

SPEED DECK ULTRA - SPAN TABLES				BUILDINGS UP TO 5m HIGH				
h/d	TERRAIN CATEGORY	ROOF AREA	PRESSURE (kPa)	MAXIMUM SPANS (mm)			MAX. OVERHANG (mm)	
				Double	Equal (Min 3 spans)	Internal (End)	Stiffened*	Unstiffened*
≤ 0.5	1 & 2	D	2.99	1300	1300	1500(1300)	200	175
		F	3.78	1150	1250	1400(1150)	200	125
		G	4.57	950	1050	1150(950)	200	100
	2.5	D	2.54	1300	1300	1500(1300)	200	200
		F	3.21	1300	1300	1500(1300)	200	150
		G	3.88	1100	1250	1400(1150)	200	125
≥ 1.0	1 & 2	D	3.69	1150	1300	1450(1200)	200	125
		F	4.84	900	950	1050(850)	200	100
		G	4.93	850	950	1050(850)	200	100
	2.5	D	3.13	1300	1300	1500(1300)	200	175
		F	4.10	1050	1150	1300(1050)	200	125
		G	4.18	1050	1150	1250(1000)	200	125

SPEED DECK ULTRA - SPAN TABLES				BUILDINGS UP TO 10m HIGH				
h/d	TERRAIN CATEGORY	ROOF AREA	PRESSURE (kPa)	MAXIMUM SPANS (mm)			MAX. OVERHANG (mm)	
				Double	Equal (Min 3 spans)	Internal (End)	Stiffened*	Unstiffened*
≤ 0.5	1 & 2	D	3.37	1300	1300	1500(1300)	200	150
		F	4.19	1050	1150	1250(1000)	200	125
		G	5.07	850	950	1000(800)	200	100
	2.5	D	2.96	1300	1300	1500(1300)	200	175
		F	3.74	1150	1250	1400(1150)	200	125
		G	4.53	950	1050	1150(950)	200	100
≥ 1.0	1 & 2	D	4.09	1150	1150	1300(1050)	200	125
		F	5.38	800	900	950(750)	200	100
		G	5.46	800	850	950(750)	200	100
	2.5	D	3.66	1200	1300	1450(1200)	200	150
		F	4.79	900	1000	1100(900)	200	100
		G	4.37	900	950	1050(850)	200	100

* Unstiffened/stiffened refers to whether or not the edge of the sheeting has been stiffened by a gutter system or similar. Minimum overhang is 50mm but 100mm is desirable. Some spans have been limited by trafficability requirements.

DESIGN INFORMATION

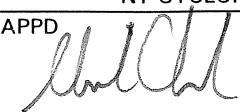

Working pressures have been calculated in accordance with AS1170.2 - 1989. Spans are based on the following combinations of factors:

Basic wind speed (Vp) = 57 m/s
 Terrain Category multiplier
 T.C. 1 & 2 up to 5 m (Mz,cat) 0.95
 T.C. 2.5 up to 5 m (Mz,cat) 0.88
 T.C. 1 & 2 up to 10 m (Mz,cat) 1.00
 T.C. 2.5 up to 10 m (Mz,cat) 0.95
 Multipliers for shielding, topography and importance 1.00
 External pressure coefficient (Cp,e)
 For buildings with h/d ≤ 0.5 -0.9
 For buildings with h/d ≥ 1.0 -1.3
 Local pressure factors (Kt) = 2.0 or 1.5 or 1.0
 Internal pressure coefficient (Cp,i) + 0.8

Roof area G refers to any part of the roof within 0.5a of the edge (and ridge for roof slopes greater than 10°). Roof area F refers to any part of the roof within 1.0a of the edge (and ridge for slopes greater than 10°). Roof area D refers to roof areas other than F or G. The value of a is the least value of 0.2 building width, 0.2 building depth or building ridge height.

h can be taken as the height to the ridge and d the minimum width of the building. For a precise definition of h and d see Clause 3.4.3 of AS1170.2 - 1989.

APPROVED FOR INCLUSION IN THE NT DEEMED TO COMPLY BY BAC  DATE 17/5/96

STRAMIT INDUSTRIES 55 Albatross Street, WINNELLIE NT. 0820 Ph. (089) 47 0780	FIXING OF SPEED DECK ULTRA ROOFING IN NT CYCLONIC AREAS	
	DESIGN DATA SHEET	
COLLESS & O'NEILL PTY LTD CONSULTING CIVIL & STRUCTURAL ENGINEERS 84 Woods Street, Darwin, N.T. 0800 Ph. (089) 81 9644 ACN 009 622 968	NT CYCLONIC AREAS APPD 	DRG No. DATE 3-5-96
	M/125/2	
CERTIFIED  DATE 4-6-96		