160	
	1.5	4.52	960	960	1020	1050	1050	1100	5.28	850	850	920	950	950	1010	
3 & 4	1	2.95	1150	1220	1270	1290	1290	1340	3.65	1100	1100	1150	1180	1180	1230	
	1.5	3.78	1080	1080	1130	1160	1160	1210	4.68	940	940	1000	1020	1020	1080	
	2	4.61	950	950	1010	1030	1030	1090	5.71	800	800	860	890	890	950	

Product Name

Superdek

Product Description

0.42mm and 0.48mm BMT ASI397/G550 AZ150

Manufacturer's Name

Stratco (Australia) Pty Limited

Design Criteria

The following criteria was used in the development of the tables:

1. Region C with a design return period of 500 years.
2.  $V_w = F_v 66m/s$  (limit state), with  $F_c = 1.05$
3.  $M_x/M_y/M_z = 1.00$

Height (m)	Terrain/height Multiplier (Mz,ei)		
	1&2	2.5	3&4
<=5	0.95	0.88	0.80
<=10	1.00	0.95	0.89

Pressure Coefficients:  
Internal Cpi = +0.7  
External Cpe = -0.9

Limitations

1. Design pressures and maximum allowable spans are based on all crests being fastened to supports.
2. For design criteria where  $h/d \Rightarrow 1$  (Table 5.3(A)) and roof pitch  $\leq 10^\circ$  reduce batten spacing by 30%.
3. When fixing over insulation, screw length should be increased to ensure sufficient penetration of the fastener.
4. When fixing to Stratco Cyclonic Roof Battens, roofing spans may be limited by the allowable batten spacing. Refer to the Stratco Cyclonic Roof Batten DTC sheet.
5. Maximum allowable overhang is 200mm for roof cladding.
6. For elevated buildings that allow flow under, the internal pressure coefficient increases to +0.8, maximum allowable spans are to be reduced by 50mm.

Accepted for Inclusion

DTCM ref: M/116/03A (tested to L.H.L)

Chairman's Signature:

Chairman's Name:

PETER RUSSELL

Date of Approval:

11/6/09

Expiry Date:

11/6/12

1. Building Code of Australia (BCA) - Low-High-Low Pressure Testing
2. Design Criteria are determined in accordance with AS/NZS1170.2 2002 Wind Actions
3. Cyclonic Testing of Superdek Roof Sheeting, Report No. 70, 10/2008

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\*\*Design Engineers Certification

Name: Trevor John  
Registration Number: 106278  
Date: 15/05/09  
Signature:

\*\*registered as a structural engineer in Australia

\*\*Certifying Engineers Certification

Name: John Roeger  
NT Registration Number: 18940ES  
Date: 10-05-09  
Signature:

\*\*registered as a structural engineer in Northern Territory

New Expiry: 12/12/15  
Signature: