

SYSTEM 75 TURRETS

TURRETS

Small format assemblies with pressed metal roofs are used extensively for 'supply' and 'exhaust' air and natural ventilation.

Turrets are mounted on a prepared builders kerb having a minimum clear height of 150mm and a minimum thickness of 100mm for concrete.

There is no limitation on the length of a turret but width is restricted to 2200mm. Turrets exceeding this size will require additional structural support and roofing fabric by other specialist suppliers.

The free area of turrets is dictated by the opening in the roof and therefore, this criteria needs to be taken into account.

To size a turret from (or to suit) an overall free area:

STEP 1: ESTABLISH HEIGHT.

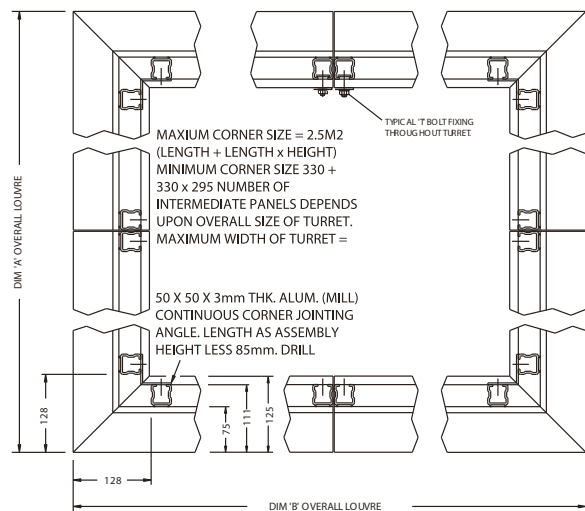
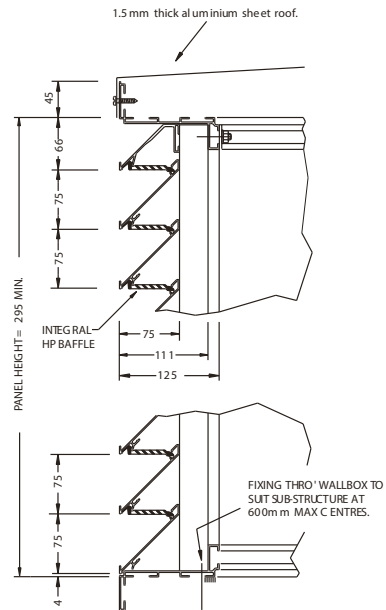
This is a number of 75 increments plus a top blade (91 EP, 99 SP). Minimum 3 increments.

STEP 2: FIND 'HEIGHT FREE AREA'.

By multiplying the number of 75 increments (which equals the number of gaps) by either 0.031mm for EP (or SP + Vermin) or 0.036 for SP with birdguard, obtains the height free area'. Divide 'height free area' into overall free area.

STEP 3: ADD FOR THE FOUR 'DEAD' CORNERS (1.255M).

By adding 1.288m to the result of step 2, the total external perimeter of your turret is now known.



STEP 4: ESTABLISH SHAPE.

Divide external perimeter into four if square or two sets of equal sides if rectangular.

Example: Free area required = 0.5m². Louvre = 75EP

- 1) Height to be 5 x 75 + 91 (=466)
- 2) 5 x 0.031 = 0.155 (height free area) 0.5 ÷ 0.155 = 3.226
- 3) 3.226 + 1.288 = 4.514 (total periphery)
- 4) 4.514 ÷ 4 = 1.129 each side if square or 4.514 - (2 x 1.5 Long) = 1.514 ÷ 2 = 0.757 giving a rectangular turret 1500 x 757

