

Engineering Evaluation Report

Construction Specialties Model DC-3704 Aluminum Louver

Manufacturer:

Construction Specialties, Inc., 49 Meeker Avenue, Cranford, NJ 07016

Product Line:

Construction Specialties Model DC-3704 Aluminum Louver

Compliance Method:

The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Community Affairs for Statewide Acceptance per Rule 61G20-3 of the Florida Administrative Code, and with the Florida Building Code, 8th Edition (2023).

Product Description:

Aluminum louvers with fixed vertical blades with butt-type frame corner construction. Blades for all specimens consisted of 6063-T6 aluminum. Frames for all specimens consisted of 6063-T6 aluminum.

Performance Summary:

Product tested design pressure was +/- 120 PSF and +/- 90 PSF. Products passed ANSI/AMCA Standard 540-23 (including TAS 203-94) at Enhanced Impact Missile Level E (80 fps impact speed). Product passed ANSI/AMCA Standard 550-15. Product passed TAS 201-94, TAS 202-94, and TAS 203-94. Product can be used inside and outside of the HVHZ and are impact resistant.

Performance Standards:

1. ANSI/AMCA Standard 540-23, Test Method for Louvers Impacted by Wind Borne Debris. ANSI/AMCA 540-23 is more stringent and is acceptable in lieu of ANSI/AMCA 540-13.
2. ANSI/AMCA Standard 550-15, Test Method for High Velocity Wind Driven Rain Resistant Louvers
3. FBC TAS 201-94, Impact Test Procedures
4. FBC TAS 202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Static Uniform Air Pressure
5. FBC TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading

Supporting Technical Documents:

1. Approval Documents:
 - a. Construction Specialties Drawing Number RD-7444 Revision 1 dated 03-14-24.
2. Listing Documents:
 - a. AMCA License Agreement to use the AMCA listing Label for ANSI/AMCA 540-23 (Enhanced Impact Missile Level E, 80 fps) approved on February 01, 2024, and ANSI/AMCA 550-15 (Test Method for High Velocity Wind Driven Rain Resistant Louvers) approved on February 11, 2025.
3. Test Reports:
 - a. Q8700.01-109-18 signed and sealed on 06/18/2024 by Tanya A. Dolby, P.E. of Architectural Testing, Inc., York, PA
 - b. Q6270.01-109-44 signed and sealed on 02/01/2024 by Tanya A. Dolby, P.E. of Architectural Testing, Inc., York, PA
 - c. M3012.01-109-44 R1 signed and sealed on 02/11/2025 by Tanya A. Dolby, P.E. of Architectural Testing, Inc., York, PA

d.

Limits of Conditions and Use:

1. Limits/Conditions are as per the above approval and listing documents.
2. This louver system has been tested, analyzed, and approved for design pressures up to and including +/- 120 PSF. Any louver height of 8' or less is approved for wind loads 120 PSF or less. For louver heights greater than 8' but less than 10', maximum design wind load is limited to 90 PSF.
3. Product is rated to be used inside and outside of the HVHZ.
4. Product is impact resistant for both Basic Impact Missile D (50 psf) and Enhanced Impact Missile E(80 fps impact speed).
5. Product has 6063-T6 blade material. Product has 6063-T6 frame material.
6. Product may be installed in a location where the room behind the louver is NOT designed to drain water penetrating into the room and the room will house NON-water resistant/proof equipment, components, and/or supplies.

Installation:

Product must be installed in accordance with the above approval documents.

Certificate of Independence:

Rice Engineering, Inc. and Wayne Helmila, P.E. do not have and will not acquire a financial interest in any company manufacturing or distributing the product for which this report is being issued. Rice Engineering, Inc. and Wayne Helmila, P.E. do not have and will not acquire a financial interest in any other entity involved in the approval process of the above-listed product.

Statement of Standard Equivalency:

Evaluation Report By and P.E. Stamp:



04/17/2026
COA: 9090

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