

Construction Specialties Inc. certifies that the louver model B5157 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 and water penetration ratings.

TEST DATA:

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

- Free area = 8.42 ft² (0.782 m²)
- Percent free area = 52.6%
- Free area velocity at the point of beginning water penetration (@0.01oz./ft² of free area based on a 15 minute interval test) = 1043 FPM (5.30 m/s)
- Maximum recommended air intake velocity = 843 FPM (4.28 m/s)
Air volume @ 843 FPM free area velocity = 7098 CFM (3.35 m³/s)
Pressure drop @ 843 FPM intake velocity = 0.29 in. H₂O (72.0 Pa H₂O)
- Maximum recommended air exhaust velocity = 1225 FPM (6.22 m/s)
Air Volume @ 1225 FPM free area velocity = 10315 CFM (4.87 m³/s)
Pressure drop @ 1225 FPM free area velocity = 0.50 in. H₂O (124.2 Pa H₂O)



SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 5" (127.0 mm) DRAINABLE SIGHTPROOF ARCH. LINE LOUVER MODEL B5157 as manufactured by Construction Specialties, Inc. Cranford and Mississauga, Ontario. Complete details shall be submitted to the architect for approval prior to fabrication.

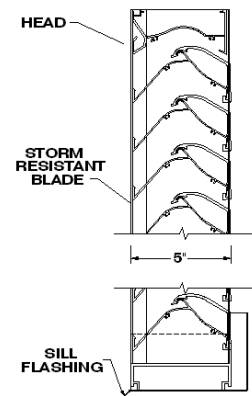
MATERIAL: Heads, sills, jambs and mullions to be one piece structural members of 6063-T6 alloy with integral caulking slot and retaining beads. Mullions shall be sliding interlocking type. Blades to be one piece extrusions with reinforcing bosses. Extrusion thickness shall be as follows: Heads, Sills, jambs, mullions and fixed blades to be: 0.081" (2.06 mm). Optional: jambs, mullions 0.125" (3.18mm). All fasteners to be non-corrosive. 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. 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 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.)

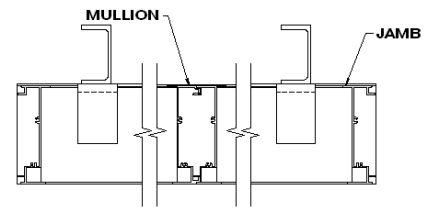
TEST DATA: The louver manufacturer shall submit test data on a 4' x 4' (1.22 m x 1.22 m) unit showing that the louver conforms to the following: (Based on a 15 min. test duration)

| | |
|--|---|
| Free area: | 8.42 ft ² (0.782 m ²) |
| Free area velocity @ point of beginning water penetration (0.01 oz./ft ²): | 1043 FPM (5.30 m/s) |
| Intake pressure drop at 0.01 oz. ft ² free area velocity: | 0.45 in. H ₂ O (111.0 Pa H ₂ O) |
| Exhaust pressure drop at 1000 FPM (5.08 m/s) free area velocity : | 0.32 in. H ₂ O (79.4 Pa H ₂ O) |

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 2605-5** "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.



SECTION VIEW



PLAN VIEW

PERFORMANCE DATA MODEL B5157

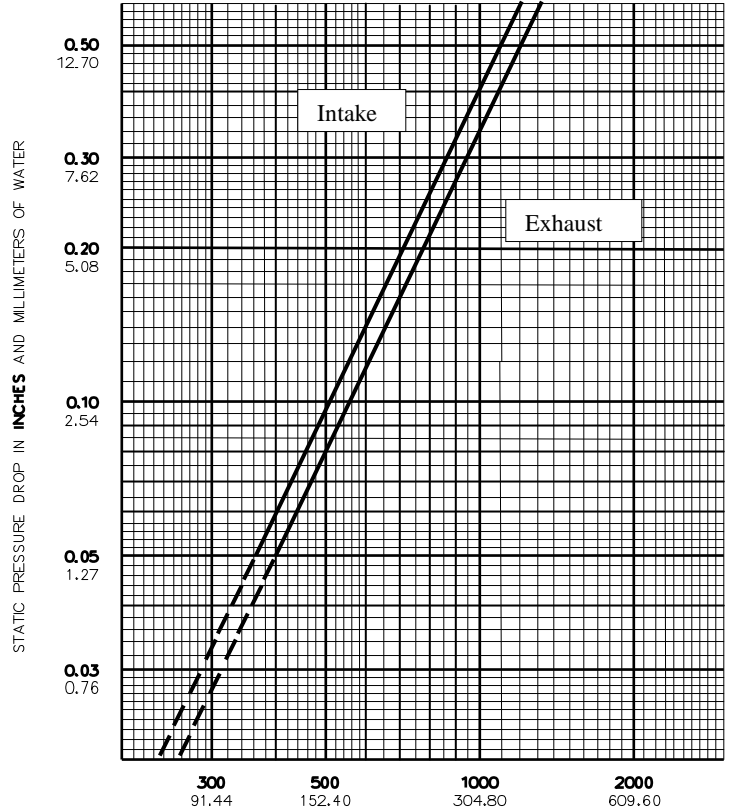
Water Penetration Statement

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 | |
| 18 | 0.82 | 1.15 | 1.48 | 1.82 | 2.15 | 2.49 | 2.82 | 3.16 |
| 0.46 | 0.08 | 0.11 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.29 |
| 24 | 1.30 | 1.84 | 2.38 | 2.91 | 3.45 | 3.98 | 4.52 | 5.05 |
| 0.61 | 0.12 | 0.17 | 0.22 | 0.27 | 0.32 | 0.37 | 0.42 | 0.47 |
| 30 | 1.63 | 2.30 | 2.97 | 3.64 | 4.31 | 4.98 | 5.65 | 6.32 |
| 0.76 | 0.15 | 0.21 | 0.28 | 0.34 | 0.40 | 0.46 | 0.52 | 0.59 |
| 36 | 1.97 | 2.78 | 3.59 | 4.40 | 5.20 | 6.01 | 6.82 | 7.63 |
| 0.91 | 0.18 | 0.26 | 0.33 | 0.41 | 0.48 | 0.56 | 0.63 | 0.71 |
| 42 | 2.45 | 3.45 | 4.45 | 5.46 | 6.46 | 7.47 | 8.47 | 9.47 |
| 1.07 | 0.23 | 0.32 | 0.41 | 0.51 | 0.60 | 0.69 | 0.79 | 0.88 |
| 48 | 2.77 | 3.91 | 5.05 | 6.19 | 7.32 | 8.42 | 9.60 | 10.74 |
| 1.22 | 0.26 | 0.36 | 0.47 | 0.57 | 0.68 | 0.78 | 0.89 | 1.00 |
| 54 | 3.26 | 4.60 | 5.94 | 7.28 | 8.62 | 9.96 | 11.29 | 12.63 |
| 1.37 | 0.30 | 0.43 | 0.55 | 0.68 | 0.80 | 0.92 | 1.05 | 1.17 |
| 60 | 3.59 | 5.06 | 6.53 | 8.01 | 9.48 | 10.95 | 12.42 | 13.90 |
| 1.52 | 0.33 | 0.47 | 0.61 | 0.74 | 0.88 | 1.02 | 1.15 | 1.29 |
| 66 | 3.93 | 5.54 | 7.15 | 8.76 | 10.37 | 11.99 | 13.60 | 15.21 |
| 1.68 | 0.36 | 0.51 | 0.66 | 0.81 | 0.96 | 1.11 | 1.26 | 1.41 |
| 72 | 4.40 | 6.21 | 8.02 | 9.83 | 11.63 | 13.44 | 15.25 | 17.05 |
| 1.83 | 0.41 | 0.58 | 0.74 | 0.91 | 1.08 | 1.25 | 1.42 | 1.58 |
| 78 | 4.73 | 6.67 | 8.61 | 10.55 | 12.49 | 14.44 | 16.38 | 18.32 |
| 1.98 | 0.44 | 0.62 | 0.80 | 0.98 | 1.16 | 1.34 | 1.52 | 1.70 |
| 84 | 5.22 | 7.36 | 9.50 | 11.64 | 13.79 | 15.93 | 18.07 | 20.21 |
| 2.13 | 0.48 | 0.68 | 0.88 | 1.08 | 1.28 | 1.48 | 1.68 | 1.88 |
| 90 | 5.54 | 7.82 | 10.10 | 12.37 | 14.65 | 16.92 | 19.20 | 21.48 |
| 2.29 | 0.52 | 0.73 | 0.94 | 1.15 | 1.36 | 1.57 | 1.78 | 2.00 |
| 96 | 5.88 | 8.30 | 10.71 | 13.13 | 15.54 | 17.96 | 20.37 | 22.79 |
| 2.44 | 0.55 | 0.77 | 1.00 | 1.22 | 1.44 | 1.67 | 1.89 | 2.12 |
| 102 | 6.36 | 8.97 | 11.58 | 14.19 | 16.80 | 19.41 | 22.02 | 24.63 |
| 2.59 | 0.59 | 0.83 | 1.08 | 1.32 | 1.56 | 1.80 | 2.05 | 2.29 |
| 108 | 6.69 | 9.43 | 12.18 | 14.92 | 17.66 | 20.41 | 23.15 | 25.90 |
| 2.74 | 0.62 | 0.88 | 1.13 | 1.39 | 1.64 | 1.90 | 2.15 | 2.41 |
| 114 | 7.18 | 10.12 | 13.07 | 16.01 | 18.96 | 21.90 | 24.85 | 27.79 |
| 2.90 | 0.67 | 0.94 | 1.21 | 1.49 | 1.76 | 2.03 | 2.31 | 2.58 |
| 120 | 7.50 | 10.58 | 13.66 | 16.74 | 19.82 | 22.90 | 25.98 | 29.06 |
| 3.05 | 0.70 | 0.98 | 1.27 | 1.56 | 1.84 | 2.13 | 2.41 | 2.70 |
| 126 | 7.84 | 11.06 | 14.28 | 17.50 | 20.71 | 23.93 | 27.15 | 30.37 |
| 3.20 | 0.73 | 1.03 | 1.33 | 1.63 | 1.92 | 2.22 | 2.52 | 2.82 |
| 132 | 8.32 | 11.73 | 15.14 | 18.56 | 21.97 | 25.39 | 28.80 | 32.21 |
| 3.35 | 0.77 | 1.09 | 1.41 | 1.72 | 2.04 | 2.36 | 2.68 | 2.99 |
| 138 | 8.64 | 12.19 | 15.74 | 19.29 | 22.83 | 26.38 | 29.93 | 33.48 |
| 3.51 | 0.80 | 1.13 | 1.46 | 1.79 | 2.12 | 2.45 | 2.78 | 3.11 |
| 144 | 9.13 | 12.88 | 16.63 | 20.38 | 24.13 | 27.88 | 31.62 | 35.37 |
| 3.66 | 0.85 | 1.20 | 1.54 | 1.89 | 2.24 | 2.59 | 2.94 | 3.29 |
| 150 | 9.46 | 13.34 | 17.22 | 21.11 | 24.99 | 28.87 | 32.75 | 36.64 |
| 3.81 | 0.88 | 1.24 | 1.60 | 1.96 | 2.32 | 2.68 | 3.04 | 3.40 |
| 156 | 9.80 | 13.82 | 17.84 | 21.86 | 25.88 | 29.91 | 33.93 | 37.95 |
| 3.96 | 0.91 | 1.28 | 1.66 | 2.03 | 2.40 | 2.78 | 3.15 | 3.53 |
| 162 | 10.27 | 14.49 | 18.71 | 22.93 | 27.14 | 31.36 | 35.58 | 39.79 |
| 4.11 | 0.95 | 1.35 | 1.74 | 2.13 | 2.52 | 2.91 | 3.31 | 3.70 |
| 168 | 10.60 | 14.95 | 19.30 | 23.65 | 28.00 | 32.36 | 36.71 | 41.06 |
| 4.27 | 0.98 | 1.39 | 1.79 | 2.20 | 2.60 | 3.01 | 3.41 | 3.81 |
| 174 | 11.09 | 15.64 | 20.19 | 24.74 | 29.30 | 33.85 | 38.40 | 42.95 |
| 4.42 | 1.03 | 1.45 | 1.88 | 2.30 | 2.72 | 3.14 | 3.57 | 3.99 |
| 180 | 11.42 | 16.10 | 20.79 | 25.47 | 30.16 | 34.84 | 39.53 | 44.22 |
| 4.57 | 1.06 | 1.50 | 1.93 | 2.37 | 2.80 | 3.24 | 3.67 | 4.11 |
| 186 | 11.75 | 16.58 | 21.40 | 26.23 | 31.05 | 35.88 | 40.70 | 45.53 |
| 4.72 | 1.09 | 1.54 | 1.99 | 2.44 | 2.88 | 3.33 | 3.78 | 4.23 |
| 192 | 12.23 | 17.25 | 22.27 | 27.29 | 32.31 | 37.33 | 42.35 | 47.37 |
| 4.88 | 1.14 | 1.60 | 2.07 | 2.54 | 3.00 | 3.47 | 3.93 | 4.40 |
| 198 | 12.56 | 17.71 | 22.87 | 28.02 | 33.17 | 38.33 | 43.48 | 48.64 |
| 5.03 | 1.17 | 1.65 | 2.12 | 2.60 | 3.08 | 3.56 | 4.04 | 4.52 |

Height in Inches and Meters

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

For a 48" X 48" sized louver

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Upper Numerals English Units/Lower Numerals Metric Units

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