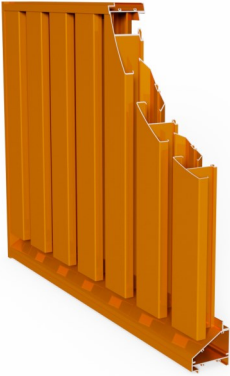


# Model—SA-440V

## 101.6mm DEEP SAND TRAP LOUVER



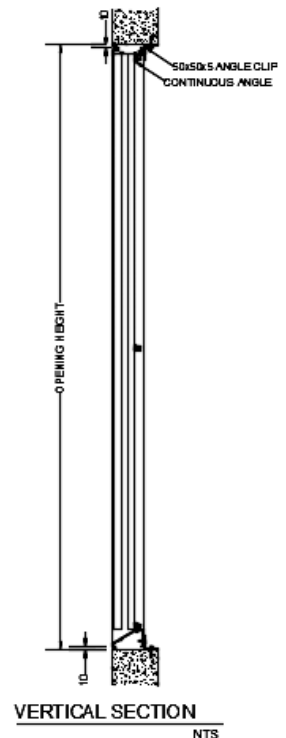
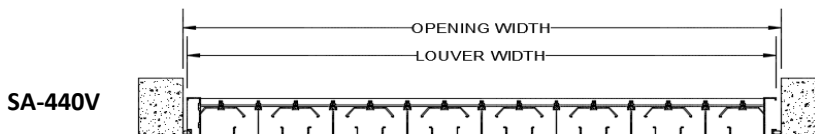
### AIRFLOW PERFORMANCE:

- Free Area: 28.6%
- Beginning point of water penetration (@0.01oz / ft<sup>2</sup> of free area) - 876 fpm (4.5 m/s)
- Airflow Classification—Class 3 - Static Pressure Loss: Not more than (16 Pa) @ (2.6 m/s) Free Area Velocity

### SAND REJECTION PERFORMANCE:

| SAND GRADE                 | SAND REJECTION EFFICIENCY % @ Core Velocity (m/s) |         |         |         |
|----------------------------|---------------------------------------------------|---------|---------|---------|
|                            | 0.5 m/s                                           | 1.0 m/s | 1.3 m/s | 2.0 m/s |
| 1 - 699 microns (Standard) | 88.10%                                            | 63.00%  | 36.60%  | 5.40%   |
| 355 - 425 microns (Coarse) | 96.30%                                            | 89.50%  | 78.70%  | 20.10%  |

- SA-440V sand trap louver is tested as per BS EN13181:2001 for air performance and for sand rejection efficiency subjected to wind driven sand at an airflow speed of 20-25 m/s.
- Self Generated Noise Data Available Upon Request.



SA-440V

### System Description:

101.6mm deep extruded aluminum construction; frame with channel profile; corner joints mitered and mechanically fastened, with continuous recessed caulking channel each side; capable of long vertical spans, tested for sand rejection and air performance in accordance with BS EN 13181:2001 standard.

### Material & Finishes:

- SA-440V comprises 2-rows of 100mm wide vertical sand trap blades in 101.6mm deep extruded aluminum frames. A galvanized steel option is also available. SA-440V recommended for large openings exceeding 2m in height subject to high wind pressure.
  - Blades: Vertical—Sand trap
  - Frame depth: 101.6mm deep
- Metal Thickness: Frame 2mm; blades (1.6mm—2mm) options are available.
- Finish: PE-SDF / PVDF / Anodize after fabrication
- Color: As scheduled.
- Mullions: Exposed
- Screens: Bird mesh / Insect mesh
- Screen location: Interior
- Screening Material: Aluminum / Stainless Steel

### Louver Construction:

- Wind Load Resistance: Design to resist +ve and -ve wind load of \_\_\_ psf (\_\_\_ kPa) without damage or permanent deformation.
- Blades: One piece extrusions with reinforcing bosses, supported and lined up with heavy-gage extruded aluminum blade braces, positively interlocked to each blade and mechanically secured to structure by aluminum and stainless steel fastenings.
- Exposed edges and ends of metal dressed smooth, free from sharp edges.
- Exposed connections and joints constructed to exclude water.

### Warranty:

OSA louvers warranted for 2 years against defective material and workmanship, and 20 Years for Finishes.

# Model—SA-440V

101.6mm DEEP SAND TRAP LOUVER



## FREE AREA CALCULATIONS IN FT<sup>2</sup> And M<sup>2</sup>

Louver Height in Inches and Meters

|                                   |      | 18   | 24   | 30   | 36   | 42   | 48   | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    |
|-----------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   |      | 0.46 | 0.61 | 0.76 | 0.91 | 1.07 | 1.22 | 1.37  | 1.52  | 1.68  | 1.83  | 1.98  | 2.13  | 2.29  | 2.44  |
| Louver Width in Inches and Meters | 18   | 0.45 | 0.67 | 0.89 | 1.12 | 1.34 | 1.57 | 1.79  | 2.01  | 2.23  | 2.35  | 2.56  | 2.79  | 3.01  | 3.24  |
|                                   | 0.46 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.15 | 0.17  | 0.19  | 0.21  | 0.22  | 0.24  | 0.26  | 0.28  | 0.30  |
|                                   | 24   | 0.67 | 1.01 | 1.34 | 1.45 | 1.90 | 2.23 | 2.56  | 2.68  | 3.12  | 3.46  | 3.80  | 4.02  | 4.35  | 4.69  |
|                                   | 0.61 | 0.06 | 0.09 | 0.12 | 0.13 | 0.18 | 0.21 | 0.24  | 0.25  | 0.29  | 0.32  | 0.35  | 0.37  | 0.40  | 0.44  |
|                                   | 30   | 0.89 | 1.22 | 1.57 | 1.90 | 2.35 | 2.79 | 3.12  | 3.57  | 3.90  | 4.35  | 4.69  | 5.14  | 5.47  | 5.92  |
|                                   | 0.76 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.29  | 0.33  | 0.36  | 0.40  | 0.44  | 0.48  | 0.51  | 0.55  |
|                                   | 36   | 1.12 | 1.56 | 2.01 | 2.45 | 2.91 | 3.35 | 3.90  | 4.35  | 4.80  | 5.24  | 5.81  | 6.25  | 6.58  | 7.03  |
|                                   | 0.91 | 0.10 | 0.15 | 0.19 | 0.23 | 0.27 | 0.31 | 0.36  | 0.40  | 0.45  | 0.49  | 0.54  | 0.58  | 0.61  | 0.65  |
|                                   | 42   | 1.22 | 1.79 | 2.35 | 2.91 | 3.35 | 4.02 | 4.58  | 5.14  | 5.69  | 6.25  | 6.81  | 7.26  | 7.82  | 8.37  |
|                                   | 1.07 | 0.11 | 0.17 | 0.22 | 0.27 | 0.31 | 0.37 | 0.43  | 0.48  | 0.53  | 0.58  | 0.63  | 0.67  | 0.73  | 0.78  |
|                                   | 48   | 1.45 | 2.12 | 2.68 | 3.35 | 4.02 | 4.58 | 5.24  | 5.92  | 6.58  | 7.14  | 7.82  | 8.37  | 9.04  | 9.71  |
|                                   | 1.22 | 0.13 | 0.20 | 0.25 | 0.31 | 0.37 | 0.43 | 0.49  | 0.55  | 0.61  | 0.66  | 0.73  | 0.78  | 0.84  | 0.90  |
|                                   | 54   | 1.67 | 2.23 | 3.01 | 3.80 | 4.46 | 5.24 | 6.03  | 6.70  | 7.37  | 8.03  | 8.82  | 9.60  | 10.27 | 11.04 |
|                                   | 1.37 | 0.16 | 0.21 | 0.28 | 0.35 | 0.42 | 0.49 | 0.56  | 0.62  | 0.69  | 0.75  | 0.82  | 0.89  | 0.95  | 1.03  |
|                                   | 60   | 1.90 | 2.68 | 3.35 | 4.25 | 5.02 | 5.92 | 6.70  | 7.37  | 8.26  | 9.04  | 9.93  | 10.71 | 11.39 | 12.28 |
|                                   | 1.52 | 0.18 | 0.25 | 0.31 | 0.39 | 0.47 | 0.55 | 0.62  | 0.69  | 0.77  | 0.84  | 0.92  | 1.00  | 1.06  | 1.14  |
|                                   | 66   | 2.01 | 2.90 | 3.80 | 4.69 | 5.58 | 6.48 | 7.37  | 8.26  | 9.16  | 9.93  | 10.94 | 11.72 | 12.61 | 13.62 |
|                                   | 1.68 | 0.19 | 0.27 | 0.35 | 0.44 | 0.52 | 0.60 | 0.69  | 0.77  | 0.85  | 0.92  | 1.02  | 1.09  | 1.17  | 1.27  |
|                                   | 72   | 2.23 | 3.12 | 4.13 | 5.36 | 6.13 | 7.14 | 8.14  | 9.04  | 10.05 | 10.94 | 11.83 | 12.83 | 13.84 | 14.84 |
|                                   | 1.83 | 0.21 | 0.29 | 0.38 | 0.50 | 0.57 | 0.66 | 0.76  | 0.84  | 0.93  | 1.02  | 1.10  | 1.19  | 1.29  | 1.38  |
|                                   | 78   | 2.35 | 3.46 | 4.46 | 5.58 | 6.70 | 7.70 | 8.81  | 9.82  | 10.94 | 11.83 | 12.94 | 14.06 | 15.06 | 16.07 |
|                                   | 1.98 | 0.22 | 0.32 | 0.42 | 0.52 | 0.62 | 0.72 | 0.82  | 0.91  | 1.02  | 1.10  | 1.20  | 1.31  | 1.40  | 1.49  |
|                                   | 84   | 2.56 | 3.68 | 4.91 | 6.03 | 7.26 | 8.37 | 9.60  | 10.60 | 11.63 | 12.83 | 13.95 | 15.18 | 16.18 | 17.41 |
|                                   | 2.13 | 0.24 | 0.34 | 0.46 | 0.56 | 0.67 | 0.78 | 0.89  | 0.99  | 1.08  | 1.19  | 1.30  | 1.41  | 1.51  | 1.62  |
|                                   | 90   | 2.79 | 4.02 | 5.24 | 6.48 | 7.70 | 9.04 | 10.27 | 11.39 | 12.50 | 13.84 | 15.06 | 16.18 | 17.41 | 18.75 |
|                                   | 2.29 | 0.26 | 0.37 | 0.49 | 0.60 | 0.72 | 0.84 | 0.95  | 1.06  | 1.16  | 1.29  | 1.40  | 1.51  | 1.62  | 1.74  |
|                                   | 96   | 3.01 | 4.24 | 5.58 | 6.92 | 8.26 | 9.60 | 10.94 | 12.05 | 13.39 | 14.73 | 15.95 | 17.29 | 18.75 | 19.98 |
|                                   | 2.44 | 0.28 | 0.39 | 0.52 | 0.64 | 0.77 | 0.89 | 1.02  | 1.12  | 1.25  | 1.37  | 1.48  | 1.61  | 1.74  | 1.86  |

