

PANELDEK 200 - SPAN TABLES

PANELDEK 200 0.55 bmt (0.60 tct)			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	1375	1550/1250	350	100
	F	4.49	1050	1200/750	275	75
	G	5.63	850	900/750	200	50
CAT 2 1/2	D	2.83	1475	1675/1350	375	125
	F	3.80	1250	1425/1150	300	100
	G	4.77	975	1150/925	250	75

PANELDEK 200 0.55 bmt (0.60 tct)			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	3.31	1275	1450/1150	325	100
	F	4.97	950	1100/875	250	50
	G	6.24	775	850/675	175	50
CAT 2 1/2	D	3.31	1375	1550/1250	350	100
	F	4.40	1050	1225/975	275	75
	G	5.57	850	975/775	200	50

* 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. 2 1/2 up to 5m ($M_{z,cat}$) = 0.88

T.C. 1&2 up to 10m ($M_{z,cat}$) = 1.00

T.C. 2 1/2 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 ($C_{p,i}$) = +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.

LIMITATIONS:

1. An allowable load per fixing of 0.89kN when fixed in accordance with the Paneldek 200 fixing instructions.
2. A deflection limit of L/90 at working load as per the working load test of 1562-1980 "Design & Installation of Metal Roofing".

MANUFACTURER:

STRAMIT INDUSTRIES

74 McMINN STREET
DARWIN, NT 0800

PHONE No. (089) 81 2219

FIXING OF

PANELDEK 200

IN THE DARWIN AREA

DESIGN DATA SHEET

CERTIFIED:

M. J. E. (Aust)
195063

DATE:

30/3/92

NORTHERN TERRITORY

DEPARTMENT OF LANDS AND HOUSING

APPROVED:

DATE:

Ray Col...
29/5/92

DRAWING No

M/103/2