

APPENDIX B

LOAD CALCULATIONS FOR CYCLONIC AREAS

DESIGN LOADS

Dead Load decking 0.042 kPa
 Live Load point load on decking 1.1 kN
 UDL (1.8/A + 0.12) \leq 0.25 kPa

WIND LOADS

Design return period 50 yrs.
 Cyclone multiplier 1.15
 Basic wind velocity 55 m/sec

Terrain Category	T.C.Factor for buildings of height up to 10 metres.	Dynamic Pressure (kPa)
1.	1.09	2.85
2.	1.00	2.40
2 1/2	0.85	1.73

Internal Pressure Coefficient + 0.8
 External pressure Coefficient - 0.9

Local Pressure Factors:

(a) Case 1 1.5
 (b) Case 2 2.0

DESIGN WIND PRESSURE - (for Buildings of 5m - 10m in height.)

Terrain Categories	General Areas	Case 1	Case 2
1	4.85	6.13	7.41
2	4.08	5.16	6.24
2 1/2	2.94	3.72	4.50