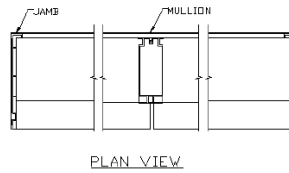
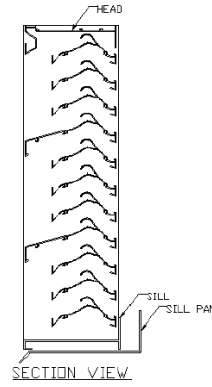


Model B-7505

7 3/8"(187.3 mm) Bold Line Storm Resistant Louver

Material:

| | |
|--|--|
| Material: | 6063-T6 Alloy |
| Nominal Thickness: | Heads: 0.063" (1.60 mm) Sills & Jambs & Mullions: 0.081" (2.06 mm) |
| Nominal Blade Thickness: | 7" Blades 0.075" (1.91 mm) 5" Blades 0.060" (1.52mm) |
| Furnished With: | Birdscreen: 1/2" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame |
| Additional Options (at additional cost): | Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames, Integrated glazing frames |



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

Tested with mill finish and no screen

- Free area = 7.32 ft² (0.681 m²)
- Percent free area = 45.8%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free 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 3.5 m/s (674 FPM)
 - Max. intake free area velocity 6.7 m/s (1,321 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 1.0 m/s (174 FPM)
 - Max. intake free area velocity 1.7 m/s (341 FPM)



Construction Specialties Inc. certifies that the louver model B-7505 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 = 0.34 (Class 2)
AMCA certifies the coefficient class only

Wind Driven Rain Performance: Tested with 1m² 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 Louver (ft/min): | 0 | 0 | 0 | 0 | 0 | 467 | 580 | 674 | 767 | 856 | 993 |
| Free Area Velocity (ft/min): | 0 | 0 | 0 | 0 | 0 | 915 | 1137 | 1321 | 1503 | 1678 | 1946 |
| Rating Effectiveness: | A | A | A | A | A | A | A | A | B | B | C |
| Effectiveness Ratio (%): | | | | | | 100 | 99.9 | 99.8 | 97.8 | 95.4 | 87.2 |

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

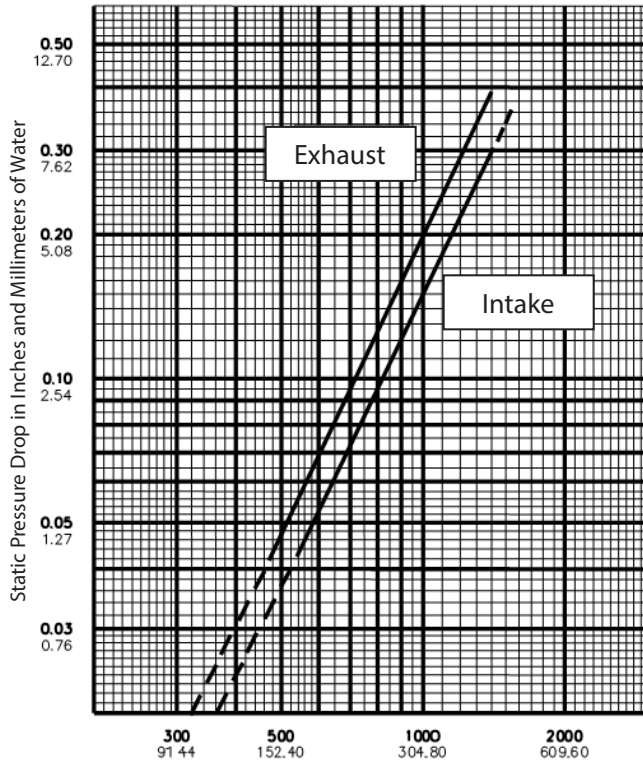
| | | | | | | | | | | | | |
|---|---------------|------|------|-------------------|------|------|-------------------|------|------|----------------|------|--|
| Core Velocity Through Cal. Plate (m/s): | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | |
| Core Velocity Through Louver (ft/min): | 0 | 106 | 174 | 284 | 401 | 481 | 563 | 683 | 785 | 872 | 967 | |
| Free Area Velocity (ft/min): | 0 | 208 | 341 | 557 | 786 | 943 | 1103 | 1339 | 1539 | 1709 | 1895 | |
| Rating Effectiveness: | A | A | A | B | B | B | B | B | C | C | D | |
| Effectiveness Ratio (%): | 99.5 | 99.2 | 99.2 | 98.9 | 98.5 | 98.0 | 97.8 | 95.8 | 92.2 | 87.5 | 79.3 | |
| Effectiveness Rating: | A = 1 to 0.99 | | | B = 0.989 to 0.95 | | | C = 0.949 to 0.80 | | | D = Below 0.80 | | |

Model B-7505

7 3/8"(187.3 mm) Bold Line Storm Resistant Louver

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/louvers-airflow-tool>

Width in Inches and Meters

| | 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 | 0.81 | 1.11 | 1.42 | 1.72 | 2.03 | 2.33 | 2.64 | 2.94 | 3.25 | 3.55 | 3.85 | 4.16 | 4.46 |
| 0.46 | 0.07 | 0.10 | 0.13 | 0.16 | 0.19 | 0.22 | 0.24 | 0.27 | 0.30 | 0.33 | 0.36 | 0.39 | 0.41 |
| 24 | 1.15 | 1.59 | 2.02 | 2.46 | 2.89 | 3.33 | 3.76 | 4.20 | 4.64 | 5.07 | 5.51 | 5.94 | 6.38 |
| 0.61 | 0.11 | 0.15 | 0.19 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.43 | 0.47 | 0.51 | 0.55 | 0.59 |
| 30 | 1.50 | 2.06 | 2.63 | 3.20 | 3.76 | 4.33 | 4.89 | 5.46 | 6.03 | 6.59 | 7.16 | 7.72 | 8.29 |
| 0.76 | 0.14 | 0.19 | 0.24 | 0.30 | 0.35 | 0.40 | 0.45 | 0.51 | 0.56 | 0.61 | 0.67 | 0.72 | 0.77 |
| 36 | 1.84 | 2.54 | 3.24 | 3.93 | 4.63 | 5.33 | 6.02 | 6.72 | 7.42 | 8.11 | 8.81 | 9.51 | 10.20 |
| 0.91 | 0.17 | 0.24 | 0.30 | 0.37 | 0.43 | 0.49 | 0.56 | 0.62 | 0.69 | 0.75 | 0.82 | 0.88 | 0.95 |
| 42 | 2.19 | 3.02 | 3.84 | 4.67 | 5.50 | 6.33 | 7.15 | 7.98 | 8.81 | 9.64 | 10.46 | 11.29 | 12.12 |
| 1.07 | 0.20 | 0.28 | 0.36 | 0.43 | 0.51 | 0.59 | 0.66 | 0.74 | 0.82 | 0.90 | 0.97 | 1.05 | 1.13 |
| 48 | 2.53 | 3.49 | 4.45 | 5.41 | 6.37 | 7.32 | 8.28 | 9.24 | 10.20 | 11.16 | 12.11 | 13.07 | 14.03 |
| 1.22 | 0.24 | 0.32 | 0.41 | 0.50 | 0.59 | 0.68 | 0.77 | 0.86 | 0.95 | 1.04 | 1.13 | 1.21 | 1.30 |
| 54 | 2.88 | 3.97 | 5.06 | 6.15 | 7.23 | 8.32 | 9.41 | 10.50 | 11.59 | 12.68 | 13.77 | 14.86 | 15.94 |
| 1.37 | 0.27 | 0.37 | 0.47 | 0.57 | 0.67 | 0.77 | 0.87 | 0.98 | 1.08 | 1.18 | 1.28 | 1.38 | 1.48 |
| 60 | 3.23 | 4.45 | 5.66 | 6.88 | 8.10 | 9.32 | 10.54 | 11.76 | 12.98 | 14.20 | 15.42 | 16.64 | 17.86 |
| 1.52 | 0.30 | 0.41 | 0.53 | 0.64 | 0.75 | 0.87 | 0.98 | 1.09 | 1.21 | 1.32 | 1.43 | 1.55 | 1.66 |
| 66 | 3.57 | 4.92 | 6.27 | 7.62 | 8.97 | 10.32 | 11.67 | 13.02 | 14.37 | 15.72 | 17.07 | 18.42 | 19.77 |
| 1.68 | 0.33 | 0.46 | 0.58 | 0.71 | 0.83 | 0.96 | 1.08 | 1.21 | 1.34 | 1.46 | 1.59 | 1.71 | 1.84 |
| 72 | 3.92 | 5.40 | 6.88 | 8.36 | 9.84 | 11.32 | 12.80 | 14.28 | 15.76 | 17.24 | 18.72 | 20.20 | 21.68 |
| 1.83 | 0.36 | 0.50 | 0.64 | 0.78 | 0.91 | 1.05 | 1.19 | 1.33 | 1.46 | 1.60 | 1.74 | 1.88 | 2.01 |
| 78 | 4.26 | 5.87 | 7.49 | 9.10 | 10.71 | 12.32 | 13.93 | 15.54 | 17.15 | 18.76 | 20.37 | 21.99 | 23.60 |
| 1.98 | 0.40 | 0.55 | 0.70 | 0.85 | 0.99 | 1.14 | 1.29 | 1.44 | 1.59 | 1.74 | 1.89 | 2.04 | 2.19 |
| 84 | 4.61 | 6.35 | 8.09 | 9.83 | 11.58 | 13.32 | 15.06 | 16.80 | 18.54 | 20.29 | 22.03 | 23.77 | 25.51 |
| 2.13 | 0.43 | 0.59 | 0.75 | 0.91 | 1.08 | 1.24 | 1.40 | 1.56 | 1.72 | 1.88 | 2.05 | 2.21 | 2.37 |
| 90 | 4.95 | 6.83 | 8.70 | 10.57 | 12.44 | 14.32 | 16.19 | 18.06 | 19.93 | 21.81 | 23.68 | 25.55 | 27.42 |
| 2.29 | 0.46 | 0.63 | 0.81 | 0.98 | 1.16 | 1.33 | 1.50 | 1.68 | 1.85 | 2.03 | 2.20 | 2.37 | 2.55 |
| 96 | 5.30 | 7.30 | 9.31 | 11.31 | 13.31 | 15.32 | 17.32 | 19.32 | 21.32 | 23.33 | 25.33 | 27.33 | 29.34 |
| 2.44 | 0.49 | 0.68 | 0.86 | 1.05 | 1.24 | 1.42 | 1.61 | 1.80 | 1.98 | 2.17 | 2.35 | 2.54 | 2.73 |
| 102 | 5.65 | 7.78 | 9.91 | 12.05 | 14.18 | 16.31 | 18.45 | 20.58 | 22.72 | 24.85 | 26.98 | 29.12 | 31.25 |
| 2.59 | 0.52 | 0.72 | 0.92 | 1.12 | 1.32 | 1.52 | 1.71 | 1.91 | 2.11 | 2.31 | 2.51 | 2.71 | 2.90 |
| 108 | 5.99 | 8.26 | 10.52 | 12.78 | 15.05 | 17.31 | 19.58 | 21.84 | 24.11 | 26.37 | 28.64 | 30.90 | 33.16 |
| 2.74 | 0.56 | 0.77 | 0.98 | 1.19 | 1.40 | 1.61 | 1.82 | 2.03 | 2.24 | 2.45 | 2.66 | 2.87 | 3.08 |
| 114 | 6.34 | 8.73 | 11.13 | 13.52 | 15.92 | 18.31 | 20.71 | 23.10 | 25.50 | 27.89 | 30.29 | 32.68 | 35.08 |
| 2.90 | 0.59 | 0.81 | 1.03 | 1.26 | 1.48 | 1.70 | 1.92 | 2.15 | 2.37 | 2.59 | 2.81 | 3.04 | 3.26 |
| 120 | 6.68 | 9.21 | 11.73 | 14.26 | 16.79 | 19.31 | 21.84 | 24.36 | 26.89 | 29.41 | 31.94 | 34.46 | 36.99 |
| 3.05 | 0.62 | 0.86 | 1.09 | 1.32 | 1.56 | 1.79 | 2.03 | 2.26 | 2.50 | 2.73 | 2.97 | 3.20 | 3.44 |
| 126 | 7.03 | 9.68 | 12.34 | 15.00 | 17.65 | 20.31 | 22.97 | 25.62 | 28.28 | 30.93 | 33.59 | 36.25 | 38.90 |
| 3.20 | 0.65 | 0.90 | 1.15 | 1.39 | 1.64 | 1.89 | 2.13 | 2.38 | 2.63 | 2.87 | 3.12 | 3.37 | 3.61 |
| 132 | 7.37 | 10.16 | 12.95 | 15.73 | 18.52 | 21.31 | 24.10 | 26.88 | 29.67 | 32.46 | 35.24 | 38.03 | 40.82 |
| 3.35 | 0.69 | 0.94 | 1.20 | 1.46 | 1.72 | 1.98 | 2.24 | 2.50 | 2.76 | 3.02 | 3.27 | 3.53 | 3.79 |
| 138 | 7.72 | 10.64 | 13.55 | 16.47 | 19.39 | 22.31 | 25.22 | 28.14 | 31.06 | 33.98 | 36.90 | 39.81 | 42.73 |
| 3.51 | 0.72 | 0.99 | 1.26 | 1.53 | 1.80 | 2.07 | 2.34 | 2.61 | 2.89 | 3.16 | 3.43 | 3.70 | 3.97 |
| 144 | 8.07 | 11.11 | 14.16 | 17.21 | 20.26 | 23.31 | 26.35 | 29.40 | 32.45 | 35.50 | 38.55 | 41.60 | 44.64 |
| 3.66 | 0.75 | 1.03 | 1.32 | 1.60 | 1.88 | 2.17 | 2.45 | 2.73 | 3.01 | 3.30 | 3.58 | 3.86 | 4.15 |
| 150 | 8.41 | 11.59 | 14.77 | 17.95 | 21.13 | 24.30 | 27.48 | 30.66 | 33.84 | 37.02 | 40.20 | 43.38 | 46.56 |
| 3.81 | 0.78 | 1.08 | 1.37 | 1.67 | 1.96 | 2.26 | 2.55 | 2.85 | 3.14 | 3.44 | 3.73 | 4.03 | 4.33 |
| 156 | 8.76 | 12.07 | 15.38 | 18.68 | 21.99 | 25.30 | 28.61 | 31.92 | 35.23 | 38.54 | 41.85 | 45.16 | 48.47 |
| 3.96 | 0.81 | 1.12 | 1.43 | 1.74 | 2.04 | 2.35 | 2.66 | 2.97 | 3.27 | 3.58 | 3.89 | 4.20 | 4.50 |
| 162 | 9.10 | 12.54 | 15.98 | 19.42 | 22.86 | 26.30 | 29.74 | 33.18 | 36.62 | 40.06 | 43.50 | 46.94 | 50.38 |
| 4.11 | 0.85 | 1.17 | 1.48 | 1.80 | 2.12 | 2.44 | 2.76 | 3.08 | 3.40 | 3.72 | 4.04 | 4.36 | 4.68 |
| 168 | 9.45 | 13.02 | 16.59 | 20.16 | 23.73 | 27.30 | 30.87 | 34.44 | 38.01 | 41.58 | 45.16 | 48.73 | 52.30 |
| 4.27 | 0.88 | 1.21 | 1.54 | 1.87 | 2.20 | 2.54 | 2.87 | 3.20 | 3.53 | 3.86 | 4.20 | 4.53 | 4.86 |
| 174 | 9.79 | 13.49 | 17.20 | 20.90 | 24.60 | 28.30 | 32.00 | 35.70 | 39.40 | 43.11 | 46.81 | 50.51 | 54.21 |
| 4.42 | 0.91 | 1.25 | 1.60 | 1.94 | 2.29 | 2.63 | 2.97 | 3.32 | 3.66 | 4.00 | 4.35 | 4.69 | 5.04 |
| 180 | 10.14 | 13.97 | 17.80 | 21.64 | 25.47 | 29.30 | 33.13 | 36.96 | 40.80 | 44.63 | 48.46 | 52.29 | 56.12 |
| 4.57 | 0.94 | 1.30 | 1.65 | 2.01 | 2.37 | 2.72 | 3.08 | 3.43 | 3.79 | 4.15 | 4.50 | 4.86 | 5.21 |
| 186 | 10.48 | 14.45 | 18.41 | 22.37 | 26.34 | 30.30 | 34.26 | 38.22 | 42.19 | 46.15 | 50.11 | 54.07 | 58.04 |
| 4.72 | 0.97 | 1.34 | 1.71 | 2.08 | 2.45 | 2.81 | 3.18 | 3.55 | 3.92 | 4.29 | 4.66 | 5.02 | 5.39 |

Height in Inches and Meters

Upper Numerals English Units/Lower Numerals Metric Units