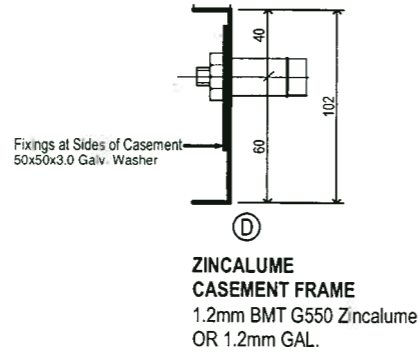
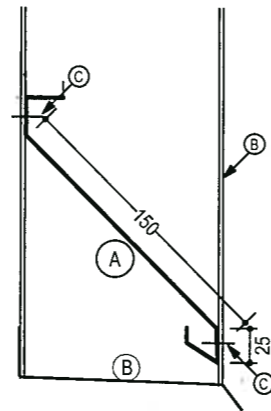
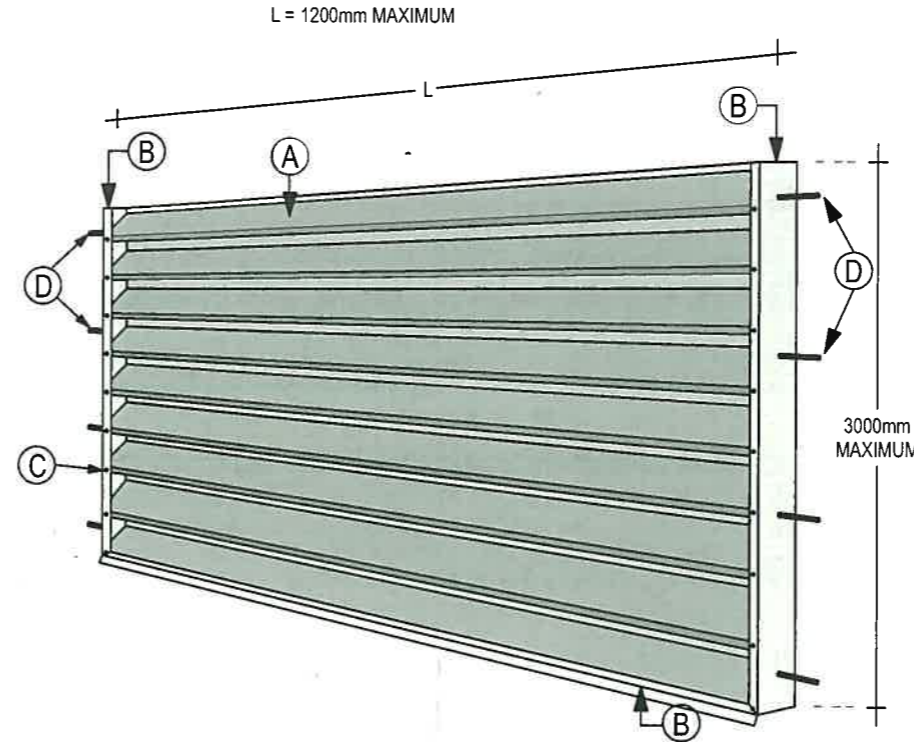
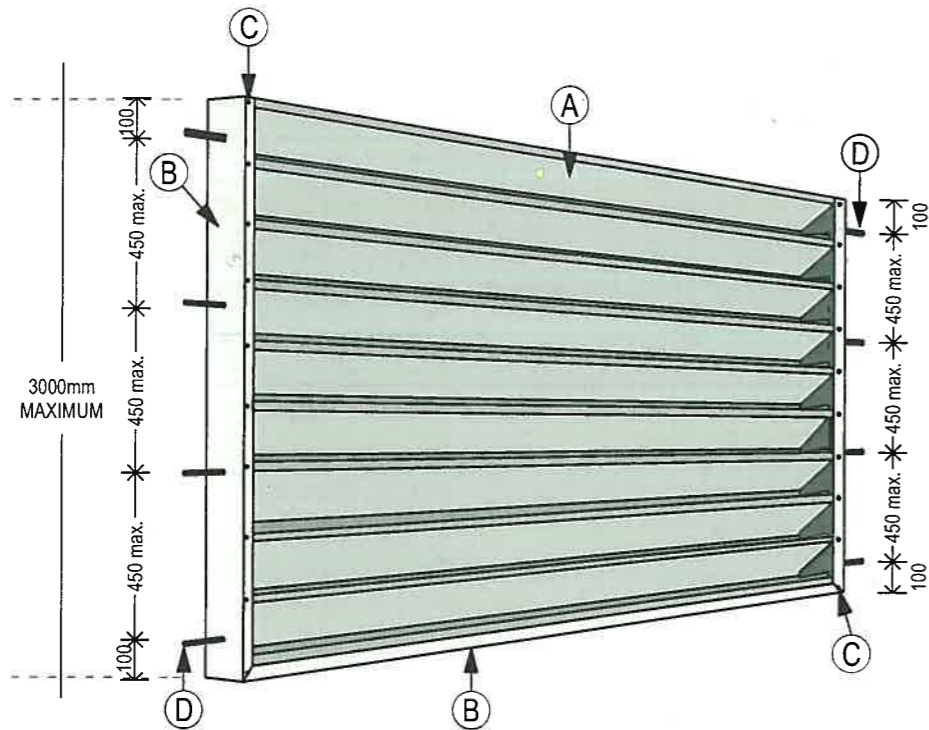


**NORTHERN TERRITORY DEEMED TO COMPLY MANUAL – National Construction Code Volume 2 (Section 3.0.4 Structural resistance of materials in high wind areas)**

This product has been determined to satisfy NCC Performance Requirement P2.1.1 for structural stability and resistance.



**LEGEND for TYPE 2 Louvres**

- (A) 0.55 BMT G550 zincalume louvre blades as detailed.
- (B) 102x25x1.2mm thick G550 zincalume frame. Bottom plate inclined to shed water.
- (C) 10x16x16 class 4 TEK screws to front and back of each blade as shown.
- (D) Fixing to masonry: M10 mechanical galvanised anchor at each vertical casement frame. Fixed to manu's specs. Min 100mm edge distance for 15MPa masonry, 70mm for N32 concrete.  
OR  
M10 chemical galvanised anchor at each vertical casement frame. Fixed to manufacturer's specs Min 60mm edge distance for 15 MPa masonry & 50mm for N32 concrete, with 90mm embedment depth.

Fixing to steel: Series 500 TEK screws max. 450 c/c each side of each vertical casement frame to columns. Alternatively weld top and bottom plates to support with 2 of 3 CFW x 40 long @ 100 c/c on both sides at each upright location. Engineering & Certification of supports by others.

**Notes covering basis of DTC (Relevant test reports etc)**

1. DESIGN CRITERIA DETERMINED IN ACCORDANCE WITH AS/NZS1170 2:2011 WIND ACTIONS.  
2. TEST REPORT: 11344/R011A ISSUED BY ROPTFX ENGINEERING PTY LTD ON THE 16th FEBRUARY 2012.

Product Name  
**WEATHERPROOF LOUVRES - TYPE 2**

Product Description  
**1200 WIDE LOUVRE BANK CASEMENT**

Manufacturer's Details



100% Locally Owned & Operated!  
PO Box 39252 Winnellie NT 0821 | Australia  
8 Pak Street Berrimah Industrial Estate NT 0828  
T 08 89 470 566

ABN 26 607 587 459  
E sales@profilesnt.com.au

Design Criteria  
**DESIGN CRITERIA**

1. Region C
2. Annual Probability of Exceedance 1 in 500
3. Terrain Category = 2.0
4. Height = 10 metres
5. Regional Wind Speed  $V_R = 66$  m/s
6.  $M_s = M_t = M_d = 1.0$  &  $M_c = 1.05$
7.  $C_{pe} = +0.7 / -0.65$ ;  $C_{pi} = -0.65 / 0.5$   $k_{ce}$  &  $k_{ci} = 0.9$
8.  $C_{shp} = ((C_{pe} \times K_I) + C_{pi}) \times k_c = ((0.65 \times 2) + 0.5) \times 0.9 = 1.62$  max

The above design criteria may be varied as appropriate by the design engineer to suit other site applications where the ultimate design wind pressure does not exceed 4.67 kPa

Limitations

The louvre blades are expected to deform under ultimate cyclonic wind loading ( $V_R = 69.3$ m/s) but remain secured to the frame. The louvre blades will remain intact under serviceability wind conditions ( $V_R = 47$ m/s)

Accepted for inclusion in Deemed to Comply Manual

DTCM drawing number: M/331/01

Chairperson Signature:

Chairperson Name: Paul Nowland

Date of Approval: 28/11/2022 Expiry Date: 28/11/2027

Checking Engineer

Name: **John Towler**

Registration Number: **24642ES**

Date: **30.06.2022**

Signature:

Must be an Australian registered structural engineer

Certifying Engineer

Name: **Wisnu Lim**

NT Registration Number: **145651ES**

Date: **30 June 2022**

Signature:

Must be a registered structural engineer in the Northern Territory