

Construction Specialties Inc. certifies that the louver model RS-6700 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 air performance ratings, water penetration ratings, and wind driven rain ratings.

**TEST DATA:**

To maintain a **CLASS A (99%) effectiveness** rating with a 29.1 mph wind speed and rainfall rate of 3 in/hr

- ⇒ Maximum intake core velocity 3.5 m/s (679 FPM)
- ⇒ Maximum intake free area velocity 6.7 m/s (1,311FPM)
- ⇒ Intake pressure drop 91.9 Pa (0.37 in H<sub>2</sub>O)
- ⇒ Intake capacity 3.5 m<sup>3</sup>/s (7,308 CFM)

To maintain a **CLASS A (99%) effectiveness** rating with a 50 mph wind speed and rainfall rate of 8 in/hr

- ⇒ Maximum intake core velocity 3.5 m/s (674 FPM)
- ⇒ Maximum intake free area velocity 6.7 m/s (1,302 FPM)
- ⇒ Intake pressure drop 90.4 Pa (0.36 in H<sub>2</sub>O)
- ⇒ Intake capacity 3.5 m<sup>3</sup>/s (7,257 CFM)

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



For a 4 Foot by 4 Foot Unit. Tested with mill finish and no screen.

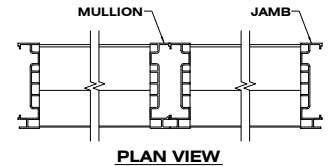
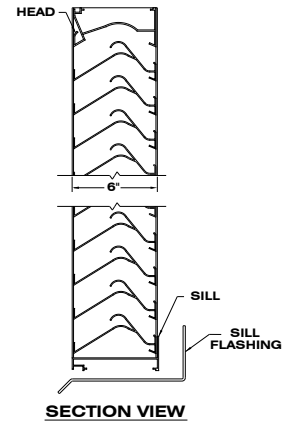
- ⇒ Free area = 7.46 ft<sup>2</sup> (0.70 m<sup>2</sup>)
- ⇒ Percent free area = 46.6%
- ⇒ Free area velocity at the point of beginning water penetration (@0.01oz./ft<sup>2</sup> of free area based on a 15 minute interval test) = 1,250 FPM (6.4 m/s)
- ⇒ Maximum recommended air intake velocity = 1050 FPM (5.3 m/s)  
Air Volume @ 1050 FPM free area velocity = 7,833 CFM (3.7 m<sup>3</sup>/s)  
Pressure drop @ 1050 FPM intake velocity = 0.24 in. H<sub>2</sub>O (58.9 Pa)
- ⇒ Maximum recommended air exhaust velocity = 1,468 FPM (7.5 m/s)  
Air Volume @ 1,468 FPM free area velocity = 10,951 CFM (5.2 m<sup>3</sup>/s)  
Pressure Drop @ 1,468 FPM free area velocity = 0.50 in. H<sub>2</sub>O (124.2 Pa)

**SUGGESTED SPECIFICATIONS:**

**GENERAL:** Furnish and install where indicated on the drawings C/S 6" (152.4 mm) STORM RESISTANT FIXED HORIZONTAL LOUVER MODEL RS-6700 as manufactured by Construction Specialties, Inc. Lebanon, New Jersey. Complete details shall be submitted to the architect for approval prior to fabrication.

**MATERIAL:** Heads, sills, jambs and mullions to be one piece structural members of 6063-T6 alloy with integral caulking slot and retaining beads. Mullions shall be sliding interlock with integral internal drain(s). Heads to be one piece extrusion with gutter(s) designed to catch and direct water to jamb and mullion drains. Closed cell compression gaskets shall be provided between bottom of the mullion or jamb and the top of the sill to insure leak tight connections. Blades to be one piece extrusions with reinforcing bosses. All fasteners to be aluminum or stainless steel. All louvers to be furnished with 5/8" (15.87 mm) flattened expanded mesh, aluminum bird screen with a 0.055" (1.40 mm) thick extruded aluminum frame. Screens and screen frames to be standard mill finish.

**STRUCTURAL DESIGN:** Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than \_\_\_\_\_ psf (Pascals). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self-supporting units 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.



**Discharge Coefficient**  
**Intake C<sub>d</sub> = 0.28 (Class 3)**  
AMCA certifies the coefficient class only

Data corrected to standard air density  
Tested to AMCA figure 5.5

**WIND DRIVEN RAIN PERFORMANCE:**

The louver test was based on a 39.370" (1.0 m) x 39.370" (1.0 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 of 29.1 mph (13 m/s) as well as a rainfall rate of 8" per hour (203 mm) and a wind velocity of 50 mph (23.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft/min):	0	132	197	287	380	482	591	679	783	846	997
Free Area Velocity (ft/min):	0	255	380	554	734	931	1141	1311	1512	1634	1925
Rating Effectiveness @ 29 & 3:	A	A	A	A	A	A	A	A	B	B	C
Effectiveness Ratio @ 29 & 3:						99.9	99.9	99.4	97.1	95.7	91.0
Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft/min):	0	96	194	284	401	495	567	674	793	878	965
Free Area Velocity (ft/min):	0	185	375	548	774	956	1095	1302	1531	1695	1864
Rating Effectiveness @ 50 & 8:	A	A	A	A	A	A	A	A	B	C	C
Effectiveness Ratio @ 50 & 8:						99.2	99.1	99.2	99.0	97.5	94.6
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.80 to 0				

**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 omitted 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.

# PERFORMANCE DATA MODEL RS-6700

FREE AREAS IN SQ. FEET AND SQ. METERS

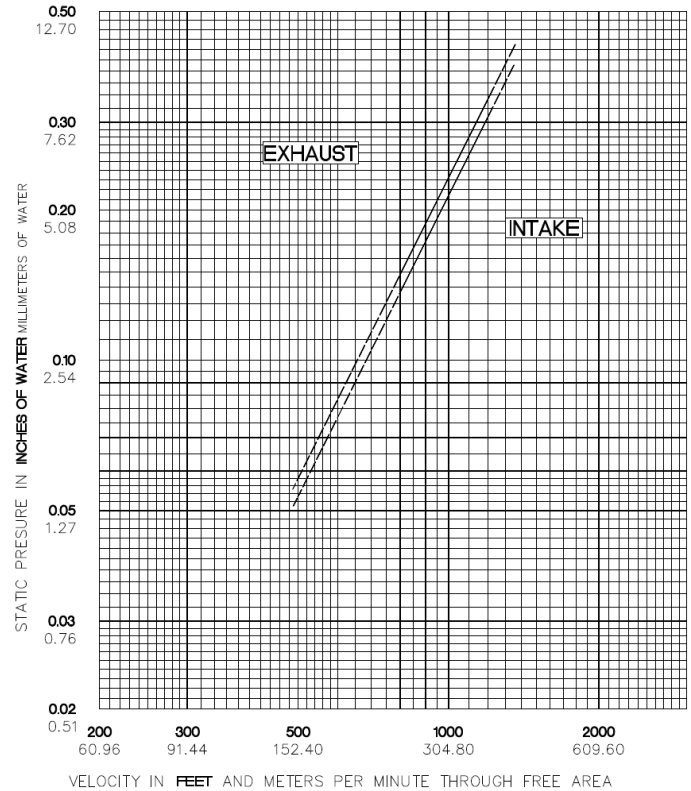
## Width in Inches and Meters

	18	24	30	36	42	48	54	60	66	72
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83
<b>18</b>	<b>0.73</b>	<b>1.00</b>	<b>1.27</b>	<b>1.55</b>	<b>1.82</b>	<b>2.10</b>	<b>2.37</b>	<b>2.64</b>	<b>2.92</b>	<b>3.19</b>
0.46	0.07	0.09	0.12	0.14	0.17	0.19	0.22	0.25	0.27	0.30
<b>24</b>	<b>1.08</b>	<b>1.49</b>	<b>1.90</b>	<b>2.31</b>	<b>2.72</b>	<b>3.13</b>	<b>3.54</b>	<b>3.95</b>	<b>4.36</b>	<b>4.77</b>
0.61	0.10	0.14	0.18	0.21	0.25	0.29	0.33	0.37	0.40	0.44
<b>30</b>	<b>1.45</b>	<b>2.00</b>	<b>2.55</b>	<b>3.10</b>	<b>3.65</b>	<b>4.20</b>	<b>4.75</b>	<b>5.30</b>	<b>5.85</b>	<b>6.40</b>
0.76	0.14	0.19	0.24	0.29	0.34	0.39	0.44	0.49	0.54	0.59
<b>36</b>	<b>1.85</b>	<b>2.55</b>	<b>3.25</b>	<b>3.95</b>	<b>4.65</b>	<b>5.35</b>	<b>6.05</b>	<b>6.75</b>	<b>7.45</b>	<b>8.15</b>
0.91	0.17	0.24	0.30	0.37	0.43	0.50	0.56	0.63	0.69	0.76
<b>42</b>	<b>2.25</b>	<b>3.10</b>	<b>3.95</b>	<b>4.80</b>	<b>5.65</b>	<b>6.49</b>	<b>7.34</b>	<b>8.19</b>	<b>9.04</b>	<b>9.89</b>
1.07	0.21	0.29	0.37	0.45	0.52	0.60	0.68	0.76	0.84	0.92
<b>48</b>	<b>2.60</b>	<b>3.59</b>	<b>4.57</b>	<b>5.55</b>	<b>6.54</b>	<b>7.46</b>	<b>8.50</b>	<b>9.49</b>	<b>10.47</b>	<b>11.46</b>
1.22	0.24	0.33	0.42	0.52	0.61	0.70	0.79	0.88	0.97	1.06
<b>54</b>	<b>2.96</b>	<b>4.08</b>	<b>5.20</b>	<b>6.31</b>	<b>7.43</b>	<b>8.55</b>	<b>9.67</b>	<b>10.79</b>	<b>11.91</b>	<b>13.03</b>
1.37	0.27	0.38	0.48	0.59	0.69	0.79	0.90	1.00	1.11	1.21
<b>60</b>	<b>3.32</b>	<b>4.57</b>	<b>5.83</b>	<b>7.08</b>	<b>8.34</b>	<b>9.59</b>	<b>10.85</b>	<b>12.10</b>	<b>13.36</b>	<b>14.61</b>
1.52	0.31	0.42	0.54	0.66	0.77	0.89	1.01	1.12	1.24	1.36
<b>66</b>	<b>3.70</b>	<b>5.10</b>	<b>6.50</b>	<b>7.90</b>	<b>9.30</b>	<b>10.70</b>	<b>12.10</b>	<b>13.49</b>	<b>14.89</b>	<b>16.29</b>
1.68	0.34	0.47	0.60	0.73	0.86	0.99	1.12	1.25	1.38	1.51
<b>72</b>	<b>4.10</b>	<b>5.65</b>	<b>7.20</b>	<b>8.74</b>	<b>10.29</b>	<b>11.84</b>	<b>13.39</b>	<b>14.94</b>	<b>16.49</b>	<b>18.04</b>
1.83	0.38	0.52	0.67	0.81	0.96	1.10	1.24	1.39	1.53	1.68
<b>78</b>	<b>4.48</b>	<b>6.17</b>	<b>7.87</b>	<b>9.56</b>	<b>11.26</b>	<b>12.95</b>	<b>14.64</b>	<b>16.34</b>	<b>18.03</b>	<b>19.72</b>
1.98	0.42	0.57	0.73	0.89	1.05	1.20	1.36	1.52	1.68	1.83
<b>84</b>	<b>4.84</b>	<b>6.67</b>	<b>8.49</b>	<b>10.32</b>	<b>12.15</b>	<b>13.98</b>	<b>15.81</b>	<b>17.63</b>	<b>19.46</b>	<b>21.29</b>
2.13	0.45	0.62	0.79	0.96	1.13	1.30	1.47	1.64	1.81	1.98
<b>90</b>	<b>5.19</b>	<b>7.16</b>	<b>9.12</b>	<b>11.08</b>	<b>13.05</b>	<b>15.01</b>	<b>16.97</b>	<b>18.93</b>	<b>20.90</b>	<b>22.86</b>
2.29	0.48	0.66	0.85	1.03	1.21	1.39	1.58	1.76	1.94	2.12
<b>96</b>	<b>5.55</b>	<b>7.65</b>	<b>9.75</b>	<b>11.85</b>	<b>13.95</b>	<b>16.05</b>	<b>18.14</b>	<b>20.24</b>	<b>22.34</b>	<b>24.44</b>
2.44	0.52	0.71	0.91	1.10	1.30	1.49	1.69	1.88	2.08	2.27
<b>102</b>	<b>5.95</b>	<b>8.20</b>	<b>10.45</b>	<b>12.69</b>	<b>14.94</b>	<b>17.19</b>	<b>19.44</b>	<b>21.69</b>	<b>23.94</b>	<b>26.19</b>
2.59	0.55	0.76	0.97	1.18	1.39	1.60	1.81	2.01	2.22	2.43
<b>108</b>	<b>6.35</b>	<b>8.74</b>	<b>11.14</b>	<b>13.54</b>	<b>15.94</b>	<b>18.34</b>	<b>20.74</b>	<b>23.13</b>	<b>25.53</b>	<b>27.93</b>
2.74	0.59	0.81	1.04	1.26	1.48	1.70	1.93	2.15	2.37	2.59
<b>114</b>	<b>6.71</b>	<b>9.25</b>	<b>11.79</b>	<b>14.33</b>	<b>16.87</b>	<b>19.40</b>	<b>21.94</b>	<b>24.48</b>	<b>27.02</b>	<b>29.56</b>
2.90	0.62	0.86	1.10	1.33	1.57	1.80	2.04	2.27	2.51	2.75
<b>120</b>	<b>7.07</b>	<b>9.74</b>	<b>12.42</b>	<b>15.09</b>	<b>17.76</b>	<b>20.43</b>	<b>23.11</b>	<b>25.78</b>	<b>28.45</b>	<b>31.12</b>
3.05	0.66	0.91	1.15	1.40	1.65	1.90	2.15	2.39	2.64	2.89
<b>126</b>	<b>7.43</b>	<b>10.24</b>	<b>13.04</b>	<b>15.85</b>	<b>18.66</b>	<b>21.47</b>	<b>24.27</b>	<b>27.08</b>	<b>29.89</b>	<b>32.70</b>
3.20	0.69	0.95	1.21	1.47	1.73	1.99	2.26	2.52	2.78	3.04
<b>132</b>	<b>7.80</b>	<b>10.75</b>	<b>13.70</b>	<b>16.64</b>	<b>19.59</b>	<b>22.54</b>	<b>25.49</b>	<b>28.44</b>	<b>31.38</b>	<b>34.33</b>
3.35	0.72	1.00	1.27	1.55	1.82	2.09	2.37	2.64	2.92	3.19
<b>138</b>	<b>8.20</b>	<b>11.29</b>	<b>14.39</b>	<b>17.49</b>	<b>20.59</b>	<b>23.69</b>	<b>26.78</b>	<b>29.88</b>	<b>32.98</b>	<b>36.08</b>
3.51	0.76	1.05	1.34	1.62	1.91	2.20	2.49	2.78	3.06	3.35
<b>144</b>	<b>8.59</b>	<b>11.84</b>	<b>15.09</b>	<b>18.34</b>	<b>21.58</b>	<b>24.83</b>	<b>28.08</b>	<b>31.33</b>	<b>34.58</b>	<b>37.82</b>
3.66	0.80	1.10	1.40	1.70	2.01	2.31	2.61	2.91	3.21	3.51

Height in Inches and Meters

## 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.



For a 48" x 48" sized louver  
Tested to AMCA Figure 5.5  
Data corrected to standard air density

**Construction Specialties, Inc.**  
**Manufacturing & Sales Location**  
www.c-sgroup.com

**Lebanon, New Jersey**  
3 Werner Way 08833  
Telephone: (800) 631-7379  
[louvers@c-sgroup.com](mailto:louvers@c-sgroup.com)

*A member of the C/S Group of Companies  
For assistance with overseas requirements,  
Call C/S International (908) 236-0800*

© Copyright January 2020. Construction Specialties, Inc., reserves the right to make design changes or to withdraw any design without notice.

Upper Numerals English Units/Lower Numerals Metric Units

RS-6700-03