

**Model A12360**  
**12" (304.8 mm) Standard Fixed Acoustical Louver**

**Material:**

|   |   |
|---|---|
| <b>Material:</b>  | 1100 Aluminum Alloy, Fiberglass Insulation protected by woven (self-extinguishing) 100% Polyester sheeting  |
| <b>Nominal Thickness (heads, sills, jambs, &amp; mullions):</b> | 0.081" (2.06 mm)  |
| <b>Nominal Blade Thickness:</b>                                 | 0.081" (2.06 mm)  |
| <b>Furnished With:</b>  | Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame   |
| <b>Additional Options (at additional cost):</b>                 | Insect screen (in lieu of bird screen),<br>Continuous clip angles for attachment<br>Sheet blank off, Insulated blank off<br>Sill pans, Flange frames<br>Integrated glazing frames |



**Test Summary:**  
**For a 4 Foot by 4 Foot Unit.**

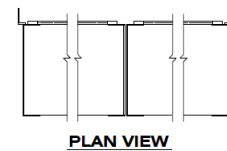
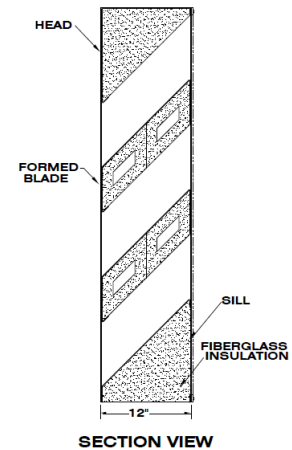
*Tested with mill finish and no screen*

- Free area = 3.89 ft<sup>2</sup> (0.36 m<sup>2</sup>)
- Percent free area = 24.3%
- Free area velocity at the point of beginning water penetration (@ 0.01 oz. / ft<sup>2</sup> of free area based on a 15 minute interval test) = 837 FPM (4.25 m/s)
- Intake pressure drop at 837 FPM free area velocity = 0.074in H<sub>2</sub>O (18.4 Pa)

**Acoustical Data:**

The louver manufacturer shall submit test data from an accredited acoustical laboratory in accordance with ASTM Standard E90-90. The minimum acceptable performance through all octave bands is as follows: STC = 13

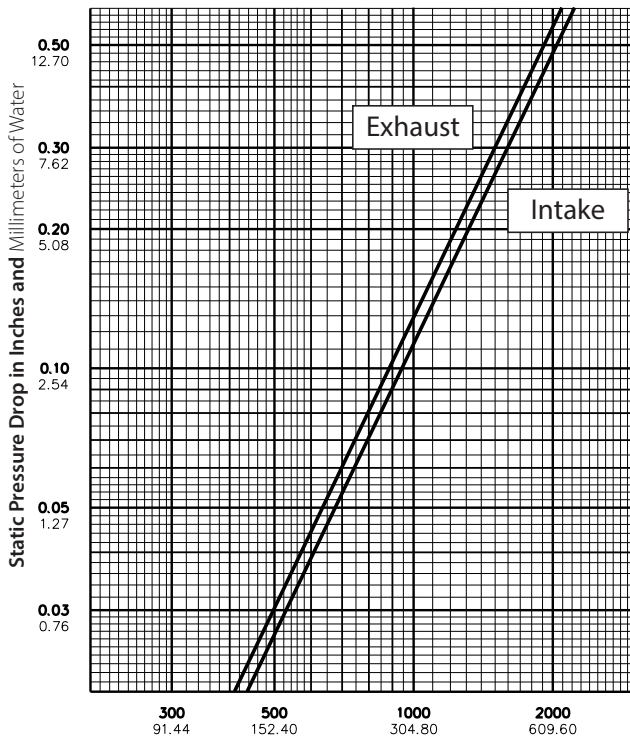
| Frequency (hz)           | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------------------|----|-----|-----|-----|------|------|------|------|
| <b>Transmission Loss</b> | 10 | 9   | 9   | 12  | 15   | 14   | 12   | 12   |
| <b>Noise Reduction</b>   | 16 | 15  | 15  | 18  | 21   | 20   | 18   | 18   |



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**Water Penetration Statement**

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.



**Air Velocity in Feet and Meters per Minute Through Free Area**

Data corrected to standard air density.  
 48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

**Free Area Table** (Free area in sq. feet and sq. meters)

For additional sizes, please visit:

<https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool>

|            | Width in Inches and Meters |             |              |              |              |              |              |              |              |  |
|------------|----------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
|            | 12                         | 18          | 24           | 30           | 36           | 42           | 48           | 54           | 60           |  |
|            | 0.30                       | 0.46        | 0.61         | 0.76         | 0.91         | 1.07         | 1.22         | 1.37         | 1.52         |  |
| <b>24</b>  | <b>0.35</b>                | <b>0.62</b> | <b>0.88</b>  | <b>1.15</b>  | <b>1.41</b>  | <b>1.68</b>  | <b>1.94</b>  | <b>2.21</b>  | <b>2.47</b>  |  |
| 0.61       | 0.03                       | 0.06        | 0.08         | 0.11         | 0.13         | 0.16         | 0.18         | 0.21         | 0.23         |  |
| <b>30</b>  | <b>0.35</b>                | <b>0.62</b> | <b>0.88</b>  | <b>1.15</b>  | <b>1.41</b>  | <b>1.68</b>  | <b>1.94</b>  | <b>2.21</b>  | <b>2.47</b>  |  |
| 0.76       | 0.03                       | 0.06        | 0.08         | 0.11         | 0.13         | 0.16         | 0.18         | 0.21         | 0.23         |  |
| <b>36</b>  | <b>0.35</b>                | <b>0.62</b> | <b>0.88</b>  | <b>1.15</b>  | <b>1.41</b>  | <b>1.68</b>  | <b>1.94</b>  | <b>2.21</b>  | <b>2.47</b>  |  |
| 0.91       | 0.03                       | 0.06        | 0.08         | 0.11         | 0.13         | 0.16         | 0.18         | 0.21         | 0.23         |  |
| <b>42</b>  | <b>0.71</b>                | <b>1.24</b> | <b>1.77</b>  | <b>2.30</b>  | <b>2.83</b>  | <b>3.36</b>  | <b>3.89</b>  | <b>4.42</b>  | <b>4.95</b>  |  |
| 1.07       | 0.07                       | 0.12        | 0.16         | 0.21         | 0.26         | 0.31         | 0.36         | 0.41         | 0.46         |  |
| <b>48</b>  | <b>0.71</b>                | <b>1.24</b> | <b>1.77</b>  | <b>2.30</b>  | <b>2.83</b>  | <b>3.36</b>  | <b>3.89</b>  | <b>4.42</b>  | <b>4.95</b>  |  |
| 1.22       | 0.07                       | 0.12        | 0.16         | 0.21         | 0.26         | 0.31         | 0.36         | 0.41         | 0.46         |  |
| <b>54</b>  | <b>0.71</b>                | <b>1.24</b> | <b>1.77</b>  | <b>2.30</b>  | <b>2.83</b>  | <b>3.36</b>  | <b>3.89</b>  | <b>4.42</b>  | <b>4.95</b>  |  |
| 1.37       | 0.07                       | 0.12        | 0.16         | 0.21         | 0.26         | 0.31         | 0.36         | 0.41         | 0.46         |  |
| <b>60</b>  | <b>1.06</b>                | <b>1.24</b> | <b>1.77</b>  | <b>2.30</b>  | <b>2.83</b>  | <b>3.36</b>  | <b>3.89</b>  | <b>4.42</b>  | <b>4.95</b>  |  |
| 1.52       | 0.10                       | 0.12        | 0.16         | 0.21         | 0.26         | 0.31         | 0.36         | 0.41         | 0.46         |  |
| <b>66</b>  | <b>1.06</b>                | <b>1.86</b> | <b>2.65</b>  | <b>3.45</b>  | <b>4.24</b>  | <b>5.04</b>  | <b>5.83</b>  | <b>6.63</b>  | <b>7.42</b>  |  |
| 1.68       | 0.10                       | 0.17        | 0.25         | 0.32         | 0.39         | 0.47         | 0.54         | 0.62         | 0.69         |  |
| <b>72</b>  | <b>1.41</b>                | <b>2.47</b> | <b>3.53</b>  | <b>4.59</b>  | <b>5.65</b>  | <b>6.71</b>  | <b>7.77</b>  | <b>8.83</b>  | <b>9.89</b>  |  |
| 1.83       | 0.13                       | 0.23        | 0.33         | 0.43         | 0.52         | 0.62         | 0.72         | 0.82         | 0.92         |  |
| <b>78</b>  | <b>1.41</b>                | <b>2.47</b> | <b>3.53</b>  | <b>4.59</b>  | <b>5.65</b>  | <b>6.71</b>  | <b>7.77</b>  | <b>8.83</b>  | <b>9.89</b>  |  |
| 1.98       | 0.13                       | 0.23        | 0.33         | 0.43         | 0.52         | 0.62         | 0.72         | 0.82         | 0.92         |  |
| <b>84</b>  | <b>1.77</b>                | <b>3.09</b> | <b>4.42</b>  | <b>5.74</b>  | <b>7.07</b>  | <b>8.39</b>  | <b>9.72</b>  | <b>11.05</b> | <b>12.37</b> |  |
| 2.13       | 0.16                       | 0.29        | 0.41         | 0.53         | 0.66         | 0.78         | 0.90         | 1.03         | 1.15         |  |
| <b>90</b>  | <b>1.77</b>                | <b>3.09</b> | <b>4.42</b>  | <b>5.74</b>  | <b>7.07</b>  | <b>8.39</b>  | <b>9.72</b>  | <b>11.05</b> | <b>12.37</b> |  |
| 2.29       | 0.16                       | 0.29        | 0.41         | 0.53         | 0.66         | 0.78         | 0.90         | 1.03         | 1.15         |  |
| <b>96</b>  | <b>1.77</b>                | <b>3.09</b> | <b>4.42</b>  | <b>5.74</b>  | <b>7.07</b>  | <b>8.39</b>  | <b>9.72</b>  | <b>11.05</b> | <b>12.37</b> |  |
| 2.44       | 0.16                       | 0.29        | 0.41         | 0.53         | 0.66         | 0.78         | 0.90         | 1.03         | 1.15         |  |
| <b>102</b> | <b>2.12</b>                | <b>3.71</b> | <b>5.30</b>  | <b>6.89</b>  | <b>8.48</b>  | <b>10.07</b> | <b>11.66</b> | <b>13.25</b> | <b>14.84</b> |  |
| 2.59       | 0.20                       | 0.34        | 0.49         | 0.64         | 0.79         | 0.94         | 1.08         | 1.23         | 1.38         |  |
| <b>108</b> | <b>2.12</b>                | <b>3.71</b> | <b>5.30</b>  | <b>6.89</b>  | <b>8.48</b>  | <b>10.07</b> | <b>11.66</b> | <b>13.25</b> | <b>14.84</b> |  |
| 2.74       | 0.20                       | 0.34        | 0.49         | 0.64         | 0.79         | 0.94         | 1.08         | 1.23         | 1.38         |  |
| <b>114</b> | <b>2.47</b>                | <b>4.33</b> | <b>6.18</b>  | <b>8.04</b>  | <b>9.89</b>  | <b>11.75</b> | <b>13.60</b> | <b>15.46</b> | <b>17.31</b> |  |
| 2.90       | 0.23                       | 0.40        | 0.57         | 0.75         | 0.92         | 1.09         | 1.26         | 1.44         | 1.61         |  |
| <b>120</b> | <b>2.47</b>                | <b>4.33</b> | <b>6.18</b>  | <b>8.04</b>  | <b>9.89</b>  | <b>11.75</b> | <b>13.60</b> | <b>15.46</b> | <b>17.31</b> |  |
| 3.05       | 0.23                       | 0.40        | 0.57         | 0.75         | 0.92         | 1.09         | 1.26         | 1.44         | 1.61         |  |
| <b>126</b> | <b>2.47</b>                | <b>4.33</b> | <b>6.18</b>  | <b>8.04</b>  | <b>9.89</b>  | <b>11.75</b> | <b>13.60</b> | <b>15.46</b> | <b>17.31</b> |  |
| 3.20       | 0.23                       | 0.40        | 0.57         | 0.75         | 0.92         | 1.09         | 1.26         | 1.44         | 1.61         |  |
| <b>132</b> | <b>2.83</b>                | <b>4.95</b> | <b>7.07</b>  | <b>9.19</b>  | <b>11.31</b> | <b>13.43</b> | <b>15.55</b> | <b>17.67</b> | <b>19.79</b> |  |
| 3.35       | 0.26                       | 0.46        | 0.66         | 0.85         | 1.05         | 1.25         | 1.44         | 1.64         | 1.84         |  |
| <b>138</b> | <b>2.83</b>                | <b>4.95</b> | <b>7.07</b>  | <b>9.19</b>  | <b>11.31</b> | <b>13.43</b> | <b>15.55</b> | <b>17.67</b> | <b>19.79</b> |  |
| 3.51       | 0.26                       | 0.46        | 0.66         | 0.85         | 1.05         | 1.25         | 1.44         | 1.64         | 1.84         |  |
| <b>144</b> | <b>3.18</b>                | <b>5.57</b> | <b>7.95</b>  | <b>10.34</b> | <b>12.72</b> | <b>15.11</b> | <b>17.49</b> | <b>19.88</b> | <b>22.26</b> |  |
| 3.66       | 0.30                       | 0.52        | 0.74         | 0.96         | 1.18         | 1.40         | 1.62         | 1.85         | 2.07         |  |
| <b>150</b> | <b>3.18</b>                | <b>5.57</b> | <b>7.95</b>  | <b>10.34</b> | <b>12.72</b> | <b>15.11</b> | <b>17.49</b> | <b>19.88</b> | <b>22.26</b> |  |
| 3.81       | 0.30                       | 0.52        | 0.74         | 0.96         | 1.18         | 1.40         | 1.62         | 1.85         | 2.07         |  |
| <b>156</b> | <b>3.18</b>                | <b>5.57</b> | <b>7.95</b>  | <b>10.34</b> | <b>12.72</b> | <b>15.11</b> | <b>17.49</b> | <b>19.88</b> | <b>22.26</b> |  |
| 3.96       | 0.30                       | 0.52        | 0.74         | 0.96         | 1.18         | 1.40         | 1.62         | 1.85         | 2.07         |  |
| <b>162</b> | <b>3.53</b>                | <b>6.18</b> | <b>8.83</b>  | <b>11.48</b> | <b>14.13</b> | <b>16.78</b> | <b>19.43</b> | <b>22.08</b> | <b>24.73</b> |  |
| 4.11       | 0.33                       | 0.57        | 0.82         | 1.07         | 1.31         | 1.56         | 1.81         | 2.05         | 2.30         |  |
| <b>168</b> | <b>3.53</b>                | <b>6.18</b> | <b>8.83</b>  | <b>11.48</b> | <b>14.13</b> | <b>16.78</b> | <b>19.43</b> | <b>22.08</b> | <b>24.73</b> |  |
| 4.27       | 0.33                       | 0.57        | 0.82         | 1.07         | 1.31         | 1.56         | 1.81         | 2.05         | 2.30         |  |
| <b>174</b> | <b>3.89</b>                | <b>6.80</b> | <b>9.72</b>  | <b>12.63</b> | <b>15.55</b> | <b>18.46</b> | <b>21.38</b> | <b>24.29</b> | <b>27.21</b> |  |
| 4.42       | 0.36                       | 0.63        | 0.90         | 1.17         | 1.44         | 1.71         | 1.99         | 2.26         | 2.53         |  |
| <b>180</b> | <b>3.89</b>                | <b>6.80</b> | <b>9.72</b>  | <b>12.63</b> | <b>15.55</b> | <b>18.46</b> | <b>21.38</b> | <b>24.29</b> | <b>27.21</b> |  |
| 4.57       | 0.36                       | 0.63        | 0.90         | 1.17         | 1.44         | 1.71         | 1.99         | 2.26         | 2.53         |  |
| <b>186</b> | <b>3.89</b>                | <b>6.80</b> | <b>9.72</b>  | <b>12.63</b> | <b>15.55</b> | <b>18.46</b> | <b>21.38</b> | <b>24.29</b> | <b>27.21</b> |  |
| 4.72       | 0.36                       | 0.63        | 0.90         | 1.17         | 1.44         | 1.71         | 1.99         | 2.26         | 2.53         |  |
| <b>192</b> | <b>4.24</b>                | <b>7.42</b> | <b>10.60</b> | <b>13.78</b> | <b>16.96</b> | <b>20.14</b> | <b>23.32</b> | <b>26.50</b> | <b>29.68</b> |  |
| 4.88       | 0.39                       | 0.69        | 0.98         | 1.28         | 1.58         | 1.87         | 2.17         | 2.46         | 2.76         |  |
| <b>198</b> | <b>4.24</b>                | <b>7.42</b> | <b>10.60</b> | <b>13.78</b> | <b>16.96</b> | <b>20.14</b> | <b>23.32</b> | <b>26.50</b> | <b>29.68</b> |  |
| 5.03       | 0.39                       | 0.69        | 0.98         | 1.28         | 1.58         | 1.87         | 2.17         | 2.46         | 2.76         |  |
| <b>204</b> | <b>4.59</b>                | <b>8.04</b> | <b>11.48</b> | <b>14.93</b> | <b>18.37</b> | <b>21.82</b> | <b>25.26</b> | <b>28.71</b> | <b>32.15</b> |  |
| 5.18       | 0.43                       | 0.75        | 1.07         | 1.39         | 1.71         | 2.03         | 2.35         | 2.67         | 2.99         |  |

Upper Numerals English Units/Lower Numerals Metric Units