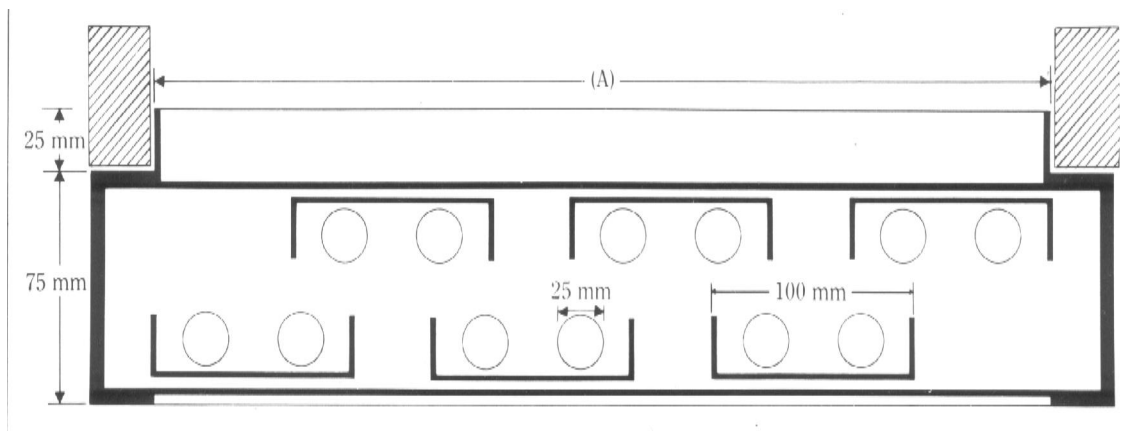


## SAND TRAP LOUVERS



- The sand trap louver is made of aluminium section. It is composed of two sets of inverted U-channels, mounted vertically on two opposite rows.
- The sand trap louver is used at the fresh air inlet duct of the air handling unit. It can lower the dust loading of conventional filtration as it is designed to separate large size sand particles at low to medium speeds. It is also fitted with a bird screen mesh made of galvanized steel to protect against the unwanted objects.
- The sand trap louver is a self emptying system, it has a set of holes at the bottom face of the casing to discharge separated sand particles.

# Louvers



## SAND TRAP LOUVERS

### Standard Sizes:

(Use any combination of width & length)

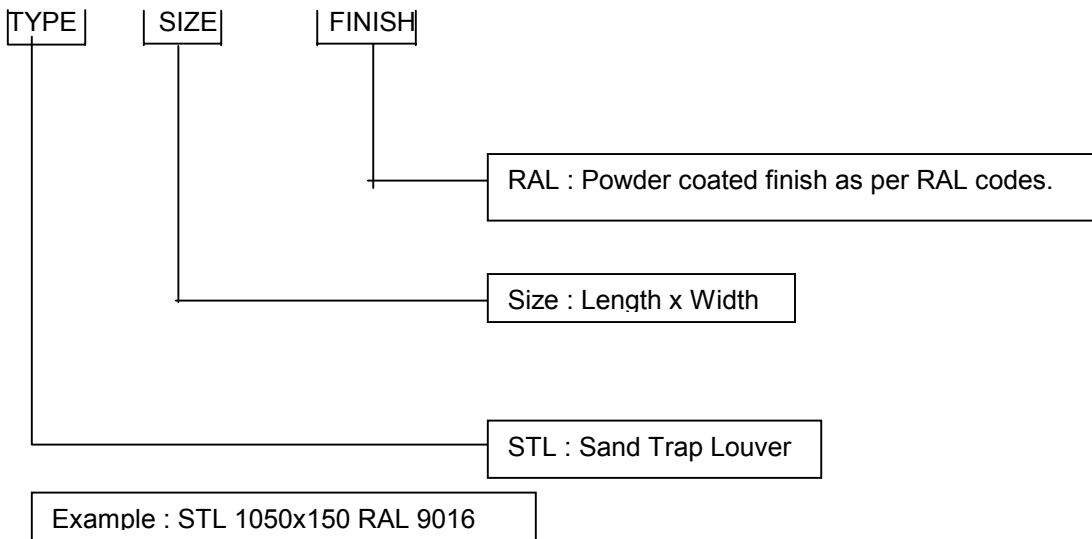
Width (B) (mm)	Length (A) (mm)
300	300
450	450
600	600
750	750
900	900
1050	1050
1200	1200
1350	1350
1500	1500

### Available type of finishing:

- Powder coated (painted to RAL codes)

- To convert into Imperial units use (1 inch = 25mm)
- Non standard sizes are available upon request.

### ORDERING SYSTEM



## SAND TRAP LOUVERS

### Performance Data

- Test results conducted on similar equipment indicated a typical efficiency of 90% on AC coarse (150 - 700 micron) and 60% on AC fine test duct (75 - 700 microns).

- Free area ratio = 0.32 (approx.)

- To calculate the air flow rate :

$$\text{CFM} = \frac{0.32 \times A(\text{in}^2) \times B(\text{in}^2) \times \text{Face velocity}}{144}$$

$$\text{L/S} = \frac{0.32 \times A(\text{mm}) \times B(\text{mm}) \times \text{Face velocity}}{1000}$$

- For normal operation conditions, sand trap louvers used for natural ventilation purposes are rated at a recommended Face velocity of 1.0 m/s.

