MODEL 458DD

STANDARD CONSTRUCTION

Frame and blades to be 4" deep .081 extruded aluminum 6063 alloy.

1/2" mesh .063 flattened expanded aluminum bird screens in a removable extruded aluminum frame.

Finish to be mill.

INSTALLATION

Model 458DD should be installed in accordance with manufacturers recommended attachment method and in accordance with state and federal building codes.

WARRANTY

All materials and workmanship are warranted for a period of 1 year from date of completion.

MAINTENANCE

None required.

FEATURES

- All sizes are custom fabricated to meet project requirements.
- rain gutters running the full length of the blade
- Integral water spouts at the jambs to drain water from the blades to the exterior of the building.
- Clip angles for installation.
- All welded assembly.

OPTIONAL ACCESSORIES

Many optional accessories to the basic design are available at an additional cost. They include:

- Extended sill flashing
- Flanged frames of various sizes
- Hinged access panels
- Subframes
- Continuous perimeter angles
- Visible or invisible mullions for multiple section requirements.
- Anodized, Baked Enamel or Kynar finish

Please contact the factory for other special requirements.

SUGGESTED SPECIFICATIONS

Furnish and install where indicated on the drawings ILI extruded aluminum dual drainable blade Model 458DD louvers as manufactured by Industrial Louvers, Inc., Delano, MN. Extruded aluminum frame and blades shall be designed to collect and drain water to exterior at sill by means of gutters in front edges of blades and downspouts in jambs. Frames shall incorporate a drainable top blade. Frames and blade thickness to be .081" extruded aluminum 6063 alloy. Sill and jamb frames shall be continuously welded and caulked to help prevent water penetration to interior wall construction. Blades are attached by means of all-welded construction.

The louvers shall have a minimum of 9.44 sq. ft. (59%) free area on a 48 inch x 48 inch louver. The testing shall show a maximum water penetration of .01 oz. at an air flow of 786 FPM. Static Pressure Loss to be not more than .15 inch of water gage at an air flow of 845 FPM free area velocity.
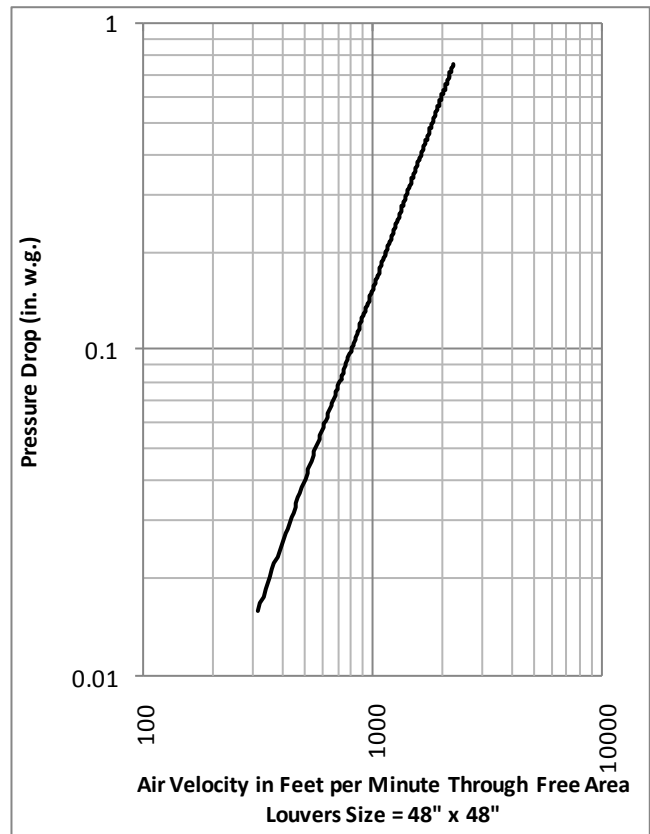
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MODEL 458DD

Free Area in Square Feet And Square Meters

Performance Chart

<table>
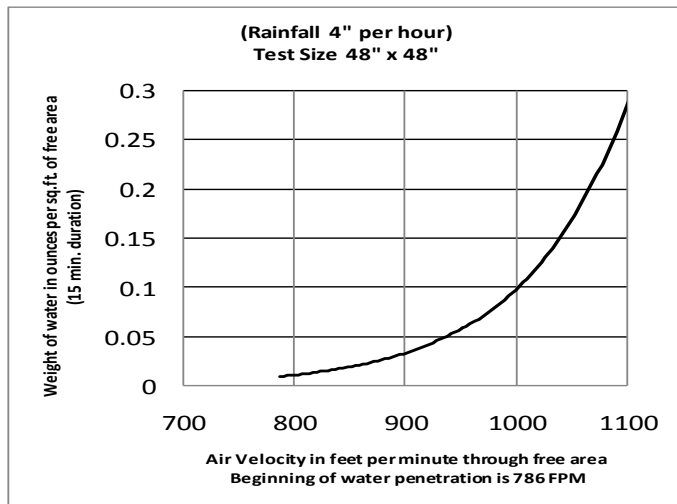<tr><td colspan="7">Free Area for openings up to 72" X 120".
For free area data for larger openings, contact factory.</td></tr>
<tr><td colspan="7">FREE AREA IN SQUARE FEET AND SQUARE METERS</td></tr>
<tr><td>3048. mm</td><td>0.526</td><td>1.126</td><td>1.726</td><td>2.327</td><td>2.926</td><td>3.527</td></tr>
<tr><td>120"</td><td>5.660</td><td>12.122</td><td>18.584</td><td>25.046</td><td>31.508</td><td>37.97</td></tr>
<tr><td>2743.2 mm</td><td>0.471</td><td>1.009</td><td>1.547</td><td>2.085</td><td>2.622</td><td>3.161</td></tr>
<tr><td>108"</td><td>5.072</td><td>10.863</td><td>16.654</td><td>22.446</td><td>28.237</td><td>34.028</td></tr>
<tr><td>2438.4 mm</td><td>0.417</td><td>0.892</td><td>1.368</td><td>1.843</td><td>2.318</td><td>2.795</td></tr>
<tr><td>96"</td><td>4.484</td><td>9.605</td><td>14.725</td><td>19.845</td><td>24.965</td><td>30.086</td></tr>
<tr><td>2133.6 mm</td><td>0.362</td><td>0.775</td><td>1.189</td><td>1.602</td><td>2.015</td><td>2.428</td></tr>
<tr><td>84"</td><td>3.897</td><td>8.346</td><td>12.795</td><td>17.245</td><td>21.694</td><td>26.143</td></tr>
<tr><td>1828.8 mm</td><td>0..07</td><td>0.658</td><td>1.009</td><td>1.360</td><td>1.711</td><td>2.062</td></tr>
<tr><td>72"</td><td>3.309</td><td>7.087</td><td>10.866</td><td>14.644</td><td>18.423</td><td>22.201</td></tr>
<tr><td>1524. mm</td><td>0.253</td><td>0.541</td><td>0.830</td><td>1.119</td><td>1.407</td><td>1.696</td></tr>
<tr><td>60"</td><td>2.721</td><td>5.829</td><td>8.936</td><td>12.044</td><td>15.151</td><td>18.259</td></tr>
<tr><td>1219.2 mm</td><td>0.198</td><td>0.424</td><td>0.651</td><td>0.877</td><td>1.103</td><td>1.330</td></tr>
<tr><td>48"</td><td>2.133</td><td>4.570</td><td>7.007</td><td>9.443</td><td>11.880</td><td>14.317</td></tr>
<tr><td>914.4 mm</td><td>0.143</td><td>0.307</td><td>0.471</td><td>0.635</td><td>0.799</td><td>0.963</td></tr>
<tr><td>36"</td><td>1.546</td><td>3.311</td><td>5.077</td><td>6.843</td><td>8.609</td><td>10.374</td></tr>
<tr><td>609.6 mm</td><td>0.089</td><td>0.190</td><td>0.292</td><td>0.394</td><td>0.495</td><td>0.597</td></tr>
<tr><td>24"</td><td>0.958</td><td>2.053</td><td>3.148</td><td>4.242</td><td>5.337</td><td>6.432</td></tr>
<tr><td>304.8 mm</td><td>0.034</td><td>0.073</td><td>0.113</td><td>0.152</td><td>0.192</td><td>0.231</td></tr>
<tr><td>12"</td><td>0.370</td><td>0.794</td><td>1.218</td><td>1.642</td><td>2.066</td><td>2.49</td></tr>
<tr><td></td><td>304.8 mm</td><td>609.6 mm</td><td>914.4 mm</td><td>1219.2 mm</td><td>1524. mm</td><td>1828.8 mm</td></tr>
<tr><td>H/W</td><td>12"</td><td>24"</td><td>36"</td><td>48"</td><td>60"</td><td>72"</td></tr>
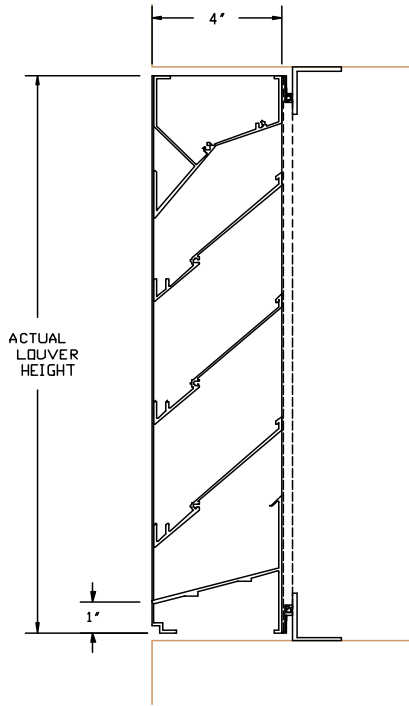</table>

Pressure Drop (in. w.g.) vs. Air Velocity in Feet per Minute Through Free Area
Louvers Size = 48" x 48"

Water Penetration Chart

(Rainfall 4" per hour)
Test Size 48" x 48"

Weight of water in ounces per sq.ft. of free area (15 min. duration)

Air Velocity in feet per minute through free area
Beginning of water penetration is 786 FPM

Ratings do not include the effect of a bird screen.

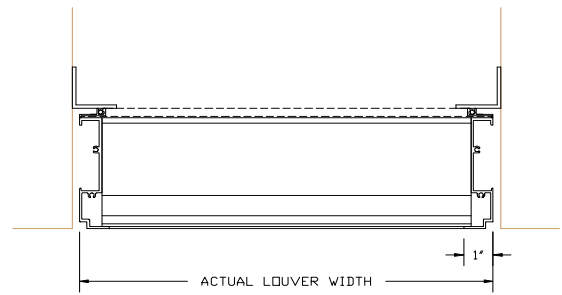NOTE: All tests are for standard .075 lb./cu. ft.
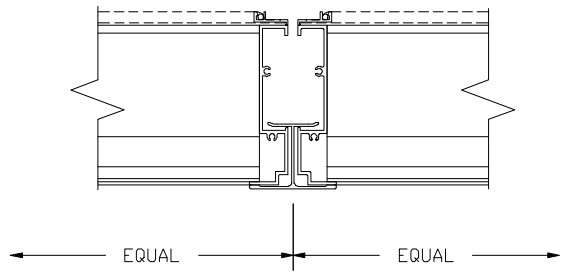
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JULY 2010

INDUSTRIAL LOUVERS INC.

MODEL 458DD

ACTUAL LOUVER HEIGHT

4″

1″

VERTICAL SECTION

ACTUAL LOUVER WIDTH

1″

HORIZONTAL SECTION

EQUAL   EQUAL

VISIBLE MULLION DETAIL

$\frac{1}{8}$″ GAP, TYP.

EQUAL   EQUAL
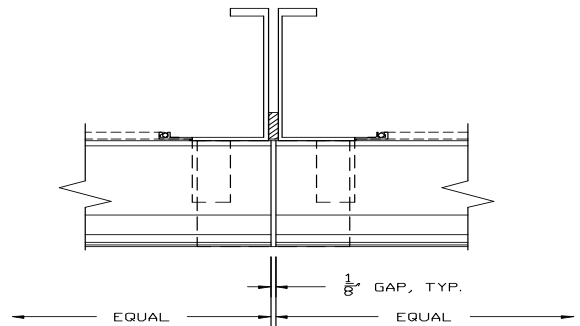
INVISIBLE MULLION DETAIL

ACCESSORIES:

☐ SILL FLASHING - DEPTH _____

☐ SCREEN _____

☐ FINISH _____

COLOR _____

☐ OTHER _____

ITEM NO.	QTY	SIZE Actual ☐ M.O. ☐		MULLION TYPE	NO. OF SECTIONS	REMARKS
		WIDTH	HEIGHT			

PROJECT _____

LOCATION _____

ARCH/ENGR. _____

CONTRACTOR _____

DATE _____

REPRESENTATIVE _____

ILI JOB NO. _____   REP NO. _____

Industrial Louvers, Inc.   Phone: 763-972-2981
511 South 7th Street   Fax: 763-972-2911
Delano, MN 55328

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