



**SHEETING PROFILE** FOR CLASS 10 STRUCTURES ONLY

**MATERIAL SPECIFICATION**

0.3mm B.M.T. HIGH TENSILE GALVANIZED STEEL TO AS1397 - G550 - AZ150; 0.35mm T.C.T.

**DESIGN PARAMETERS**

TESTING WAS CARRIED OUT BY THE 'CYCLONE STRUCTURAL TESTING STATION' AT 'JAMES COOK UNIVERSITY', TOWNSVILLE.

WIND LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH AS1170.2 - '1989 "S.A.A. LOADING CODE PART 2 - WIND LOADS"'.  
 THE DESIGN PRESSURE WAS BASED ON TERRAIN CATEGORY 2, REGION C, GIVING A  $q_z$  OF 1.58kPa. INTERNAL PRESSURE COEFFICIENTS OF 0.6 AND EXTERNAL SUCTION COEFFICIENTS OF 1.0 FOR THE ROOF AND 0.65 FOR THE WALL WERE APPLIED.

SHEETING WAS SUBJECTED TO A FATIGUE TEST AS DESCRIBED IN THE "DARWIN AREA BUILDING MANUAL". THE TEST CONSISTED OF 10000 CYCLES OF ZERO TO DESIGN LOAD, FOLLOWED BY A STATIC OVERLOAD OF 1.8 TIMES THE DESIGN LOAD.

**RECOMMENDED FIXING**

FIX EACH PAN TO EACH SUPPORT WITH 2 No. 16mm x 10 GAUGE HEX HEAD TEK SCREWS.

IN ADDITION FIX RIBLAPS WITH 1 No. CLIP NUT AND SCREW AT ENDS OF SHEET.

ALL TEK SCREWS TO BE FITTED WITH BUILDEX DEKBOND 16mm x 0.9mm ALUMINIUM/E.P.D.M. BONDED WASHER OR EQUIVALENT.

**WIND LOAD FACTORS**

Ms	1.00
Mt	1.00
Mi	1.00
Kp	1.00
Ka	1.00

**SPANS AND DESIGN PRESSURES**

SPAN	DESIGN PRESSURE
500	2.53 kPa
600	1.97 kPa

DESIGN ENGINEER  
**DES NEWPORT CONSULTING ENGINEERS Pty.Ltd.**  
 38 HARTLEY STREET, SPRING HILL QLD 4000  
 Ph (07) 832 1836 Fax (07) 832 5364  
 CERTIFIED on the 9/3/94  
  
 D.B. NEWPORT M.I.E. (AUST)  
 REG. No. NEEP 3080

**0.35mm METAL ROOF & WALL SHEETING**



DESIGN DATA SHEET  
 DARWIN CYCLONE AREA

NORTHERN TERRITORY  
 CYCLONIC AREAS  
 APPROVED

TESTED BY  
**CYCLONE TESTING STATION**  
 DEPARTMENT OF CIVIL AND SYSTEMS ENGINEERING  
 JAMES COOK UNIVERSITY, TOWNSVILLE QLD 4811

GARDEN SHEDS CARPORTS GARAGES  
 40 MARBLE DRIVE, KINGSTON QLD 4114  
 Ph (07) 208 4999 Fax (07) 808 5685

DATE 26.7.94

DWG. NO. M/124/1