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AUSTRALIAN PORTABLE CAMPS WALL PANEL TESTS

The Australian Government Comcare requires: “Every accommodation unit or donga and every transportable building on worksites and camps in cyclone sensitive regions should be adequately secured and anchored. Employers should seek engineering advice on the construction standards applicable to each wind region. This advice will ensure accommodation units or dongas, transportable buildings and cyclone shelters in cyclone sensitive regions are adequately designed and constructed in accordance with the Design Guidelines for Australian Public Cyclone Shelters, published by Queensland Public Works for Emergency Management Australia, and Australian/New Zealand Standard AS/NZS 1170.2:2002.



Three tests are conducted to test an Australian Portable Camp - Wall Panel. The tests are:



Simulated Debris Impact Test: The test requires an impact of an Impact Missile mass 15.3kg 100 mm x 50 mm cross-section of hardwood with attached steel plates into the wall panel from 5.3m.



Static Wind Pressure Test: The test requires a wall specimen to be placed horizontally onto the hard surface and supported with a frame high enough to prevent the wall to get in contact with the surface during the testing.



Spherical Steel Balls Test: In the Australian cyclone region C the wall has to be capable of resisting wind debris defines as 5 spherical steel balls of 2 grams mass and 8 mm diameter impacting at 30mps (108kph)

At ASE we test Portable Camps are tested to the Australian Public Cyclone Shelter Guidelines and AS/AZS 11700:2002 Part Structural Design Action—General Principles.