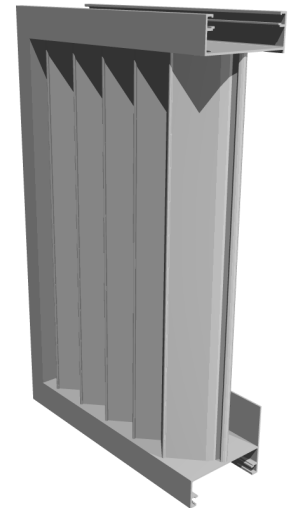


Construction Specialties Inc. certifies that Model RS-4605 shown. Herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to wind driven rain and air performance ratings only.

**DESIGN DATA:**

- To maintain a **CLASS A (99%) effectiveness rating** with a 29.1 mph wind speed an rainfall rate of 3 in/hr
- Maximum intake core velocity 3.4 m/s (678 FPM)
  - Maximum intake free area velocity 6.0 m/s (1142 FPM)
  - Intake pressure drop 101.8 Pa (0.41 in. H<sub>2</sub>O)
  - Intake capacity 3.5 m<sup>3</sup>/s (7302 CFM)



\*louver tested with 1m<sup>2</sup> core area, mill finish and no screen

**SUGGESTED SPECIFICATIONS:**

**GENERAL:** Furnish and install where indicated on the drawings C/S 4" (101.6 mm) STORM RESISTANT FIXED VERTICAL LOUVER **MODEL RS-4605** as manufactured by Construction Specialties, Inc., Cranford, NJ. Complete details shall be submitted to the architect for approval prior to fabrication. Supplier must be a member of AMCA or BSRIA

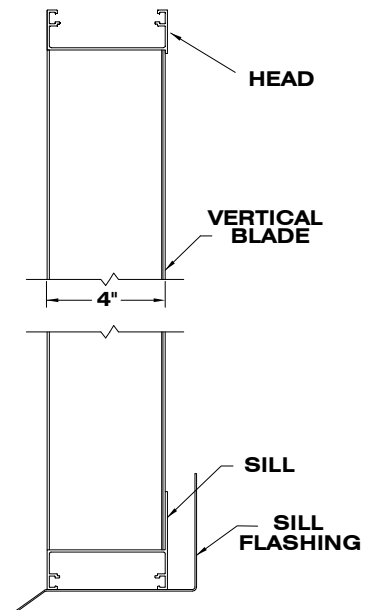
**MATERIAL:** Frames and blades to be fabricated from 6063-T6 aluminum alloy. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 4" (101.6 mm) high by full depth sill flashing formed from minimum 0.050" (1.27 mm) thick aluminum. Sill flashing to have welded side panels. Louvers and sill flashing to be installed in accordance with the manufacturer's recommended procedures to ensure complete water integrity performance of louver system. All louvers to be furnished with 5/8" (15.87 mm) flattened expanded mesh, aluminum bird screen with a .055" (1.4 mm) thick extruded aluminum frame.

**STRUCTURAL DESIGN:** Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than \_\_\_\_psf. (kPa). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self supporting units up to a maximum of 5' (1524 mm) wide by 8' (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.)

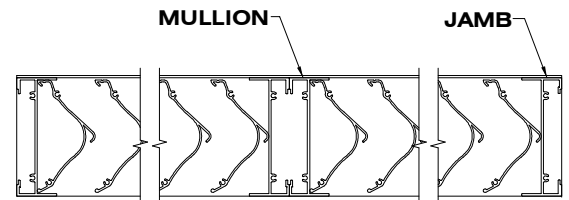
**FINISH:** All louvers shall be finished with C/S Powder Coat, a coating to be 1.5 to 3 mil. thick full strength **100% resin Fluoropolymer coating. Finish to allow zero VOCs** to be emitted into facility of application. Finish to adhere to a 4H Hardness rating. All finishing procedures shall be one continuous operation in the plant of the manufacturer. **The coating shall meet or exceed all requirements of AAMA specification 2605** "Voluntary Specification for High Performance Organic Coatings on Architectural extrusions and Panels." The louver manufacturer shall supply an industry standard **20-year limited warranty against failure or excessive fading** of the Fluoropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.

**WIND DRIVEN RAIN PERFORMANCE:**

The louver test was based on a 39.370" (1.00 m) x 39.370" (1.00 m) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity 29.1-mph (13 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.



**SECTION VIEW**



**PLAN VIEW**

**Discharge Coefficient**  
Intake Cd = 0.27 (Class 3)  
AMCA certifies the coefficient class only

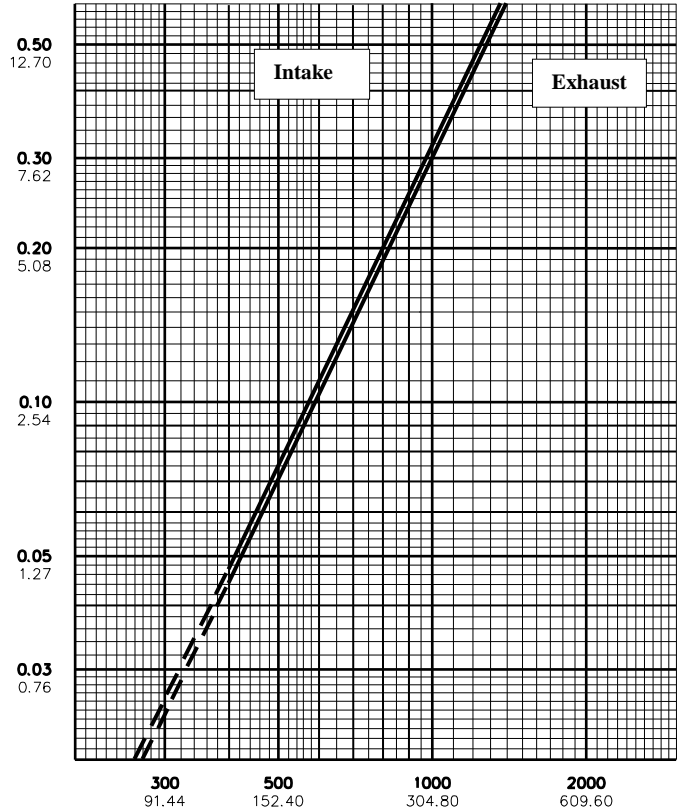
Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.4	3.0	3.4	3.9	4.4	5.0
Core Ventilation Rate (ft/min):	0	132	197	287	380	464	589	678	759	875	992
Free Area Velocity (ft/min):	0	222	331	483	640	781	992	1142	1278	1473	1670
Rating Effectiveness:	A	A	A	A	A	A	A	A	B	B	C
Effectiveness Ratio @ 29 & 3 (%)						99.9	99.9	99.6	97.6	95.8	90.1
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95			C = 0.949 to 0.80		D = 0.80 to 0			

# PERFORMANCE DATA MODEL RS-4605

## Width in Inches and Meters

	18	24	30	36	42	48	54	60
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
<b>18</b>	<b>0.82</b>	<b>1.17</b>	<b>1.53</b>	<b>1.88</b>	<b>2.24</b>	<b>2.60</b>	<b>2.95</b>	<b>3.31</b>
0.46	0.08	0.11	0.14	0.18	0.21	0.24	0.27	0.31
<b>24</b>	<b>1.19</b>	<b>1.71</b>	<b>2.23</b>	<b>2.75</b>	<b>3.26</b>	<b>3.78</b>	<b>4.30</b>	<b>4.82</b>
0.61	0.11	0.16	0.21	0.26	0.30	0.35	0.40	0.45
<b>30</b>	<b>1.56</b>	<b>2.24</b>	<b>2.93</b>	<b>3.61</b>	<b>4.29</b>	<b>4.97</b>	<b>5.65</b>	<b>6.33</b>
0.76	0.15	0.21	0.27	0.34	0.40	0.46	0.52	0.59
<b>36</b>	<b>1.94</b>	<b>2.78</b>	<b>3.62</b>	<b>4.47</b>	<b>5.31</b>	<b>6.15</b>	<b>7.00</b>	<b>7.84</b>
0.91	0.18	0.26	0.34	0.42	0.49	0.57	0.65	0.73
<b>42</b>	<b>2.31</b>	<b>3.32</b>	<b>4.32</b>	<b>5.33</b>	<b>6.33</b>	<b>7.34</b>	<b>8.35</b>	<b>9.35</b>
1.07	0.21	0.31	0.40	0.50	0.59	0.68	0.78	0.87
<b>48</b>	<b>2.68</b>	<b>3.85</b>	<b>5.02</b>	<b>6.19</b>	<b>7.36</b>	<b>8.53</b>	<b>9.70</b>	<b>10.86</b>
1.22	0.25	0.36	0.47	0.58	0.68	0.79	0.90	1.01
<b>54</b>	<b>3.06</b>	<b>4.39</b>	<b>5.72</b>	<b>7.05</b>	<b>8.38</b>	<b>9.71</b>	<b>11.05</b>	<b>12.38</b>
1.37	0.28	0.41	0.53	0.66	0.78	0.90	1.03	1.15
<b>60</b>	<b>3.43</b>	<b>4.92</b>	<b>6.42</b>	<b>7.91</b>	<b>9.41</b>	<b>10.90</b>	<b>12.39</b>	<b>13.89</b>
1.52	0.32	0.46	0.60	0.74	0.87	1.01	1.15	1.29
<b>66</b>	<b>3.80</b>	<b>5.46</b>	<b>7.12</b>	<b>8.77</b>	<b>10.43</b>	<b>12.09</b>	<b>13.74</b>	<b>15.40</b>
1.68	0.35	0.51	0.66	0.82	0.97	1.12	1.28	1.43
<b>72</b>	<b>4.18</b>	<b>6.00</b>	<b>7.82</b>	<b>9.63</b>	<b>11.45</b>	<b>13.27</b>	<b>15.09</b>	<b>16.91</b>
1.83	0.39	0.56	0.73	0.90	1.06	1.23	1.40	1.57
<b>78</b>	<b>4.55</b>	<b>6.53</b>	<b>8.51</b>	<b>10.50</b>	<b>12.48</b>	<b>14.46</b>	<b>16.44</b>	<b>18.42</b>
1.98	0.42	0.61	0.79	0.98	1.16	1.34	1.53	1.71
<b>84</b>	<b>4.92</b>	<b>7.07</b>	<b>9.21</b>	<b>11.36</b>	<b>13.50</b>	<b>15.65</b>	<b>17.79</b>	<b>19.93</b>
2.13	0.46	0.66	0.86	1.06	1.25	1.45	1.65	1.85
<b>90</b>	<b>5.06</b>	<b>7.27</b>	<b>9.47</b>	<b>11.68</b>	<b>13.89</b>	<b>16.09</b>	<b>18.30</b>	<b>20.50</b>
2.29	0.47	0.68	0.88	1.09	1.29	1.49	1.70	1.90
<b>96</b>	<b>5.44</b>	<b>7.81</b>	<b>10.17</b>	<b>12.54</b>	<b>14.91</b>	<b>17.28</b>	<b>19.64</b>	<b>22.01</b>
2.44	0.51	0.73	0.95	1.17	1.39	1.61	1.83	2.05
<b>102</b>	<b>5.81</b>	<b>8.34</b>	<b>10.87</b>	<b>13.40</b>	<b>15.93</b>	<b>18.46</b>	<b>20.99</b>	<b>23.52</b>
2.59	0.54	0.77	1.01	1.25	1.48	1.72	1.95	2.19
<b>108</b>	<b>6.18</b>	<b>8.88</b>	<b>11.57</b>	<b>14.26</b>	<b>16.96</b>	<b>19.65</b>	<b>22.34</b>	<b>25.04</b>
2.74	0.57	0.82	1.07	1.33	1.58	1.83	2.08	2.33
<b>114</b>	<b>6.56</b>	<b>9.41</b>	<b>12.27</b>	<b>15.12</b>	<b>17.98</b>	<b>20.84</b>	<b>23.69</b>	<b>26.55</b>
2.90	0.61	0.87	1.14	1.41	1.67	1.94	2.20	2.47
<b>120</b>	<b>6.93</b>	<b>9.95</b>	<b>12.97</b>	<b>15.99</b>	<b>19.00</b>	<b>22.02</b>	<b>25.04</b>	<b>28.06</b>
3.05	0.64	0.92	1.20	1.49	1.77	2.05	2.33	2.61
<b>126</b>	<b>7.30</b>	<b>10.49</b>	<b>13.67</b>	<b>16.85</b>	<b>20.03</b>	<b>23.21</b>	<b>26.39</b>	<b>29.57</b>
3.20	0.68	0.97	1.27	1.57	1.86	2.16	2.45	2.75
<b>132</b>	<b>7.68</b>	<b>11.02</b>	<b>14.37</b>	<b>17.71</b>	<b>21.05</b>	<b>24.40</b>	<b>27.74</b>	<b>31.08</b>
3.35	0.71	1.02	1.33	1.65	1.96	2.27	2.58	2.89
<b>138</b>	<b>8.05</b>	<b>11.56</b>	<b>15.06</b>	<b>18.57</b>	<b>22.08</b>	<b>25.58</b>	<b>29.09</b>	<b>32.59</b>
3.51	0.75	1.07	1.40	1.73	2.05	2.38	2.70	3.03
<b>144</b>	<b>8.43</b>	<b>12.09</b>	<b>15.76</b>	<b>19.43</b>	<b>23.10</b>	<b>26.77</b>	<b>30.44</b>	<b>34.11</b>
3.66	0.78	1.12	1.46	1.81	2.15	2.49	2.83	3.17
<b>150</b>	<b>8.80</b>	<b>12.63</b>	<b>16.46</b>	<b>20.29</b>	<b>24.12</b>	<b>27.95</b>	<b>31.79</b>	<b>35.62</b>
3.81	0.82	1.17	1.53	1.89	2.24	2.60	2.95	3.31
<b>156</b>	<b>9.17</b>	<b>13.17</b>	<b>17.16</b>	<b>21.15</b>	<b>25.15</b>	<b>29.14</b>	<b>33.14</b>	<b>37.13</b>
3.96	0.85	1.22	1.59	1.97	2.34	2.71	3.08	3.45
<b>162</b>	<b>9.55</b>	<b>13.70</b>	<b>17.86</b>	<b>22.01</b>	<b>26.17</b>	<b>30.33</b>	<b>34.48</b>	<b>38.64</b>
4.11	0.89	1.27	1.66	2.05	2.43	2.82	3.20	3.59
<b>168</b>	<b>9.92</b>	<b>14.24</b>	<b>18.56</b>	<b>22.88</b>	<b>27.19</b>	<b>31.51</b>	<b>35.83</b>	<b>40.15</b>
4.27	0.92	1.32	1.72	2.13	2.53	2.93	3.33	3.73
<b>174</b>	<b>10.06</b>	<b>14.44</b>	<b>18.82</b>	<b>23.20</b>	<b>27.58</b>	<b>31.96</b>	<b>36.34</b>	<b>40.72</b>
4.42	0.93	1.34	1.75	2.16	2.56	2.97	3.38	3.78
<b>180</b>	<b>10.43</b>	<b>14.97</b>	<b>19.52</b>	<b>24.06</b>	<b>28.60</b>	<b>33.15</b>	<b>37.69</b>	<b>42.23</b>
4.57	0.97	1.39	1.81	2.24	2.66	3.08	3.50	3.92
<b>186</b>	<b>10.81</b>	<b>15.51</b>	<b>20.22</b>	<b>24.92</b>	<b>29.63</b>	<b>34.33</b>	<b>39.04</b>	<b>43.74</b>
4.72	1.00	1.44	1.88	2.32	2.75	3.19	3.63	4.06
<b>192</b>	<b>11.18</b>	<b>16.05</b>	<b>20.91</b>	<b>25.78</b>	<b>30.65</b>	<b>35.52</b>	<b>40.39</b>	<b>45.25</b>
4.88	1.04	1.49	1.94	2.40	2.85	3.30	3.75	4.20
<b>198</b>	<b>11.55</b>	<b>16.58</b>	<b>21.61</b>	<b>26.64</b>	<b>31.67</b>	<b>36.70</b>	<b>41.73</b>	<b>46.77</b>
5.03	1.07	1.54	2.01	2.48	2.94	3.41	3.88	4.34

Height in Inches and Meters



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

For a 48" X 48" sized louver

**Construction Specialties, Inc.**  
**Manufacturing & Sales Location**  
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 49 Meeker Avenue 07016  
 Telephone: (800) 631-7379  
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 call C/S International (908) 236-0800

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