LONGSPAN - SPAN TABLES

LONGSPAN 0.42 BMT (0.47 TCT) - Cyclone Caps 4 per sheet					BUILDINGS UP TO 5m HIGH	
TERRAIN CATEGORY	ROOF AREA	PRESSURE kPa	MAXIMUM SPANS (mm)		MAXIMUM OVERHANG (mm)	
			Equal Continuous	Reduced End Continuous	Stiffened*	Unstiffened*
CAT 1 & 2	D	3.34	1250	1400/1100	300	150
	F	4.49	1050	1200/1000	250	125
	G	5.63	900	1000/800	200	100
CAT 2½	D	2.83	1400	1500/1200	325	150
	F	3.80	1150	1300/1050	275	125
	G	4.77	1000	1150/900	225	100

LONGSPAN 0.42 BMT (0.47 TCT) - Cyclone Caps 4 per sheet					BUILDINGS UP TO 10m HIGH	
TERRAIN CATEGORY	ROOF AREA	PRESSURE kPa	MAXIMUM SPANS (mm)		MAXIMUM OVERHANG (mm)	
			Equal Continuous	Reduced End Continuous	Stiffened*	Unstiffened*
CAT 1 & 2	D	3.71	1150	1350/1100	300	150
	F	4.97	950	1100/900	225	100
	G	6.24	800	850/700	175	100
CAT 2½	D	3.31	1250	1400/1100	300	150
	F	4.40	1050	1200/950	250	125
	G	5.57	900	1000/800	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.

GENERAL NOTES

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

- Basic Wind Speed (V_p) = 57 m/s
- Terrain Category Multiplier
- T.C. 1&2 up to 5m($M_{z,cat}$) = 0.95
- T.C.2½ up to 5m ($M_{z,cat}$) = 0.88
- T.C. 1&2 up to 10m($M_{z,cat}$) = 1.00
- T.C. 2½ up to 10m ($M_{z,cat}$) = 0.95
- Multipliers for shielding, topography and importance = 1.00
- External Pressure Coefficient ($C_{p,e}$) = -1.3
- Local Pressure Factors (K_1) = 2.0 or 1.5 or 1.0
- Internal Pressure Coefficient (Cp,i) = +0.6

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. Where a is the least value of 0.2 building width, 0.2 building depth or building ridge height.

MANUFACTURER:
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FIXING OF
LONGSPAN 0.47 mm
IN THE DARWIN AREA

DESIGN DATA SHEET

CERTIFIED: M I E Aust.
DATE: 29-2-94

NORTHERN TERRITORY
DEPARTMENT OF LANDS AND HOUSING
APPROVED:
DATE: 9-3-94

DRAWING NO.
M/109/12