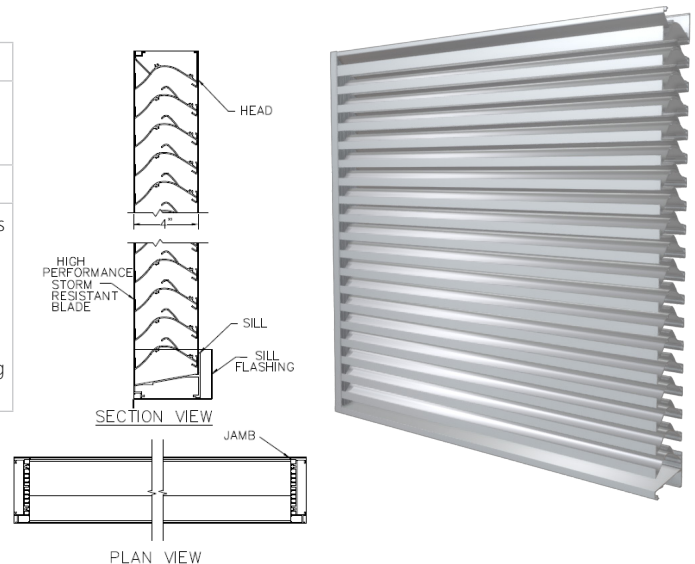


## Model RS-4700

### 4" (101.6 mm) Storm Resistant Fixed Horizontal Louvre

#### Material:

|                                             |                                                                                                                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material:                                   | 6063-T6 Alloy                                                                                                                                                                                                                                   |
| Nominal Thickness:                          | Heads: 0.060" (1.52 mm)<br>Sills: 0.070" (1.78 mm)<br>Jamb & Mullions: 0.063" (1.60 mm)                                                                                                                                                         |
| Nominal Blade Thickness:                    | 0.060" (1.52 mm)                                                                                                                                                                                                                                |
| Additional Options<br>(at additional cost): | Birdscreen: 0.5" (12.7 mm) welded stainless steel G304 mesh.<br>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, Integrated glazing frames |



#### Test Summary:

##### For a 4 Foot by 4 Foot Unit (1219mm x 1219mm).

##### Tested with mill finish and no screen

- Free (throat) area = 8.25 ft<sup>2</sup> (0.77 m<sup>2</sup>)
- Percent free (throat) area = 51.6%
- Free (throat) area velocity at the point of beginning water penetration (@ 0.01 oz. / ft<sup>2</sup> of free (throat) area based on a 15 minute interval test) = 1,250 FPM (6.35 m/s)
- To maintain a CLASS A (99%) effectiveness rating\* with:
  - a 29.1 mph wind speed and rainfall rate of 3 in/hr
    - Max. intake core velocity 3.0 m/s (600 FPM)
    - Max. intake free (throat) area velocity 5.3 m/s (1,049 FPM)
- To maintain a CLASS A (99%) effectiveness rating\* with:
  - a 50 mph wind speed and rainfall rate of 8 in/hr
    - Max. intake core velocity 1.5 m/s (290 FPM)
    - Max. intake free (throat) area velocity 2.6 m/s (507 FPM)



Construction Specialties Inc. certifies that the louvre model RS-4700 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 ratings, Water Penetration Ratings and Air Performance ratings.

#### Discharge Coefficient

Intake Cd = 0.25 (Class 3)

AMCA certifies the coefficient class only

#### Wind Driven Rain Performance: Tested with 1m<sup>2</sup> core area, mill finish and no screen\*

29.1 mph (13 m/s) & 3" (75 mm) rain per hour

|                                         |     |     |     |     |      |      |      |      |      |      |      |
|-----------------------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Core Velocity Through Cal. Plate (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 Velocity Through Louvre (ft/min):  | 0   | 132 | 197 | 287 | 377  | 469  | 600  | 684  | 773  | 880  | 985  |
| Free (throat) area Velocity (ft/min):   | 0   | 231 | 344 | 502 | 659  | 820  | 1049 | 1195 | 1351 | 1538 | 1721 |
| Rating Effectiveness:                   | A   | A   | A   | A   | A    | A    | A    | B    | C    | D    | D    |
| Effectiveness Ratio (%):                |     |     |     |     | 99.6 | 99.5 | 99.0 | 95.7 | 86.3 | 78.1 | 66.4 |

50 mph (22.3 m/s) & 8" (203 mm) rain per hour

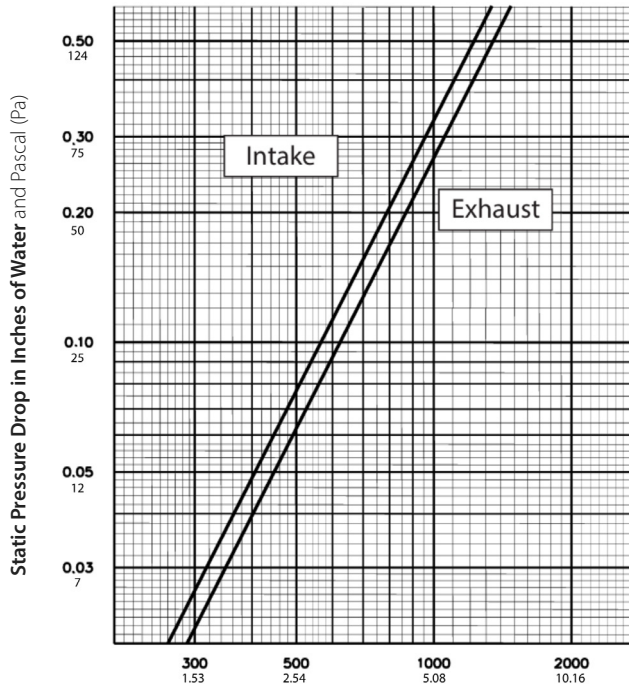
|                                         |               |      |      |                   |      |      |                   |      |      |                |      |
|-----------------------------------------|---------------|------|------|-------------------|------|------|-------------------|------|------|----------------|------|
| Core Velocity Through Cal. Plate (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 Velocity Through Louvre (ft/min):  | 0             | 94   | 197  | 290               | 399  | 499  | 570               | 686  | 796  | 879            | 968  |
| Free (throat) area Velocity (ft/min):   | 0             | 164  | 344  | 507               | 697  | 872  | 996               | 1199 | 1391 | 1536           | 1692 |
| Rating Effectiveness:                   | A             | A    | A    | A                 | B    | B    | B                 | C    | C    | D              | D    |
| Effectiveness Ratio (%):                |               | 99.4 | 99.2 | 99.0              | 98.4 | 97.1 | 95.1              | 89.5 | 81.2 | 75.7           | 68.5 |
| Effectiveness Rating:                   | A = 1 to 0.99 |      |      | B = 0.989 to 0.95 |      |      | C = 0.949 to 0.80 |      |      | D = Below 0.80 |      |

# Model RS-4700

## 4" (101.6 mm) Storm Resistant Fixed Horizontal Louvre

### Water Penetration Statement

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



Free Air Velocity in Feet per minute and Metre per Second (m/s)

Data corrected to standard air density.

48" x 48" (121.92cm x 121.92cm) louvre tested to figure 5.5.

### Free (throat) area Table (Free (throat) area in sq. feet and sq. metres)

For additional sizes, please visit:

#### Width in Inches and Metres

|     | 18    | 24    | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     | 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  |
| 18  | 0.91  | 1.25  | 1.59  | 1.92  | 2.26  | 2.60  | 2.94  | 3.28  | 3.62  | 3.96  | 4.30  | 4.64  | 4.98  |
| 24  | 1.27  | 1.74  | 2.21  | 2.69  | 3.16  | 3.63  | 4.10  | 4.58  | 5.05  | 5.52  | 6.00  | 6.47  | 6.94  |
| 30  | 1.69  | 2.32  | 2.95  | 3.58  | 4.21  | 4.84  | 5.47  | 6.10  | 6.73  | 7.36  | 7.99  | 8.62  | 9.25  |
| 36  | 2.07  | 2.85  | 3.62  | 4.39  | 5.17  | 5.94  | 6.72  | 7.49  | 8.26  | 9.04  | 9.81  | 10.59 | 11.36 |
| 42  | 2.42  | 3.32  | 4.22  | 5.13  | 6.03  | 6.93  | 7.84  | 8.74  | 9.64  | 10.54 | 11.45 | 12.35 | 13.25 |
| 48  | 2.88  | 3.95  | 5.03  | 6.10  | 7.18  | 8.25  | 9.33  | 10.40 | 11.48 | 12.55 | 13.63 | 14.70 | 15.78 |
| 54  | 3.27  | 4.43  | 5.63  | 6.83  | 8.04  | 9.24  | 10.45 | 11.65 | 12.86 | 14.06 | 15.26 | 16.47 | 17.67 |
| 60  | 3.67  | 5.04  | 6.41  | 7.78  | 9.15  | 10.53 | 11.90 | 13.27 | 14.64 | 16.01 | 17.38 | 18.75 | 20.12 |
| 66  | 4.03  | 5.53  | 7.04  | 8.54  | 10.05 | 11.55 | 13.06 | 14.56 | 16.07 | 17.57 | 19.08 | 20.59 | 22.09 |
| 72  | 4.45  | 6.11  | 7.77  | 9.43  | 11.10 | 12.76 | 14.42 | 16.08 | 17.75 | 19.41 | 21.07 | 22.73 | 24.39 |
| 78  | 4.83  | 6.64  | 8.45  | 10.25 | 12.06 | 13.87 | 15.67 | 17.48 | 19.28 | 21.09 | 22.90 | 24.70 | 26.51 |
| 84  | 5.18  | 7.11  | 9.05  | 10.98 | 12.92 | 14.86 | 16.79 | 18.73 | 20.66 | 22.60 | 24.53 | 26.47 | 28.40 |
| 90  | 5.64  | 7.75  | 9.85  | 11.96 | 14.07 | 16.18 | 18.28 | 20.39 | 22.50 | 24.60 | 26.71 | 28.82 | 30.93 |
| 96  | 5.98  | 8.22  | 10.46 | 12.69 | 14.93 | 17.17 | 19.40 | 21.64 | 23.87 | 26.11 | 28.35 | 30.58 | 32.82 |
| 102 | 6.43  | 8.84  | 11.24 | 13.64 | 16.05 | 18.45 | 20.85 | 23.25 | 25.66 | 28.06 | 30.46 | 32.87 | 35.27 |
| 108 | 6.79  | 9.33  | 11.87 | 14.40 | 16.94 | 19.48 | 22.01 | 24.55 | 27.09 | 29.63 | 32.16 | 34.70 | 37.24 |
| 114 | 7.21  | 9.90  | 12.60 | 15.29 | 17.99 | 20.68 | 23.38 | 26.07 | 28.76 | 31.46 | 34.15 | 36.85 | 39.54 |
| 120 | 7.60  | 10.43 | 13.27 | 16.11 | 18.95 | 21.79 | 24.63 | 27.46 | 30.30 | 33.14 | 35.98 | 38.82 | 41.66 |
| 126 | 7.94  | 10.91 | 13.88 | 16.84 | 19.81 | 22.78 | 25.75 | 28.71 | 31.68 | 34.65 | 37.61 | 40.58 | 43.55 |
| 132 | 8.40  | 11.54 | 14.68 | 17.82 | 20.96 | 24.10 | 27.24 | 30.38 | 33.52 | 36.66 | 39.80 | 42.93 | 46.07 |
| 138 | 8.75  | 12.02 | 15.28 | 18.55 | 21.82 | 25.09 | 28.36 | 31.63 | 34.89 | 38.16 | 41.43 | 44.70 | 47.97 |
| 144 | 9.19  | 12.63 | 16.06 | 19.50 | 22.94 | 26.37 | 29.81 | 33.24 | 36.68 | 40.11 | 43.55 | 46.98 | 50.42 |
| 150 | 9.55  | 13.12 | 16.69 | 20.26 | 23.83 | 27.40 | 30.97 | 34.54 | 38.11 | 41.68 | 45.25 | 48.82 | 52.39 |
| 156 | 9.97  | 13.70 | 17.43 | 21.15 | 24.88 | 28.60 | 32.33 | 36.06 | 39.78 | 43.51 | 47.24 | 50.96 | 54.69 |
| 162 | 10.36 | 14.23 | 18.10 | 21.97 | 25.84 | 29.71 | 33.58 | 37.45 | 41.32 | 45.19 | 49.06 | 52.93 | 56.80 |
| 168 | 10.70 | 14.70 | 18.70 | 22.70 | 26.70 | 30.70 | 34.70 | 38.70 | 42.70 | 46.70 | 50.70 | 54.70 | 58.70 |
| 174 | 11.16 | 15.34 | 19.51 | 23.68 | 27.85 | 32.02 | 36.19 | 40.36 | 44.54 | 48.71 | 52.88 | 57.05 | 61.22 |
| 180 | 11.51 | 15.81 | 20.11 | 24.41 | 28.71 | 33.01 | 37.31 | 41.61 | 45.91 | 50.21 | 54.51 | 58.81 | 63.11 |
| 186 | 11.96 | 16.42 | 20.89 | 25.36 | 29.83 | 34.29 | 38.76 | 43.23 | 47.70 | 52.16 | 56.63 | 61.10 | 65.57 |
| 192 | 12.32 | 16.92 | 21.52 | 26.12 | 30.72 | 35.32 | 39.92 | 44.53 | 49.13 | 53.73 | 58.33 | 62.93 | 67.53 |
| 198 | 12.74 | 17.49 | 22.25 | 27.01 | 31.77 | 36.53 | 41.29 | 46.04 | 50.80 | 55.56 | 60.32 | 65.08 | 69.84 |
| 204 | 13.18 | 18.03 | 22.97 | 27.91 | 32.81 | 37.63 | 42.49 | 47.24 | 52.00 | 56.76 | 61.52 | 66.28 | 71.04 |

Upper Numerals English Units/Lower Numerals Metric Units