

## 1. Design Criteria

- a. Design consultant is responsible for reviewing air infiltration and water resistance standards that shall apply to the exterior doors in the project with the UVM project manager. ASTM E 283 shall be used as a basis for air infiltration testing and ASTM E 331 shall be used as a basis for water resistance testing. These standards shall be included in the specifications to establish thresholds for acceptable installation during construction, depending on the determined applicability to the project by the design consultant and UVM project manager.
- b. Finish Coordination: It is critical that metal composite wall panels, aluminum framed entrances and storefronts, fire-rated aluminum storefront framing, metal soffits, and louvers have the same finish, color and coating system; obtain finish system from the same source for color and finish uniformity.
- c. Rail caps or other face sheet capture methods are not acceptable.
- d. Glue: Use of glue to bond sheet to core or extrusions is not acceptable.
- e. Tubular framing for exterior aluminum door systems shall be thermally broken
- f. Lites in exterior doors shall allow for thermal expansion.
- g. Keying of doors shall match UVM's key core standard Kaba Peaks SCIF.
- h. Stiles and rails shall be sized to accommodate specified hardware attachment.

## 2. References

- a. ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- b. ASTM E334 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- c. ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- d. ASTM E1886 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
- e. ASTM E2068 Standard Test Method to Determine the Operating and Breakaway Forces of Sliding Windows and Doors.
- f. SFBC 3603.2 Forced Entry Test
- g. SFBC PA 203 Cyclic Load Test

Revised Date: 11/10/2023

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- h. SFBC PA 201 Large Missile Impact Test
- i. AAMA 1304 Voluntary Specification for Determining Forced Entry Resistance of Side Hinged Door Systems
- j. AAMA 150309 – Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections.
- k. AAMA 50715 – Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems in Commercial Buildings.
- l. AAMA 260513 – Voluntary Specification, Performance Requirements, and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- m. AAMA 61114 – Voluntary Specification for Anodized Architectural Aluminum.
- n. Cycle Slam Test Method, NWWDA T.M. 7

