GENERAL

Designed to provide dual function of weather protection and airborne sound reduction applicable for industrial and commercial purpose. The sound ratings are based on sound transmission standards ASTM E90-04 and ASTM E413-04.

CONSTRUCTION

Manufactured from Aluminium/Stainless/Galvanized sheets mechanically jointed.
Frame .......................... 0.7mm - 3.0mm(T) Formed sheets
Blade ......................... 0.7mm - 3.0mm(T) Precision formed Sheets
Bird screen .................... Aluminium expanded mesh
Depth .............................. 203mm (8”)
Free Area (%) ......................... 23.00%
Min. Size ............................ 305x305 (mm)
Max. Size ............................ 2400x2400 (mm)
Larger Sizes in multiple section
Finish ....................... Mill Finish, Powder coated, Epoxy coated, PVDF and Natural Anodizing. Special coating is available upon request.
Louver Clearance ...................... 1/4 inch

OPTIONAL FEATURE

Blank Panels ...................... Double wall or Single skin
Mullion .............................. more than 1.8m width
Support screen .................. with Birdmesh or Insect mesh from Aluminium, Galvanized or Stainless steel.
Filter Rack ........................ Washable type
Openable Louver ................. Hinged/Pinned
Welded Assembly ............... Frames and blade with fillet welds concealed from view. Each weld has 25.4mm (1-inch) min. in length with 3.175mm (1/8 – inch) leg.
Irregular shapes ............... Triangular, Trapezoidal & etc.
Sleeved flange for Ductwok system.

STATIONARY LOUVER
FORMED ACOUSTIC LOUVER (8”) MODEL: - ACL-F8

RATINGS:
Test Method per ANSI/AMCA Standard 500L-12
Free Area: [48” x 48” (1219x1219mm)] – 3.67 ft²
Free Area Velocity: 441 fpm
Air Volume delivered: 1555 cfm
Pressure loss: 0.015 in. wg

SUGGESTED SPECIFICATION

Manufacture and install as specified hereinafter where shown on plans or as described in schedules. Louvers shall be stationary type entirely contained a 8” (203) frame. Louver components (heads, jambs, cills, blades and mullions) shall be factory assembled by Ventline. Louver sizes too large for shipping shall be made in modules for easy handling. Louver is designed to withstand a wind load of 30 lbs. per ft² (1.44kPa).

Louvers shall be Ventline Model ACL-F8 constructions as follows:
Frame: 0.7 - 3mm(T) precision formed sheets
Blades: 0.7 - 3mm(T) U-profile precision formed sheets
Screen: (T) Aluminium flattened expanded mesh.
Finish: To be selected from Standard RAL colour charts (Other colour is available upon request)
**Free Area Table**

<table>
<thead>
<tr>
<th>WIDTH - FT²</th>
<th>12</th>
<th>20</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
<th>48</th>
<th>54</th>
<th>60</th>
<th>66</th>
<th>72</th>
<th>78</th>
<th>84</th>
<th>90</th>
<th>96</th>
<th>108</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCHES</td>
<td>12</td>
<td>20</td>
<td>24</td>
<td>30</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>54</td>
<td>60</td>
<td>66</td>
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<td>78</td>
<td>84</td>
<td>90</td>
<td>96</td>
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<td>120</td>
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<tr>
<td>MM</td>
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<td>508</td>
<td>609</td>
<td>762</td>
<td>914</td>
<td>1067</td>
<td>1220</td>
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<td>1526</td>
<td>1679</td>
<td>1832</td>
<td>1985</td>
<td>2138</td>
<td>2291</td>
<td>2444</td>
<td>2687</td>
<td></td>
</tr>
<tr>
<td>WEIGHT - FT²</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
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<td>0.18</td>
<td>0.18</td>
</tr>
</tbody>
</table>

**Air Performance** (Standard Air .075 lb/ft³)
Test size 48 in. x 48 in.
Tested in accordance with ANSI/AMCA 500-L

**Water Penetration** (Standard Air .075 lb/ft³)
Test size 48 in. x 48 in.
Tested in accordance with ANSI/AMCA 600-L

**Transmission Loss**
Transmission Loss (TL) is measurement of the reduction of sound power transmission (dB) through an assembly at a given frequency. The more power that is reduced, the greater the TL. TL is tested in accordance with ASTM E90-04

**Sound Transmission Class**
The Sound Transmission Class (STC) is a rating of the effectiveness of an assembly in isolating or reducing airborne sound transmission. STC is a single number that summarizes airborne sound transmission loss data. Assemblies with higher STC ratings are more efficient at reducing sound transmission. STC is determined in accordance with ASTM E413-04

Ventline Metal Industries certifies that the model ACL-F8 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publications 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Seal applies to water penetration, air performance and sound ratings.

**ACI-F8 / August 2015**

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VENTLINE LOUVERS TESTED AT AMCA LABORATORY

Test Method per ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.5

AMCA Standard 500-L
Water Penetration Test
Figure 5.6 Setup
FINISHES

POWDER COATING: Louver shall be cleaned, pre-treated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and oven-cured polyester powder coatings complies with BS6496:1984 and Qualicoat requirement. Normally 70 to 90 microns.

PVDF COATING: Louver shall be cleaned, pre-treated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and Kynar resin coating with minimum 1.2 mils dry-film coating thickness that complies with AAMA2605-05. “Voluntary Specification, Performance Requirements and Tests Procedures for Superior Performance Organic Coatings on Aluminium Extrusions and Panels” and Qualicoat requirements.

ANODIZE: Louver shall be FINISHED-AFTER-ASSEMBLY with class 1 clear anodized or electrolytically color anodized coating that complies with AAMA Specification 611-98, “Voluntary Specification for Anodized Architectural Aluminium”. Color shall be from Gold, Silver and Black Matt or Polished.

EPOXY PAINT: Louver shall be cleaned, pre-treated and FINISH-AFTER-ASSEMBLY with an oven cured thermosetting enamel finish in compliance with AAMA 2603, “Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings”