WE GUIDE
AIR
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>> SAND TRAP LOUVERS - STLC 03 - 04
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>> ALUMINIUM FILTER AF 11
>> The sand trap louver is made of aluminum section/GI sheet. 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. 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 can be fitted with a bird/insect screen mesh.

>> The sand trap louver is a self emptying system, it has a set of holes at the bottom of the casing to discharge separated sand particles.

Ordering Key:

<table>
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<tr>
<th>S</th>
<th>T</th>
<th>L A/ G</th>
<th>SSWM</th>
<th>SF</th>
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**NOTE:** 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE
**LOUVERS**

The well mounted exhaust air louver EAL-2 is a weatherproof external cover for air inlet and discharge openings. The exhaust air louver EAL-2 is composed of a set of blades made of aluminum extruded profiles arranged in horizontal rows and inclined downward to protect against rain water. The exhaust air louver EAL-2 is used in cooling, heating, and air ventilation applications. Tested by BSRIA-UK in accordance to EN 13181:2001.

### ORDERING KEY:

- **E A 2 IS SIZE**
- **EXHAUST AIR LOUVER WITH 2 INCH DEPTH**
- **--: WITHOUT SCREEN/WIRE MESH**
- **IS: WITH G.I. INSECT SCREEN**
- **SSWM: WITH STAINLESS STEEL WIRE MESH**
- **SIZE: WIDTH X HEIGHT**

**NOTE:** 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE.

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**PRESSURE DROP DATA**

**WATER PENETRATION DATA**

**SAND REJECTION EFFECTIVENESS DATA**

**FREE AREA CHART (SQUARE FEET)**

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The sand trap louver is made of aluminum section/GI sheet. 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. 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 can be fitted with a bird/insect screen mesh.

The sand trap louver is a self emptying system, it has a set of holes at the bottom and a chute to discharge separated sand particles.

Tested by ANSI/AMCA 500-L

<table>
<thead>
<tr>
<th>S</th>
<th>T</th>
<th>L</th>
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<th>SSWM</th>
<th>SF</th>
<th>SIZE</th>
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<tr>
<td>IS</td>
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<td>SIZE: WIDTH X HEIGHT OUTER SIZE FOR STLC MODEL</td>
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**NOTE: 1219 MM X 1219 MM IS MAXIMUM SINGLE SECTION SIZE**
Beta Industrial LLC certifies that the STLC shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance, Wind Driven Rain and Wind Driven Sand.

The beginning point of water penetration is 232.6 fpm

Test Information
Tested in accordance with ANSI/AMCA 500-L, Figure 5.5 Test sample size is 1219mm x 1219mm (48 in. x 48 in.) Air Performance data are based on intake performance.

The sand grading used for the test is between 76μm - 699μm as per AMCA 500-L.
The well mounted exhaust air louver EAL-2 is a weather proof external cover for air inlet and discharge openings.

The exhaust air louver EAL-2 is composed of a set of blades made of aluminum extruded profiles/GI sheet arranged in horizontal rows and inclined downward to protect against rain water.

The exhaust air louver EAL-2 is used in cooling, heating and air ventilation applications.

Frame depth 45mm, spacing 35mm & blade angle 60°

Free area ratio (approx.) = 0.42

To Calculate the air flow rate:

$\text{CFM} = \frac{0.42 \times A (\text{in}^2) \times B (\text{in}^2) \times \text{Face Velocity (fpm)}}{144}$

$L/S = \frac{0.42 \times A (\text{mm}) \times B (\text{mm}) \times \text{Face Velocity (m/s)}}{1000}$

Ordering Key:

<table>
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<tr>
<th>E</th>
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<th>L</th>
<th>2A/G</th>
<th>IS</th>
<th>SIZE</th>
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<tr>
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<tr>
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<tr>
<td>SIZE: WIDTH X HEIGHT</td>
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</tbody>
</table>

**NOTE: 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE**
>> The gravity air louver is a wall-mounted device. It is composed of a set of horizontally mounted blades; they are normally closed and are free to rotate about the horizontal axis.

>> The blades & frame are manufactured from aluminum extruded profiles.

>> Horizontally mounted blades are available with bushes.

>> Free area ratio (approx.) = 0.82 for 100% open blades.

To calculate the air flow rate:

\[ \text{CFM} = 0.82 \times A \text{ (in")} \times B \text{ (in")} \times \text{Face velocity (fpm)} \]

\[ \text{L/S} = 0.82 \times A \text{ (mm)} \times B \text{ (mm)} \times \text{Face velocity (m/s)} \]

SCREW FIXING
CLIP FIXING

Ordering Key:

EAL: GRAVITY AIR LOUVER
GALB: GRAVITY AIR LOUVER WITH BRASS BUSHES
GAL: GRAVITY AIR LOUVER WITHOUT BUSHES
--: WITHOUT CONNECTING ROD ON BLADES
CR: WITH CONNECTING ROD ON BLADES
--: WITHOUT SCREEN/WIRE MESH
IS: WITH G.I. INSECT SCREEN
SSWM: WITH STAINLESS STEEL WIRE MESH
SIZE: WIDTH X HEIGHT

**NOTE: 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE**

>> The exhaust air louver is composed of a set of blades made of 2MM aluminum extruded profile/GI sheet arranged in 45 degree in horizontal rows and inclined downward to protect against rain water.

>> The exhaust air louver is used in cooling, heating and air ventilation applications for intake & discharge.

>> Frame depth 100MM, spacing 87MM & blade angle 45.

>> The wall mounted exhaust air louver EAL-4 is a weather proof external cover for air inlet and discharge openings.

FREE AREA CHART (SQUARE FEET)

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<th>Width (inches)</th>
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EAL4A: EXHAUST AIR LOUVER WITH 4 INCH DEPTH IN ALUMINIUM
EAL4G: EXHAUST AIR LOUVER WITH 4 INCH DEPTH IN GI

-- WITHOUT SCREEN/WIRE MESH
IS: WITH G.I. INSECT SCREEN
SSWM: WITH STAINLESS STEEL WIRE MESH

SIZE: WIDTH X HEIGHT (NECK SIZE)

**NOTE: 1119 MM X 1119 MM IS MAXIMUM SINGLE SECTION SIZE**
Beta Industrial LLC certifies that the EAL4 shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance and Water Penetration ratings.

Test Information
Tested in accordance with ANSI/AMCA 500-L, Figure 5.5. Test sample size is 1219mm x 1219mm (48 in. x 48 in.) (Out to Out). Air Performance data are based on intake performance.

**Pressure Drop Data**

![Pressure Drop Data Graph](image)

**Water Penetration Data**

![Water Penetration Data Graph](image)

**Ordering Key:**
- GAL: GRAVITY AIR LOUVER WITHOUT BUSHES
- GALB: GRAVITY AIR LOUVER WITH BRASS BUSHES
- **: WITHOUT CONNECTING ROD ON BLADES
- CR: WITH CONNECTING ROD ON BLADES
- **: WITHOUT SCREEN/WIRE MESH
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The AMCA Certified Ratings Seal applies to Air Performance and Water Penetration ratings.

Test Information
Tested in accordance with ANSI/AMCA 500-L, Figure 5.5. Test sample size is 1219mm x 1219mm (48 in. x 48 in.) (Out to Out). Air Performance data are based on intake performance.

**Pressure Drop Data**

![Pressure Drop Data Graph](image)

**Water Penetration Data**

![Water Penetration Data Graph](image)

**Ordering Key:**
- GAL: GRAVITY AIR LOUVER WITHOUT BUSHES
- GALB: GRAVITY AIR LOUVER WITH BRASS BUSHES
- **: WITHOUT CONNECTING ROD ON BLADES
- CR: WITH CONNECTING ROD ON BLADES
- **: WITHOUT SCREEN/WIRE MESH
- IS: WITH G.I. INSECT SCREEN
- SSWM: WITH STAINLESS STEEL WIRE MESH
- SIZE: WIDTH X HEIGHT

**NOTE:** 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE.
The gravity air louver is a wall mounted device. It is composed of a set of horizontally mounted blades; they are normally closed and are free to rotate about the horizontal axis.

The blades & frame are manufactured from aluminum extruded profiles.

Horizontally mounted blades are available with bushes.

Free area ratio (approx.) = 0.82 for 100% open blades.

To calculate the air flow rate:

\[
\text{CFM} = \frac{0.82 \times A \times B \times \text{Face velocity (fpm)}}{144}
\]

\[
L/S = \frac{0.82 \times A \times B \times \text{Face velocity (m/s)}}{1000}
\]

**Ordering Key:**

<table>
<thead>
<tr>
<th>G</th>
<th>A</th>
<th>L</th>
<th>B</th>
<th>CR</th>
<th>SSWM</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GALB: GRAVITY AIR LOUVER WITH BRASS BUSHES</td>
<td>GAL: GRAVITY AIR LOUVER WITHOUT BUSHES</td>
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<td>~: WITHOUT CONNECTING ROD ON BLADES</td>
<td>CR: WITH CONNECTING ROD ON BLADES</td>
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<td>~: WITHOUT SCREEN/WIRE MESH</td>
<td>IS: WITH G.I. INSECT SCREEN</td>
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<td>SSWM: WITH STAINLESS STEEL WIRE MESH</td>
<td>SIZE: WIDTH X HEIGHT</td>
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**NOTE:** 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE
The wall mounted fresh air louver is a simple form of filter louver. It is composed of an exhaust louver with an aluminum filter fixed at the back.

The fresh air louver is used to supply fresh clean air to the air handling units.

The filter is made from washable aluminum 1” media and is fixed on the back of the grille.

Insulating gasket can be fixed around the back of the frame to prevent infiltration between the frame and the wall.

Available types of finishing:
- Natural anodized aluminum finish.
- Powder coated to RAL codes.

Free area ratio (approx.) = 0.37

To calculate the air flow rate:

\[
\text{CFM} = 0.37 \times A \times B \times \text{Face velocity (fpm)}
\]

\[
L/S = 0.37 \times A \times B \times \text{Face velocity (m/s)}
\]

Ordering Key:

<table>
<thead>
<tr>
<th>F</th>
<th>A</th>
<th>L</th>
<th>DB</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>F</td>
<td>A</td>
<td>L</td>
<td>DB</td>
<td>SIZE</td>
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</tbody>
</table>

FRESH AIR LOUVER (WITH 1” AL FILTER)

~: WITHOUT DAMPER
DB: WITH BLACK DAMPER
DM: WITH MILL FINISH DAMPER

SIZE: WIDTH X HEIGHT

**NOTE: 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE**
The wall-mounted fresh air louver is composed of an exhaust air louver which is fixed to a frame that contains a filter by means of steel hinges.

The filter is made of washable aluminum media. It is contained in rear frame and is easily removable.

The fresh air louver can be opened like door to give flexibility to access the filter for either cleaning or changing.

The fresh air louver is used in cooling, heating and ventilation application. The existence of filter provides clean air to the system.

Free area ratio (approx.) = 0.37

To calculate the air flow rate:

\[
\text{CFM} = 0.37 \times A \text{ (in")} \times B \text{ (in")} \times \text{Face velocity (fpm)} \div 144
\]

\[
\text{L/S} = 0.37 \times A \text{ (mm)} \times B \text{ (mm)} \times \text{Face velocity (m/s)} \div 1000
\]

Ordering Key:

<table>
<thead>
<tr>
<th>F</th>
<th>A</th>
<th>L</th>
<th>H</th>
<th>DB</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>HINGED FRESH AIR LOUVER (WITH 1” AL FILTER)</td>
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<td>×: WITHOUT DAMPER</td>
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<td>DB: WITH BLACK DAMPER</td>
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<tr>
<td>DM: WITH MILL FINISH DAMPER</td>
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</table>

SIZE: WIDTH X HEIGHT

**NOTE: 2000 MM X 2000 MM IS MAXIMUM SINGLE SECTION SIZE**
AF Aluminum Filters are used widely in HVAC & other applications to filter air from dust and dirt.

AF is made of Aluminum filter media and a frame made of Aluminum extruded profiles.

AF is easily washable for frequent long-life use.

AF has a reasonable initial pressure drop.

Ordering Key:

<table>
<thead>
<tr>
<th>A</th>
<th>F</th>
<th>2</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>ALUMINUM FILTER</td>
<td>1” THICK AL FILTER</td>
<td>2” THICK AL FILTER</td>
<td>SIZE: WIDTH X HEIGHT</td>
</tr>
</tbody>
</table>