

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 5 metres.	Dynamic Pressure (kPa)
1	1.02	2.5
2	0.93	2.08
2 1/2	0.79	1.5

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 up to 5m in height)

Terrain Categories	General Areas	Case 1	Case 2
1	4.25	5.38	6.5
2	3.54	4.47	5.41
2 1/2	2.55	3.22	3.9