Constructions 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 (1,311 FPM)
- Intake pressure drop 91.9 Pa (0.37 in H₂O)
- Intake capacity 3.5 m³/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 H₂O)
- Intake capacity 3.5 m³/s (7,257 CFM)

* louver tested with 1 m² 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 ft² (0.70 m²)
- Percent free area = 46.6%
- Free area velocity at the point of beginning water penetration (@0.01 oz./ft² 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 (37.7 m³/s)
- Pressure drop @ 1050 FPM intake velocity = 0.24 in. H₂O (58.9 Pa)
- Maximum intake air exhaust velocity = 1,468 FPM (7.5 m/s)
- Air Volume @ 1,468 FPM free area velocity = 10,951 CFM (5.2 m³/s)
- Intake Pressure Drop @ 1,468 FPM free area velocity = 0.50 in. H₂O (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 3/8” (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 203 mm/hr rainfall and 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.

**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.

**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.

To download details and specifications visit www.c-sgroup.com. For technical and design assistance call 800-631-7379
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

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

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Upper Numerals English Units/Lower Numerals Metric Units

RS-6700-03