

# SCV501

Storm Class Louver | Vertical Blade | Extruded Aluminum

## Standard Construction

|                             |                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame                       | Heavy gauge extruded 6063-T5 aluminum, 5 in. (127 mm) x 0.081 in. (2 mm) nominal wall thickness                                                                     |
| Blades                      | Vertical rain resistant design, heavy gauge extruded 6063-T5 aluminum, 0.063 in. (2 mm) nominal wall thickness, positioned on approximately 1.5 in. (38 mm) centers |
| Louver Depth                | 5 in. (127 mm)                                                                                                                                                      |
| Construction                | Mechanically fastened                                                                                                                                               |
| Finish                      | Mill                                                                                                                                                                |
| Minimum Size                | 12 in. W x 12 in. H (305 mm W x 305 mm H)                                                                                                                           |
| Maximum Single Section Size | 120 in. W x 120 in. H (3048 mm W x 3048 mm H)<br>Limited to 60 sq. ft. (5.6 sq. m)                                                                                  |
| Wind Load                   | 25 PSF (1.2 kPa)                                                                                                                                                    |

## Performance Ratings



Airolite certifies that the SCV501 louvers shown herein are 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 Water Penetration, Air Performance, and Wind-Driven Rain ratings.

Louvers were tested in accordance with AMCA Standard 500-L.

### Performance of 48 in. x 48 in. (1219 mm x 1219 mm) Louver

|                                                           |                                      |
|-----------------------------------------------------------|--------------------------------------|
| Free Area                                                 |                                      |
| Area                                                      | 8.71 sq. ft. (0.809 sq. m)           |
| Percent                                                   | 54.4%                                |
| Performance at Beginning Point of Water Penetration       |                                      |
| Free Area Velocity                                        | above 1250 fpm (6.350 m/s)           |
| Max Intake Volume                                         | 10,888 cfm (5.138 m <sup>3</sup> /s) |
| Performance at 6,000 CFM (2.832 m <sup>3</sup> /s) Intake |                                      |
| Pressure Drop                                             | 0.079 in. wg (0.020 kPa)             |

## Document Links

[SCV501 Specification](#)

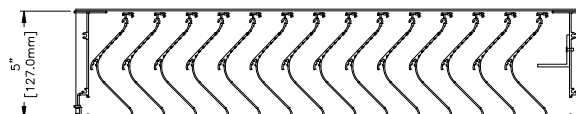
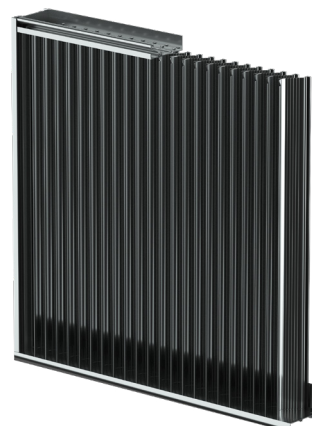
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## Options and Accessories

- [Bird Screen](#)
- [Blank Off Panels](#)
- [Extended Sill](#)
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- [Flange Frame](#)
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- [Insect Screen](#)
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## Product Details

### SCV501 Standard Details

Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Airolite unless indicated otherwise by Airolite. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Airolite.

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# SCV501

Storm Class Louver | Vertical Blade | Extruded Aluminum

## Free Area Chart

Free Area Chart shows free area in square feet and square meters.

| Louver Height Inches (Meters) | Louver Width in Inches (Meters) |             |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|-------------------------------|---------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                               | 12                              | 18          | 24           | 30           | 36           | 42           | 48           | 54           | 60           | 66           | 72           | 78           | 84           | 90           | 96           | 102          | 108          | 114          | 120          |
|                               | 0.30                            | 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         | 2.59         | 2.74         | 2.90         | 3.05         |
| <b>12</b>                     | <b>0.24</b>                     | <b>0.43</b> | <b>0.62</b>  | <b>0.81</b>  | <b>1.00</b>  | <b>1.19</b>  | <b>1.38</b>  | <b>1.56</b>  | <b>1.75</b>  | <b>1.94</b>  | <b>2.13</b>  | <b>2.32</b>  | <b>2.51</b>  | <b>2.70</b>  | <b>2.88</b>  | <b>3.07</b>  | <b>3.26</b>  | <b>3.45</b>  | <b>3.64</b>  |
| 0.30                          | 0.02                            | 0.04        | 0.06         | 0.08         | 0.09         | 0.11         | 0.13         | 0.14         | 0.16         | 0.18         | 0.20         | 0.22         | 0.23         | 0.25         | 0.27         | 0.29         | 0.30         | 0.32         | 0.34         |
| <b>18</b>                     | <b>0.46</b>                     | <b>0.82</b> | <b>1.17</b>  | <b>1.53</b>  | <b>1.89</b>  | <b>2.24</b>  | <b>2.60</b>  | <b>2.95</b>  | <b>3.31</b>  | <b>3.67</b>  | <b>4.02</b>  | <b>4.38</b>  | <b>4.74</b>  | <b>5.09</b>  | <b>5.45</b>  | <b>5.80</b>  | <b>6.16</b>  | <b>6.52</b>  | <b>6.87</b>  |
| 0.46                          | 0.04                            | 0.08        | 0.11         | 0.14         | 0.18         | 0.21         | 0.24         | 0.27         | 0.31         | 0.34         | 0.37         | 0.41         | 0.44         | 0.47         | 0.51         | 0.54         | 0.57         | 0.61         | 0.64         |
| <b>24</b>                     | <b>0.68</b>                     | <b>1.20</b> | <b>1.72</b>  | <b>2.25</b>  | <b>2.77</b>  | <b>3.30</b>  | <b>3.82</b>  | <b>4.34</b>  | <b>4.87</b>  | <b>5.39</b>  | <b>5.92</b>  | <b>6.44</b>  | <b>6.96</b>  | <b>7.49</b>  | <b>8.01</b>  | <b>8.54</b>  | <b>9.06</b>  | <b>9.58</b>  | <b>10.11</b> |
| 0.61                          | 0.06                            | 0.11        | 0.16         | 0.21         | 0.26         | 0.31         | 0.35         | 0.40         | 0.45         | 0.50         | 0.55         | 0.60         | 0.65         | 0.70         | 0.74         | 0.79         | 0.84         | 0.89         | 0.94         |
| <b>30</b>                     | <b>0.89</b>                     | <b>1.58</b> | <b>2.28</b>  | <b>2.97</b>  | <b>3.66</b>  | <b>4.35</b>  | <b>5.04</b>  | <b>5.73</b>  | <b>6.43</b>  | <b>7.12</b>  | <b>7.81</b>  | <b>8.50</b>  | <b>9.19</b>  | <b>9.88</b>  | <b>10.58</b> | <b>11.27</b> | <b>11.96</b> | <b>12.65</b> | <b>13.34</b> |
| 0.76                          | 0.08                            | 0.15        | 0.21         | 0.28         | 0.34         | 0.40         | 0.47         | 0.53         | 0.60         | 0.66         | 0.73         | 0.79         | 0.85         | 0.92         | 0.98         | 1.05         | 1.11         | 1.18         | 1.24         |
| <b>36</b>                     | <b>1.11</b>                     | <b>1.97</b> | <b>2.83</b>  | <b>3.69</b>  | <b>4.55</b>  | <b>5.41</b>  | <b>6.27</b>  | <b>7.12</b>  | <b>7.98</b>  | <b>8.84</b>  | <b>9.70</b>  | <b>10.56</b> | <b>11.42</b> | <b>12.28</b> | <b>13.14</b> | <b>14.00</b> | <b>14.86</b> | <b>15.72</b> | <b>16.58</b> |
| 0.91                          | 0.10                            | 0.18        | 0.26         | 0.34         | 0.42         | 0.50         | 0.58         | 0.66         | 0.74         | 0.82         | 0.90         | 0.98         | 1.06         | 1.14         | 1.22         | 1.30         | 1.38         | 1.46         | 1.54         |
| <b>42</b>                     | <b>1.33</b>                     | <b>2.35</b> | <b>3.38</b>  | <b>4.41</b>  | <b>5.43</b>  | <b>6.46</b>  | <b>7.49</b>  | <b>8.51</b>  | <b>9.54</b>  | <b>10.57</b> | <b>11.60</b> | <b>12.62</b> | <b>13.65</b> | <b>14.68</b> | <b>15.70</b> | <b>16.73</b> | <b>17.76</b> | <b>18.78</b> | <b>19.81</b> |
| 1.07                          | 0.12                            | 0.22        | 0.31         | 0.41         | 0.50         | 0.60         | 0.70         | 0.79         | 0.89         | 0.98         | 1.08         | 1.17         | 1.27         | 1.36         | 1.46         | 1.55         | 1.65         | 1.74         | 1.84         |
| <b>48</b>                     | <b>1.54</b>                     | <b>2.74</b> | <b>3.93</b>  | <b>5.13</b>  | <b>6.32</b>  | <b>7.52</b>  | <b>8.71</b>  | <b>9.90</b>  | <b>11.10</b> | <b>12.29</b> | <b>13.49</b> | <b>14.68</b> | <b>15.88</b> | <b>17.07</b> | <b>18.27</b> | <b>19.46</b> | <b>20.66</b> | <b>21.85</b> | <b>23.05</b> |
| 1.22                          | 0.14                            | 0.25        | 0.37         | 0.48         | 0.59         | 0.70         | 0.81         | 0.92         | 1.03         | 1.14         | 1.25         | 1.36         | 1.48         | 1.59         | 1.70         | 1.81         | 1.92         | 2.03         | 2.14         |
| <b>54</b>                     | <b>1.70</b>                     | <b>3.02</b> | <b>4.35</b>  | <b>5.67</b>  | <b>6.99</b>  | <b>8.31</b>  | <b>9.63</b>  | <b>10.95</b> | <b>12.27</b> | <b>13.59</b> | <b>14.91</b> | <b>16.23</b> | <b>17.55</b> | <b>18.87</b> | <b>20.19</b> | <b>21.51</b> | <b>22.83</b> | <b>24.15</b> | <b>25.47</b> |
| 1.37                          | 0.16                            | 0.28        | 0.40         | 0.53         | 0.65         | 0.77         | 0.89         | 1.02         | 1.14         | 1.26         | 1.39         | 1.51         | 1.63         | 1.75         | 1.88         | 2.00         | 2.12         | 2.24         | 2.37         |
| <b>60</b>                     | <b>1.92</b>                     | <b>3.41</b> | <b>4.90</b>  | <b>6.39</b>  | <b>7.87</b>  | <b>9.36</b>  | <b>10.85</b> | <b>12.34</b> | <b>13.83</b> | <b>15.31</b> | <b>16.80</b> | <b>18.29</b> | <b>19.78</b> | <b>21.27</b> | <b>22.75</b> | <b>24.24</b> | <b>25.73</b> | <b>27.22</b> | <b>28.71</b> |
| 1.52                          | 0.18                            | 0.32        | 0.46         | 0.59         | 0.73         | 0.87         | 1.01         | 1.15         | 1.28         | 1.42         | 1.56         | 1.70         | 1.84         | 1.98         | 2.11         | 2.25         | 2.39         | 2.53         | 2.67         |
| <b>66</b>                     | <b>2.14</b>                     | <b>3.79</b> | <b>5.45</b>  | <b>7.10</b>  | <b>8.76</b>  | <b>10.42</b> | <b>12.07</b> | <b>13.73</b> | <b>15.38</b> | <b>17.04</b> | <b>18.69</b> | <b>20.35</b> | <b>22.01</b> | <b>23.66</b> | <b>25.32</b> | <b>26.97</b> | <b>28.63</b> | <b>30.28</b> | <b>31.94</b> |
| 1.68                          | 0.20                            | 0.35        | 0.51         | 0.66         | 0.81         | 0.97         | 1.12         | 1.28         | 1.43         | 1.58         | 1.74         | 1.89         | 2.04         | 2.20         | 2.35         | 2.51         | 2.66         | 2.81         | 2.97         |
| <b>72</b>                     | <b>2.35</b>                     | <b>4.18</b> | <b>6.00</b>  | <b>7.82</b>  | <b>9.65</b>  | <b>11.47</b> | <b>13.29</b> | <b>15.12</b> | <b>16.94</b> | <b>18.76</b> | <b>20.59</b> | <b>22.41</b> | <b>24.23</b> | <b>26.06</b> | <b>27.88</b> | <b>29.70</b> | <b>31.53</b> | <b>33.35</b> | <b>35.17</b> |
| 1.83                          | 0.22                            | 0.39        | 0.56         | 0.73         | 0.90         | 1.07         | 1.23         | 1.40         | 1.57         | 1.74         | 1.91         | 2.08         | 2.25         | 2.42         | 2.59         | 2.76         | 2.93         | 3.10         | 3.27         |
| <b>78</b>                     | <b>2.57</b>                     | <b>4.56</b> | <b>6.55</b>  | <b>8.54</b>  | <b>10.53</b> | <b>12.53</b> | <b>14.52</b> | <b>16.51</b> | <b>18.50</b> | <b>20.49</b> | <b>22.48</b> |              |              |              |              |              |              |              |              |
| 1.98                          | 0.24                            | 0.42        | 0.61         | 0.79         | 0.98         | 1.16         | 1.35         | 1.53         | 1.72         | 1.90         | 2.09         |              |              |              |              |              |              |              |              |
| <b>84</b>                     | <b>2.79</b>                     | <b>4.95</b> | <b>7.10</b>  | <b>9.26</b>  | <b>11.42</b> | <b>13.58</b> | <b>15.74</b> | <b>17.90</b> | <b>20.06</b> | <b>22.22</b> | <b>24.37</b> |              |              |              |              |              |              |              |              |
| 2.13                          | 0.26                            | 0.46        | 0.66         | 0.86         | 1.06         | 1.26         | 1.46         | 1.66         | 1.86         | 2.06         | 2.26         |              |              |              |              |              |              |              |              |
| <b>90</b>                     | <b>3.00</b>                     | <b>5.33</b> | <b>7.66</b>  | <b>9.98</b>  | <b>12.31</b> | <b>14.64</b> | <b>16.96</b> | <b>19.29</b> | <b>21.61</b> | <b>23.94</b> | <b>26.27</b> |              |              |              |              |              |              |              |              |
| 2.29                          | 0.28                            | 0.50        | 0.71         | 0.93         | 1.14         | 1.36         | 1.58         | 1.79         | 2.01         | 2.22         | 2.44         |              |              |              |              |              |              |              |              |
| <b>96</b>                     | <b>3.22</b>                     | <b>5.71</b> | <b>8.21</b>  | <b>10.70</b> | <b>13.20</b> | <b>15.69</b> | <b>18.18</b> | <b>20.68</b> | <b>23.17</b> | <b>25.67</b> | <b>28.16</b> |              |              |              |              |              |              |              |              |
| 2.44                          | 0.30                            | 0.53        | 0.76         | 0.99         | 1.23         | 1.46         | 1.69         | 1.92         | 2.15         | 2.38         | 2.62         |              |              |              |              |              |              |              |              |
| <b>102</b>                    | <b>3.38</b>                     | <b>6.00</b> | <b>8.62</b>  | <b>11.24</b> | <b>13.86</b> | <b>16.48</b> | <b>19.10</b> | <b>21.72</b> | <b>24.34</b> | <b>26.96</b> | <b>29.58</b> |              |              |              |              |              |              |              |              |
| 2.59                          | 0.31                            | 0.56        | 0.80         | 1.04         | 1.29         | 1.53         | 1.77         | 2.02         | 2.26         | 2.50         | 2.75         |              |              |              |              |              |              |              |              |
| <b>108</b>                    | <b>3.60</b>                     | <b>6.39</b> | <b>9.17</b>  | <b>11.96</b> | <b>14.75</b> | <b>17.54</b> | <b>20.32</b> | <b>23.11</b> | <b>25.90</b> | <b>28.69</b> | <b>31.47</b> |              |              |              |              |              |              |              |              |
| 2.74                          | 0.33                            | 0.59        | 0.85         | 1.11         | 1.37         | 1.63         | 1.89         | 2.15         | 2.41         | 2.67         | 2.92         |              |              |              |              |              |              |              |              |
| <b>114</b>                    | <b>3.81</b>                     | <b>6.77</b> | <b>9.73</b>  | <b>12.68</b> | <b>15.64</b> | <b>18.59</b> | <b>21.55</b> | <b>24.50</b> | <b>27.46</b> | <b>30.41</b> | <b>33.37</b> |              |              |              |              |              |              |              |              |
| 2.90                          | 0.35                            | 0.63        | 0.90         | 1.18         | 1.45         | 1.73         | 2.00         | 2.28         | 2.55         | 2.83         | 3.10         |              |              |              |              |              |              |              |              |
| <b>120</b>                    | <b>4.03</b>                     | <b>7.15</b> | <b>10.28</b> | <b>13.40</b> | <b>16.52</b> | <b>19.65</b> | <b>22.77</b> | <b>25.89</b> | <b>29.01</b> | <b>32.14</b> | <b>35.26</b> |              |              |              |              |              |              |              |              |
| 3.05                          | 0.37                            | 0.66        | 0.96         | 1.24         | 1.53         | 1.83         | 2.12         | 2.41         | 2.70         | 2.99         | 3.28         |              |              |              |              |              |              |              |              |

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Storm Class Louver | Vertical Blade | Extruded Aluminum

## Core Area Chart

Core Area Chart shows core area in square feet and square meters.

| Louver Height Inches (Meters) | Louver Width in Inches (Meters) |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|-------------------------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                               | 12                              | 18           | 24           | 30           | 36           | 42           | 48           | 54           | 60           | 66           | 72           | 78           | 84           | 90           | 96           | 102          | 108          | 114          | 120          |
|                               | 0.30                            | 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         | 2.59         | 2.74         | 2.90         | 3.05         |
| <b>12</b>                     | <b>0.66</b>                     | <b>1.04</b>  | <b>1.43</b>  | <b>1.81</b>  | <b>2.20</b>  | <b>2.59</b>  | <b>2.97</b>  | <b>3.36</b>  | <b>3.74</b>  | <b>4.13</b>  | <b>4.51</b>  | <b>4.90</b>  | <b>5.28</b>  | <b>5.67</b>  | <b>6.05</b>  | <b>6.44</b>  | <b>6.83</b>  | <b>7.21</b>  | <b>7.60</b>  |
| 0.30                          | 0.06                            | 0.10         | 0.13         | 0.17         | 0.20         | 0.24         | 0.28         | 0.31         | 0.35         | 0.38         | 0.42         | 0.46         | 0.49         | 0.53         | 0.56         | 0.60         | 0.63         | 0.67         | 0.71         |
| <b>18</b>                     | <b>1.09</b>                     | <b>1.72</b>  | <b>2.36</b>  | <b>2.99</b>  | <b>3.63</b>  | <b>4.26</b>  | <b>4.90</b>  | <b>5.53</b>  | <b>6.17</b>  | <b>6.80</b>  | <b>7.44</b>  | <b>8.08</b>  | <b>8.71</b>  | <b>9.35</b>  | <b>9.98</b>  | <b>10.62</b> | <b>11.25</b> | <b>11.89</b> | <b>12.52</b> |
| 0.46                          | 0.10                            | 0.16         | 0.22         | 0.28         | 0.34         | 0.40         | 0.46         | 0.51         | 0.57         | 0.63         | 0.69         | 0.75         | 0.81         | 0.87         | 0.93         | 0.99         | 1.05         | 1.10         | 1.16         |
| <b>24</b>                     | <b>1.51</b>                     | <b>2.40</b>  | <b>3.28</b>  | <b>4.17</b>  | <b>5.05</b>  | <b>5.94</b>  | <b>6.83</b>  | <b>7.71</b>  | <b>8.60</b>  | <b>9.48</b>  | <b>10.37</b> | <b>11.25</b> | <b>12.14</b> | <b>13.02</b> | <b>13.91</b> | <b>14.79</b> | <b>15.68</b> | <b>16.56</b> | <b>17.45</b> |
| 0.61                          | 0.14                            | 0.22         | 0.30         | 0.39         | 0.47         | 0.55         | 0.63         | 0.72         | 0.80         | 0.88         | 0.96         | 1.05         | 1.13         | 1.21         | 1.29         | 1.37         | 1.46         | 1.54         | 1.62         |
| <b>30</b>                     | <b>1.94</b>                     | <b>3.08</b>  | <b>4.21</b>  | <b>5.35</b>  | <b>6.48</b>  | <b>7.62</b>  | <b>8.75</b>  | <b>9.89</b>  | <b>11.02</b> | <b>12.16</b> | <b>13.29</b> | <b>14.43</b> | <b>15.56</b> | <b>16.70</b> | <b>17.84</b> | <b>18.97</b> | <b>20.11</b> | <b>21.24</b> | <b>22.38</b> |
| 0.76                          | 0.18                            | 0.29         | 0.39         | 0.50         | 0.60         | 0.71         | 0.81         | 0.92         | 1.02         | 1.13         | 1.23         | 1.34         | 1.45         | 1.55         | 1.66         | 1.76         | 1.87         | 1.97         | 2.08         |
| <b>36</b>                     | <b>2.37</b>                     | <b>3.75</b>  | <b>5.14</b>  | <b>6.52</b>  | <b>7.91</b>  | <b>9.29</b>  | <b>10.68</b> | <b>12.06</b> | <b>13.45</b> | <b>14.84</b> | <b>16.22</b> | <b>17.61</b> | <b>18.99</b> | <b>20.38</b> | <b>21.76</b> | <b>23.15</b> | <b>24.53</b> | <b>25.92</b> | <b>27.30</b> |
| 0.91                          | 0.22                            | 0.35         | 0.48         | 0.61         | 0.73         | 0.86         | 0.99         | 1.12         | 1.25         | 1.38         | 1.51         | 1.64         | 1.76         | 1.89         | 2.02         | 2.15         | 2.28         | 2.41         | 2.54         |
| <b>42</b>                     | <b>2.79</b>                     | <b>4.43</b>  | <b>6.06</b>  | <b>7.70</b>  | <b>9.34</b>  | <b>10.97</b> | <b>12.61</b> | <b>14.24</b> | <b>15.88</b> | <b>17.51</b> | <b>19.15</b> | <b>20.78</b> | <b>22.42</b> | <b>24.05</b> | <b>25.69</b> | <b>27.33</b> | <b>28.96</b> | <b>30.60</b> | <b>32.23</b> |
| 1.07                          | 0.26                            | 0.41         | 0.56         | 0.72         | 0.87         | 1.02         | 1.17         | 1.32         | 1.48         | 1.63         | 1.78         | 1.93         | 2.08         | 2.23         | 2.39         | 2.54         | 2.69         | 2.84         | 2.99         |
| <b>48</b>                     | <b>3.22</b>                     | <b>5.11</b>  | <b>6.99</b>  | <b>8.88</b>  | <b>10.76</b> | <b>12.65</b> | <b>14.53</b> | <b>16.42</b> | <b>18.30</b> | <b>20.19</b> | <b>22.08</b> | <b>23.96</b> | <b>25.85</b> | <b>27.73</b> | <b>29.62</b> | <b>31.50</b> | <b>33.39</b> | <b>35.27</b> | <b>37.16</b> |
| 1.22                          | 0.30                            | 0.47         | 0.65         | 0.82         | 1.00         | 1.18         | 1.35         | 1.53         | 1.70         | 1.88         | 2.05         | 2.23         | 2.40         | 2.58         | 2.75         | 2.93         | 3.10         | 3.28         | 3.45         |
| <b>54</b>                     | <b>3.65</b>                     | <b>5.78</b>  | <b>7.92</b>  | <b>10.05</b> | <b>12.19</b> | <b>14.33</b> | <b>16.46</b> | <b>18.60</b> | <b>20.73</b> | <b>22.87</b> | <b>25.00</b> | <b>27.14</b> | <b>29.27</b> | <b>31.41</b> | <b>33.54</b> | <b>35.68</b> | <b>37.81</b> | <b>39.95</b> | <b>42.09</b> |
| 1.37                          | 0.34                            | 0.54         | 0.74         | 0.93         | 1.13         | 1.33         | 1.53         | 1.73         | 1.93         | 2.12         | 2.32         | 2.52         | 2.72         | 2.92         | 3.12         | 3.31         | 3.51         | 3.71         | 3.91         |
| <b>60</b>                     | <b>4.08</b>                     | <b>6.46</b>  | <b>8.85</b>  | <b>11.23</b> | <b>13.62</b> | <b>16.00</b> | <b>18.39</b> | <b>20.77</b> | <b>23.16</b> | <b>25.54</b> | <b>27.93</b> | <b>30.31</b> | <b>32.70</b> | <b>35.09</b> | <b>37.47</b> | <b>39.86</b> | <b>42.24</b> | <b>44.63</b> | <b>47.01</b> |
| 1.52                          | 0.38                            | 0.60         | 0.82         | 1.04         | 1.27         | 1.49         | 1.71         | 1.93         | 2.15         | 2.37         | 2.59         | 2.82         | 3.04         | 3.26         | 3.48         | 3.70         | 3.92         | 4.15         | 4.37         |
| <b>66</b>                     | <b>4.50</b>                     | <b>7.14</b>  | <b>9.77</b>  | <b>12.41</b> | <b>15.04</b> | <b>17.68</b> | <b>20.31</b> | <b>22.95</b> | <b>25.59</b> | <b>28.22</b> | <b>30.86</b> | <b>33.49</b> | <b>36.13</b> | <b>38.76</b> | <b>41.40</b> | <b>44.03</b> | <b>46.67</b> | <b>49.30</b> | <b>51.94</b> |
| 1.68                          | 0.42                            | 0.66         | 0.91         | 1.15         | 1.40         | 1.64         | 1.89         | 2.13         | 2.38         | 2.62         | 2.87         | 3.11         | 3.36         | 3.60         | 3.85         | 4.09         | 4.34         | 4.58         | 4.83         |
| <b>72</b>                     | <b>4.93</b>                     | <b>7.81</b>  | <b>10.70</b> | <b>13.59</b> | <b>16.47</b> | <b>19.36</b> | <b>22.24</b> | <b>25.13</b> | <b>28.01</b> | <b>30.90</b> | <b>33.78</b> | <b>36.67</b> | <b>39.55</b> | <b>42.44</b> | <b>45.33</b> | <b>48.21</b> | <b>51.10</b> | <b>53.98</b> | <b>56.87</b> |
| 1.83                          | 0.46                            | 0.73         | 0.99         | 1.26         | 1.53         | 1.80         | 2.07         | 2.33         | 2.60         | 2.87         | 3.14         | 3.41         | 3.67         | 3.94         | 4.21         | 4.48         | 4.75         | 5.01         | 5.28         |
| <b>78</b>                     | <b>5.36</b>                     | <b>8.49</b>  | <b>11.63</b> | <b>14.76</b> | <b>17.90</b> | <b>21.03</b> | <b>24.17</b> | <b>27.30</b> | <b>30.44</b> | <b>33.58</b> | <b>36.71</b> |              |              |              |              |              |              |              |              |
| 1.98                          | 0.50                            | 0.79         | 1.08         | 1.37         | 1.66         | 1.95         | 2.25         | 2.54         | 2.83         | 3.12         | 3.41         |              |              |              |              |              |              |              |              |
| <b>84</b>                     | <b>5.78</b>                     | <b>9.17</b>  | <b>12.55</b> | <b>15.94</b> | <b>19.33</b> | <b>22.71</b> | <b>26.10</b> | <b>29.48</b> | <b>32.87</b> | <b>36.25</b> | <b>39.64</b> |              |              |              |              |              |              |              |              |
| 2.13                          | 0.54                            | 0.85         | 1.17         | 1.48         | 1.80         | 2.11         | 2.42         | 2.74         | 3.05         | 3.37         | 3.68         |              |              |              |              |              |              |              |              |
| <b>90</b>                     | <b>6.21</b>                     | <b>9.85</b>  | <b>13.48</b> | <b>17.12</b> | <b>20.75</b> | <b>24.39</b> | <b>28.02</b> | <b>31.66</b> | <b>35.29</b> | <b>38.93</b> | <b>42.56</b> |              |              |              |              |              |              |              |              |
| 2.29                          | 0.58                            | 0.92         | 1.25         | 1.59         | 1.93         | 2.27         | 2.60         | 2.94         | 3.28         | 3.62         | 3.95         |              |              |              |              |              |              |              |              |
| <b>96</b>                     | <b>6.64</b>                     | <b>10.52</b> | <b>14.41</b> | <b>18.29</b> | <b>22.18</b> | <b>26.06</b> | <b>29.95</b> | <b>33.84</b> | <b>37.72</b> | <b>41.61</b> | <b>45.49</b> |              |              |              |              |              |              |              |              |
| 2.44                          | 0.62                            | 0.98         | 1.34         | 1.70         | 2.06         | 2.42         | 2.78         | 3.14         | 3.50         | 3.87         | 4.23         |              |              |              |              |              |              |              |              |
| <b>102</b>                    | <b>7.06</b>                     | <b>11.20</b> | <b>15.34</b> | <b>19.47</b> | <b>23.61</b> | <b>27.74</b> | <b>31.88</b> | <b>36.01</b> | <b>40.15</b> | <b>44.28</b> | <b>48.42</b> |              |              |              |              |              |              |              |              |
| 2.59                          | 0.66                            | 1.04         | 1.43         | 1.81         | 2.19         | 2.58         | 2.96         | 3.35         | 3.73         | 4.11         | 4.50         |              |              |              |              |              |              |              |              |
| <b>108</b>                    | <b>7.49</b>                     | <b>11.88</b> | <b>16.26</b> | <b>20.65</b> | <b>25.03</b> | <b>29.42</b> | <b>33.80</b> | <b>38.19</b> | <b>42.58</b> | <b>46.96</b> | <b>51.35</b> |              |              |              |              |              |              |              |              |
| 2.74                          | 0.70                            | 1.10         | 1.51         | 1.92         | 2.33         | 2.73         | 3.14         | 3.55         | 3.96         | 4.36         | 4.77         |              |              |              |              |              |              |              |              |
| <b>114</b>                    | <b>7.92</b>                     | <b>12.55</b> | <b>17.19</b> | <b>21.83</b> | <b>26.46</b> | <b>31.10</b> | <b>35.73</b> | <b>40.37</b> | <b>45.00</b> | <b>49.64</b> | <b>54.27</b> |              |              |              |              |              |              |              |              |
| 2.90                          | 0.74                            | 1.17         | 1.60         | 2.03         | 2.46         | 2.89         | 3.32         | 3.75         | 4.18         | 4.61         | 5.04         |              |              |              |              |              |              |              |              |
| <b>120</b>                    | <b>8.35</b>                     | <b>13.23</b> | <b>18.12</b> | <b>23.00</b> | <b>27.89</b> | <b>32.77</b> | <b>37.66</b> | <b>42.54</b> | <b>47.43</b> | <b>52.31</b> | <b>57.20</b> |              |              |              |              |              |              |              |              |
| 3.05                          | 0.78                            | 1.23         | 1.68         | 2.14         | 2.59         | 3.04         | 3.50         | 3.95         | 4.41         | 4.86         | 5.31         |              |              |              |              |              |              |              |              |

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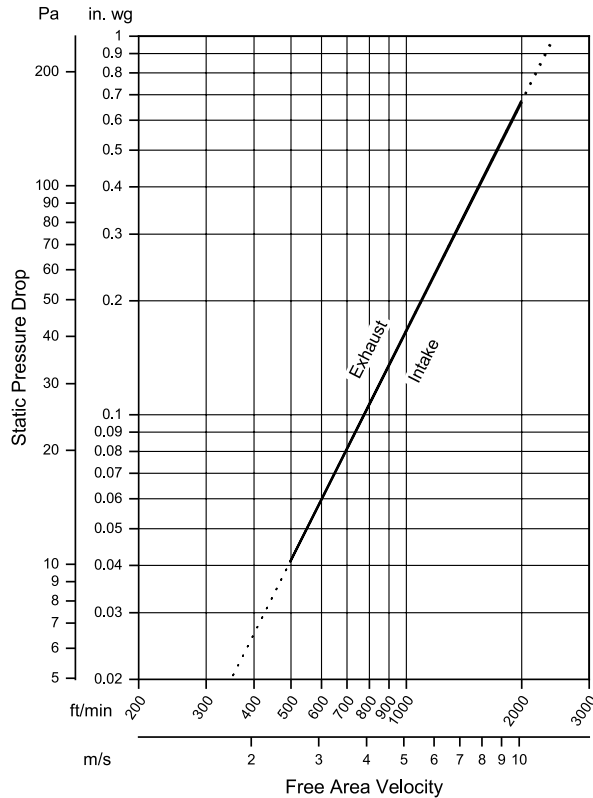
# SCV501

Storm Class Louver | Vertical Blade | Extruded Aluminum

## Airflow Resistance

Standard Air - 0.075 lb/ft<sup>3</sup> (1.2 kg/m<sup>3</sup>)

Test size 48 in. x 48 in. (1219 mm x 1219 mm)



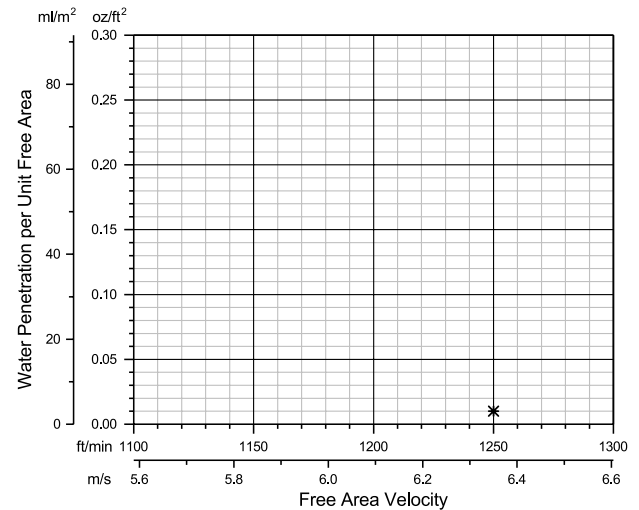
Model SCV501 resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)

## Water Penetration

Standard Air - 0.075 lb/ft<sup>3</sup> (1.2 kg/m<sup>3</sup>)

Test size 48 in. x 48 in. (1219 mm x 1219 mm)

Test duration of 15 min.



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. (3 g) of water (penetration) per sq. ft. (m<sup>2</sup>) of louver free area.

**\*The beginning point of water penetration for Model SCV501 is above 1250 fpm (6.350 m/s) free area velocity.**

These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

## Wind-Driven Rain Performance

| 3 in./hr. (75 mm/hr.) Rainfall Rate & 29 mph (13 m/s) Wind Velocity |                                              |                                   |                                  | 8 in./hr. (203 mm/hr.) Rainfall Rate & 50 mph (22.4 m/s) Wind Velocity |                                              |                                   |                                  |
|---------------------------------------------------------------------|----------------------------------------------|-----------------------------------|----------------------------------|------------------------------------------------------------------------|----------------------------------------------|-----------------------------------|----------------------------------|
| Ventilation Air Core Velocity fpm (m/s)                             | Ventilation Air Free Area Velocity fpm (m/s) | Water Penetration Effectiveness % | Water Penetration Classification | Ventilation Air Core Velocity fpm (m/s)                                | Ventilation Air Free Area Velocity fpm (m/s) | Water Penetration Effectiveness % | Water Penetration Classification |
| 0 (0.0)                                                             | 0 (0.0)                                      | 100                               | A                                | 0 (0.0)                                                                | 0 (0.0)                                      |                                   | A                                |
| 98 (0.5)                                                            | 167 (0.8)                                    | 100                               | A                                | 98 (0.5)                                                               | 167 (0.8)                                    |                                   | A                                |
| 197 (1.0)                                                           | 335 (1.7)                                    | 100                               | A                                | 197 (1.0)                                                              | 335 (1.7)                                    |                                   | A                                |
| 295 (1.5)                                                           | 502 (2.6)                                    | 100                               | A                                | 295 (1.5)                                                              | 502 (2.6)                                    |                                   | A                                |
| 394 (2.0)                                                           | 670 (3.4)                                    | 100                               | A                                | 394 (2.0)                                                              | 670 (3.4)                                    |                                   | A                                |
| 492 (2.5)                                                           | 837 (4.3)                                    | 100                               | A                                | 492 (2.5)                                                              | 837 (4.3)                                    |                                   | A                                |
| 591 (3.0)                                                           | 1005 (5.1)                                   | 100                               | A                                | 591 (3.0)                                                              | 1005 (5.1)                                   |                                   | A                                |
| 689 (3.5)                                                           | 1172 (6.0)                                   | 100                               | A                                | 690 (3.5)                                                              | 1173 (6.0)                                   | 99.7                              | A                                |
| 787 (4.0)                                                           | 1338 (6.8)                                   | 100                               | A                                | 787 (4.0)                                                              | 1338 (6.8)                                   | 99.5                              | A                                |
| 886 (4.5)                                                           | 1507 (7.7)                                   | 100                               | A                                | 882 (4.5)                                                              | 1500 (7.6)                                   | 99.3                              | A                                |
| 991 (5.0)                                                           | 1685 (8.6)                                   | 100                               | A                                | 973 (4.9)                                                              | 1655 (8.4)                                   | 98.7                              | B                                |

Water penetration classification ratings are based on the amount of simulated rain that penetrates the louver during a specific rainfall rate, wind velocity, and intake velocity. Ratings are based on a 39.4 in. x 39.4 in. (1 m x 1 m) core size.

| Wind-Driven Rain Penetration Classes |               |
|--------------------------------------|---------------|
| Class                                | Effectiveness |
| A                                    | 1 to 0.99     |
| B                                    | 0.989 to 0.95 |
| C                                    | 0.949 to 0.80 |
| D                                    | Below 0.80    |

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