

ARCH[®]

RESISTOR IMPACT SERIES

IMPACT DOOR 3000

LARGE MISSILE

MEDIUM STILE ENTRANCE



APPROVED

GUIDE SPECIFICATIONS* DIVISION 08 – OPENINGS

Section 08 42 13 Aluminum-Framed Entrances (or) Section 08 88 19 Hurricane-Resistant Glazing

SPECIFIER NOTE: As a true *Single-Source Supplier* of architectural aluminum and glass products, Arch recommends combining glass and framing requirements in this proprietary specification section. The following Guide Specifications represent independent laboratory tests and Metro-Dade County, FL Product Notice of Acceptance for Arch's Resistor Impact Series – (hurricane resistant products) as herein described. Approval certification is based on the “complete system” of aluminum and glass products described; as manufactured by Arch Aluminum & Glass Co., Inc. ensuring Single-Source responsibility.

PART I – GENERAL

1.01 Summary

A. Section includes:

Arch Aluminum & Glass Co., Inc. Hurricane-Resistant Aluminum Entrance Door, Glass & Glazing, Door Hardware, and Components

1. Model Types of Arch Aluminum Entrances include:
 - a. **Medium Stile** Swing Door and Doorframe
3½” Stile Width x 1¾” Depth
 - b. 7/16” Laminated Door Glass
 - c. 9/16” Laminated Doorframe Transom Glass

The Current Miami-Dade County Product Approval is:

Notice of Acceptance: **05-0829.08**
Approval Date: January 05, 2006
Expiration Date: March 17, 2010

The Current Florida State Product Approval is **FL-6350.1**

This “SYSTEM” is designed to comply with the requirements of the High-Velocity Hurricane Zone of the Florida Building Code (FBC). For locations where the pressure requirements do not exceed the Design Pressure Rating values indicated in the approved drawings, refer to the above referenced NOA drawings and charts for accepted configurations, limits, anchor requirements, and allowable door hardware.

B. Related Sections:

1. 08 32 13 Sliding Aluminum-Framed Glass Doors
2. 08 42 26 All-Glass Entrances
3. 08 43 13 Aluminum-Framed Storefronts
4. 08 44 13 Glazed Aluminum Curtain Walls
5. 08 80 00 Glazing

1.02 References (Industry Standards)

- A. American Society for Testing and Materials (ASTM)
1. ASTM E 283 Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Wall, and Doors
 2. ASTM E 330 Test Method for Structural Performance of Exterior Windows, Curtain Wall, and Doors by Uniform Static Air Pressure Difference
 3. ASTM E 331/E 547 Water Penetration of Exterior Window, Curtain Walls and Doors by Uniform (E331)/ Cyclic (E547) Static Air Pressure Difference.
 4. ASTM E 1300 Standard Practice for Determining Load Resistance of Glass in Buildings.
 5. ASTM E 1886 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Differential Pressure.
 6. ASTM E 1996 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricane
 7. ASTM C 1036 Standard Specification for Flat Glass
 8. ASTM C 1048 Standard Specification for Heat-Treated Flat Glass – Kind HS, Kind FT Coated and Uncoated Glass
 9. ASTM C1172 Standard Specification for Laminated Architectural Flat Glass
- B. American National Standards Institute (ANSI)
1. ANSI Z97.1 Standards for Glazing Materials used in Buildings – Safety Performance Specifications & Methods of Test
- C. Consumer Products Safety Commission (CPSC)
1. 16CFR 1201 Safety Standard for Architectural Glazing Materials
- D. Florida Building Code (FBC), High-Velocity Hurricane Zone
1. TAS 201-94, Test Criteria for Large Missile Impact
 2. TAS 202-94, Test Criteria for:
 - a. Air Infiltration
 - b. Uniform Static Air Pressure
 - c. Water Resistance
 - d. Forced Entry Test
 3. TAS 203-94, Test Criteria for Cyclic Wind Pressure
- E. American Architectural Manufacturers Association (AAMA)
1. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum
 2. AAMA 2603 Voluntary Specification for Performance Requirements and Test procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
 3. AAMA 2604 Voluntary Specification for Performance Requirements and Test procedures for High-Performance Organic Coatings on Aluminum Extrusions and Panels
 4. AAMA 2605 Voluntary Specification for Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

1.03 System Description

A. Entrance Performance Requirements:

1. ASTM E 283, Air Infiltration:
 - a. Single 3'-0" x 7'-0" Entrance Door & Frame: When tested in accordance with ASTM E 283 at a pressure differential of 6.24 PSF, a single acting offset pivoted or butt hinged entrance door and frame in the closed and locked position shall not exceed 0.50 CFM per linear foot of perimeter crack.
 - b. Pair 6'-0" x 7'-0" Entrance Door & Frame: When tested in accordance with ASTM E 283 at a pressure differential of 1.567 PSF, a single acting offset pivoted or butt hinged entrance door and frame in the closed and locked position shall not exceed 1.0 CFM per linear foot of perimeter crack.
2. When tested in accordance with Florida Building Code High-Velocity Hurricane Zones TAS protocols, aluminum entrances shall be designed, certified, and labeled to be in compliance with the standards of "Large and Small Missile Impact".

1.04 Submittals

A. General: Prepare and submit specified submittals in accordance with "Division 1 General Requirements, Submittal Procedures" as therein defined and including but not limited to; product data and specifications, shop drawings, finish colors, samples, quality assurance documents, product certificates, and manufacturer's installation instructions.

1.05 Quality Assurance

A. Qualifications:

1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to the manufacturer.
2. Manufacturer Qualifications:
 - a. **Single-Source:** Manufacturer capable of providing fully tested and certified Hurricane-Resistant ALUMINUM and GLASS SYSTEM as a Single Source supplier.
 - b. Manufacturer capable of providing field service representation during construction, approving acceptable installer, and approving application method.

B. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

1.06 Delivery, Storage and Handling

- A. Comply with Section 01 60 00 Product Requirements.
- B. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Handle packages with care to avoid damaging contents. Do not drop packages from any height.
- D. Storage and Protection: Store materials off ground and protect from exposure to detrimental weather conditions, other construction trades and activities. Stack materials neatly and evenly and avoid crushing packages.

1.07 Warranty

A. Project Warranty: Refer to "Division 1 General Requirements, Work Covered by Contract Documents" for project warranty conditions.

B. Manufacturer's Product Warranty: Submit, for Owner's acceptance, manufacturer's product warranty for Entrance & Storefront Systems as follows:

1. Resistor Impact Door 3000 Medium Stile Large Missile, Hurricane –Resistant Entrance Door and Glass Systems shall be guaranteed against defects in materials and/or workmanship for a period of two (2) years from date of shipment.

PART 2 – PRODUCTS

2.01 Manufacturers (Acceptable Manufacturers & Products)

A. Manufacturer: Arch Aluminum & Glass Co., Inc.
Address: 10200 N.W. 67th Street
Tamarac, FL 33321
Contact: Telephone: (800) 432-8132
Facsimile: (954) 724-9637
Website: www.archaluminum.net

B. Product(s)

1. Hurricane-Resistant Entrance System:
Resistor Impact Series, Impact Door 3000 Medium Stile Large Missile Entrance and Glass System

C. Substitutions:

[Specifier Note: Use of the phrase "or equal" / "or approved equal," or other similar phrases may likely eliminate Single-Source manufacturer responsibility. Where certified hurricane-resistant products are concerned, such phrases require extensive fiduciary responsibilities (procedural, legal, and regulatory) for determining "or equal."]

1. General: Refer to "Division 1 General Requirements, Work Covered by Contract Documents" for procedures and submission requirements.

2.02 Materials

A. Aluminum – Framed Entrances & Storefronts

1. Door and frame sections shall conform to the Material Standards of ASTM B 221; 6063 – T5 Alloy & Temper
2. The door stile and rail profile dimensions for the Resistor Impact Series, Impact Door 3000 Medium Stile Large Missile shall be:

Vertical Stiles	Top Rail	Bottom Rail	Optional Bottom Rails
3½"	3½"	5"	7½" or 10"
3. Major portions of the door stiles and rails are to be .125" in nominal thickness. Glazing moldings are to be 0.05" thick.
4. The frame profile dimensions will be:
Vertical & Horizontal Mullions: 1¼" x 4½"
Horizontal Mullion for Concealed Overhead Closer: 1¾" x 4½"

B. Glazing Components:

1. Gaskets shall be either extruded EPDM or thermoplastic elastomer.
2. Sealing Tape shall be Norton V-2100.
3. Sealant shall be Dow-Corning® 995 Structural Silicone

C. Glass setting and side blocks shall be provided to center and square the door glass within the door.

D. **Door Glass** shall be 7/16" (nominal) Heat-strengthened Laminated Glass as manufactured by Arch Aluminum & Glass Co., Inc. consisting of:

- One Lite of 3/16" Heat-strengthened glass x
- One .090" Saflex® Keepsafe (PVB) inter-layer by Solutia® x
- One Lite of 3/16" Heat-strengthened glass

E. **Doorframe Transom Glass** shall be 9/16" (nominal) Heat-strengthened Laminated Glass as manufactured by Arch Aluminum & Glass Co., Inc. consisting of:

One Lite of 1/4" Heat-strengthened glass x
 One .090" Saflex® Keepsafe (PVB) inter-layer by Solutia® x
 One Lite of 1/4" Heat-strengthened glass

a. Laminated Glass Composition:

1. OUTBOARD PANE:

Door Glass = 3/16" Heat-strengthened:
 Transom Glass = 1/4" Heat-strengthened:
 Conforming to ASTM C 1048 and fabricated from flat glass products defined as:

[Specifier Note: Amend Paragraphs below to suit project requirements]

- A. ___ Clear: ASTM C 1036 Sections 4.1.1, 4.1.1.1 (Type 1 – Transparent Glass, Flat, Class 1, Clear)
- B. ___ Other: ASTM C 1036 Section 4.1.1.2 (Class 2 – Tinted, Heat Absorbing and Light Reducing)
 - 1. ___ Solar light Transmittance
 - 2. ___ Visible light Transmittance
 - 3. ___ Solar Reflectance (Front Surface)
 - 4. ___ Solar Reflectance (Back Surface)
 - 5. ___ Visible Reflectance (Front Surface)
 - 6. ___ Visible Reflectance (Back Surface)
 - 7. ___ Shading coefficient (SC)
 - 8. ___ Solar Heat Gain Coefficient
 - 9. ___ UV screening, up to 380 nm
 - 10. ___ Specific gravity
 - 11. ___ Thermal conductivity (U value)
 - 12. ___ Coefficient of thermal expansion
 - 13. ___ Emissivity (Front Surface)
 - 14. ___ Emissivity (Back Surface)

2. INTERLAYER & ALLOWABLE DESIGN PRESSURES FOR DOOR GLAZING TYPES:

[Specifier Note: Amend Paragraphs below to suit project requirements]

- | | ALLOWABLE
PRESSURE (PSF) |
|--|-----------------------------|
| For 7/16" Door Glass: (Select Type) | |
| A. ___ Solutia® Saflex® HP, 0.100" PVB: | ± 85 |
| B. ___ DuPont® SentryGlas® Plus, 0.090" ionoplast: | ± 85 |
| C. ___ Solutia® Saflex® Keepsafe Max, 0.090" PVB: | ± 80 |
| D. ___ Monsanto (Solutia®), 0.090" PVB: | ± 70 |
| (Select Aesthetics) | |
| 1. ___ Clear | |
| 2. ___ Tint (color): _____ | |
| 3. ___ Transparency: | |
| a. ___ Clear | |
| b. ___ Other: _____ | |

- For 9/16" Transom Glass:
- A. ___ Solutia® Saflex® HP, 0.100" PVB: ± 85
 - B. ___ DuPont® SentryGlas® Plus, 0.090" ionoplast: ± 85
 - C. ___ Solutia® Saflex® Keepsafe Max, 0.090" PVB: ± 85
- (Select Aesthetics)
- 1. ___ Clear
 - 2. ___ Tint (color): _____
 - 3. ___ Transparency:
 - a. ___ Clear
 - b. ___ Other: _____

3. INBOARD PANE:

Door Glass = 3/16" Heat-strengthened:
 Transom Glass = 1/4" Heat-strengthened:
 Conforming to ASTM C 1048 and fabricated from flat glass products defined as:

[Specifier Note: Amend Paragraph below to suit project requirements]

- A. ___ Clear: ASTM C 1036 Sections 4.1.1, 4.1.1.1 (Type 1 – Transparent Glass, Flat, Class 1, Clear)
- B. ___ Other: ASTM C 1036 Section 4.1.1.2 (Class 2 – Tinted, Heat Absorbing and Light Reducing)
 - 1. ___ Solar light Transmittance
 - 2. ___ Visible light Transmittance
 - 3. ___ Solar Reflectance (Front Surface)
 - 4. ___ Solar Reflectance (Back Surface)
 - 5. ___ Visible Reflectance (Front Surface)
 - 6. ___ Visible Reflectance (Back Surface)
 - 7. ___ Shading coefficient (SC)
 - 8. ___ Solar Heat Gain Coefficient
 - 9. ___ UV screening, up to 380 nm
 - 10. ___ Specific gravity
 - 11. ___ Thermal conductivity (U value)
 - 12. ___ Coefficient of thermal expansion
 - 13. ___ Emissivity (Front Surface)
 - 14. ___ Emissivity (Back Surface)

2.03 Accessories

A. Fasteners: Exposed fasteners shall be aluminum, stainless steel, or plated steel.

B. Perimeter anchors: Perimeter anchors shall be aluminum, stainless steel, or plated steel. Where steel anchors are used, provide insulation between steel and aluminum materials to prevent galvanic action.

C. **Standard Hardware Options** Resistor Impact Door 3000 Medium Stile Large Missile

Single Leaf and/or Pair of Doors

[Specifier Note: The following selections are approved and thereby covered by the Product Control Notice of Acceptance]

- 1. Weather-stripping:
 - a. Meeting stiles on pairs of doors shall be fitted with wool pile and/or polymeric weathering.
 - b. Doorframe weathering for single acting (single or pair) doors shall be on the two vertical sides and along the top of the doorframe and shall be wool pile with a semi-rigid polymeric backing.

[Specifier Note: Select Option(s) below to suit project requirements]

- 2. ___ Threshold: One piece, mill finish, 4" x 1/2" extruded aluminum with ribbed surface per door opening.
- 3. ___ A.D.A. Bumper Threshold: One piece, mill finish, weathered 4" x 1/4" x 1/2" bumper, extruded aluminum with ribbed surface per door opening.
- 4. ___ A.D.A. Bumper Threshold: One piece, mill finish, weathered 5" x 1/4" x 1/2" bumper, extruded aluminum with ribbed surface per door opening.
- 5. ___ 1 1/2" Pair Offset Pivots: 3/4" Offset type; top, intermediate, and bottom.
- 6. ___ 1 1/2" Pair Brass Butt Hinges: 4 1/2" x 4" top, intermediate, and bottom five-knuckle, two ball bearing, radius corner, fully mortised hinges.
- 7. ___ Continuous Hinge: Full height, non-handed, half-surface, anodized aluminum geared hinge. Hinge shall be a pin-less assembly of three interlocking aluminum extrusions applied to the full height of the door and frame without mortising and shall bear the vertical door load through a full 180°. Fasteners shall be hardened, plated steel.

D. **Standard** Resistor Impact Door 3000 Medium Stile Large Missile Entrance Locking Hardware:

1. **Single Doors:** Integral Three-Point Lock consisting of AR 1^{1/8}" backset Maximum Security Dead Lock with AR4015 & AR4016 top & bottom bolts with beveled face plate.
 - a. One, 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior and one, thumb-turn cylinder on interior
2. **Pair of Doors:**
 - a. **ACTIVE LEAF:** Integral three-point lock consisting of AR 1^{1/8}" backset Maximum Security Dead Lock with AR4015 & AR4016 top & bottom bolts with radius face plate.
 1. One, 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior with thumb-turn cylinder on interior.
 - b. **INACTIVE LEAF:** AR1880 thumb-turn operated flush bolts.
3. **Push / Pull: (Standard)**
 - a. **Non-Panic Doors:** Solid 1" round anodized aluminum Push Bar x 1" round x 90° offset x 10" centers Pull Handle.
 - b. **Panic Doors:** Solid 1" round x 90° offset x 10" centers Pull Handle, exterior.

E. **Optional Panic Hardware** Resistor Impact Door 3000 Medium Stile - Large Missile Entrance
Single Leaf and/or Pair of Doors

The following *Optional* items are covered by Miami-Dade Notice of Acceptance No. 04-1208.01

[Specifier Note: Amend Paragraph below to suit project requirements.]

1. ___ Adams Rite® # G86 Concealed Vertical Rod Touch Bar Exit Device (ANSI 156.3, Grade 1)
 - a. One, # 8651 Escutcheon (cylinder mounting pad)
 - b. One, 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior*
*Single Doors or Active Leaf of Pair of Doors
2. ___ Dor-O-Matic® # EL 1490 Concealed Vertical Rod Touch Bar Exit Device (Electrified version including monitor switch)
 - a. One, 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior*
 - b. ___ HB Cam (Hold Back function)*
 - c. ___ NL Cam (Night Latch function)*
*Single Doors or Active Leaf of Pair of Doors
3. ___ Jackson® # 1085 Concealed Vertical Rod Crash Bar Exit Device
 - a. One, # 30-821J Escutcheon (cylinder mounting pad)
 - b. One, 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior*
*Single Doors or Active Leaf of Pair of Doors
4. ___ Jackson® # 2086 Concealed Vertical Rod Touch Bar Exit Device
 - a. One, # 30-821J Escutcheon (cylinder mounting pad)
 - b. One, 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior*
*Single Doors or Active Leaf of Pair of Doors
5. ___ Von Duprin® # EL9947 Concealed Vertical Rod Touch Bar Exit Device with Electric Latch Retraction (ANSI 156.3 – 2001, Grade 1)

a. ___ NL-OP (ANSI Function 03) Night Latch, Key Retracts Bolts*

*Single Doors or Active Leaf of Pair of Doors

1. One, # 3216 Rim Cylinder: 1^{5/32}" diameter key-operated, five pin lock cylinder on exterior
 - b. ___ EO (ANSI Function 01) Exit Only: Single Doors and/or Inactive Leaf or Pair of Doors, or Pair of Doors
 - c. ___ One Each Leaf, # EPT-2 Electric Power Transfers.
 - d. ___ One Each, # PS873 Power Supply
6. ___ Panic Hardware Finish: (specify) _____

F. **Optional Hardware** Resistor Impact Door 3000 Medium Stile Large Missile Entrance – Single Leaf and/or Pair of Doors

[Specifier Note: Amend Paragraph below to suit project requirements. Optional items conform to Miami-Dade Product Approval]

1. ___ Armored dead lock Strike (non-panic doors)
2. ___ Exit Indicator (non-panic doors)
3. ___ Keyed Alike Cylinders
4. ___ Dummy Cylinders (non-panic doors)
5. ___ Cylinder Guard (non-panic doors)
6. ___ Push / Pull: [specify type]
7. ___ Closer:
___ Surface Mount [specify type]
___ Concealed Overhead [specify type]
8. ___ Bottom Rail Sweep Strip: Height adjustable, exterior surface applied sweep strip containing an extruded EPDM or thermoplastic gasket sweep within an aluminum housing applied to the bottom rail of the door with concealed fasteners. Finish of aluminum sweep to match the entrance.

2.04 Related Materials

- A. Sealants: Refer to Section 07 92 00 Joint Sealants
B. Hardware: Refer to Division 08 70 00 Hardware
C. Glass and Glazing: Refer to Division 08 80 00 Glazing

2.05 Fabrication

A. Resistor Impact Door 3000 Medium Stile Large Missile Entrance Door System Fabrication:

1. Door corners shall consist of mortised and reinforced construction and door shall be assembled with concealed 3/8" (9.5mm) diameter plated steel tension rods and lock nuts for maximum strength.
2. Glazing stops shall consist of square horizontal and vertical extruded aluminum hook and snap-in sash type, tamper resistant and set with Norton® V-2100 tape and Dow-Corning® 995 Structural Silicone.
3. Fabricate and assemble components to produce accurately fitted and hairline joints.
4. Components shall be factory fabricated and reinforced as required for hardware indicated using concealed fasteners to greatest extent possible.

B. **Limitations:** Miami-Dade County Product Control Approval

1. Product approvals apply to single unit applications of pair of doors and single door only as illustrated in approved Product Approval Drawings.
 - a. **Refer to current Product Notice of Acceptance** for: Approved sizes and configurations, Structural Loads, Design Pressures, operating hardware types, fastener types and locations based on substrate types, and applicable installation locations.

b. This Entrance System may be used in conjunction with similarly approved Miami-Dade County Framing Systems.

2.06 Finishes

[Specifier Note: Amend Paragraph below to suit project requirements]

A. Standard Anodized Finish:

Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain a:

- 1. **CLEAR ANODIZED FINISH:** AA-M12C22A31, AAMA 611, Architectural Class II (0.4 mil thick clear anodic coating)
- 2. **DARK BRONZE COLOR ANODIZED FINISH:** AA-M12C22A44, AAMA 611, Architectural Class I (0.7 mil thick electrolytic deposited color anodic coating)
- 3. **BLACK COLOR ANODIZED FINISH:** AA-M12CSSA44, AAMA 611, Architectural Class I (0.7 mil thick electrolytic deposited color anodic coating)

B. Optional Anodized Finish: [Specify] _____

C. Factory Standard Powder Coat Paint Finish:

- 1. **ARCHKOTE 1000™ POWDER COAT PAINT FINISH:** AAMA 2603 Pigmented Organic Coatings (2.0 to 3.0 mils Film Thickness) One-Year Limited Warranty
- 2. **ARCHKOTE 6000™ POWDER COAT PAINT FINISH:** AAMA 2604 High Performance Organic Coatings (2.0 to 3.0 mils Film Thickness) Six-Year Limited Warranty

ARCHKOTE 1000™ & 6000™ Stock Color Options:

- | | |
|---------------------------|---------------------|
| ___ # 9021 White | ___ # 7001 Gray |
| ___ # 1042 Colonial White | ___ # 3003 Red |
| ___ # 1055 Sandstone | ___ # 3004 Burgundy |
| ___ # 5018 Aqua | ___ # 5003 Blue |
| ___ # 5030 Brazil Green | ___ # 9000 Black |
| ___ # 6028 Florida Green | ___ # 8033 Bronze |

Optional Color: [specify] _____

D. Factory Powder Coat Paint Finish:

- 1. **ARCHKOTE 10K™ POWDER COAT PAINT FINISH:** AAMA 2605 Superior Performing Organic Coatings (2.0 to 3.0 mils Film Thickness) Ten-Year Limited Warranty

Color shall be RAL# _____

[Specify color number from Arch Aluminum & Glass Co., Inc. color selection chart or specify color and name to be matched]

Color shall match: _____

E. Factory Fluoropolymer Coating Paint Finish:

- 1. **70% PVDF PAINT FINISH:** AAMA 2605 Superior Performing Organic Coatings
 Manufacturer: _____
 Color: _____
 Warranty: _____

F. Other:

AAMA: _____
 Manufacturer: _____
 Color: _____
 Warranty: _____

2.07 Quality Control

A. Single Source Quality: Aluminum Entrance Door System and Hurricane Resistant Glazing herein specified shall be provided from a single source.

B. Fabrication Quality: Aluminum Entrance Door System shall be fabricated according to manufacturer's specified tolerances.

PART 3 – EXECUTION

3.01 Examination

A. Verification of Site Conditions: Do not proceed with installation until site conditions, including substrate conditions which have been specified and installed under other "Sections", are acceptable for product installation according to Division 01 40 00 and manufacturer's instructions. Verify openings are correctly sized to receive Impact Door 3000 Entrance Door System and that sill conditions are level and sloped away from openings as specified.

- 1. Field Measurements: Prior to fabrication or installation preparation, verify actual openings with field measurements and record same on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

3.02 Installation

A. Approved Drawings: Resistor Impact Door 3000 Medium Stile Large Missile Entrances must be installed in strict compliance with the project specific drawings and as approved by the Miami-Dade County Product Control Division.

B. The installation of this approved product **does not** require a hurricane protection system (shutters) when installed in High-Velocity Hurricane Zones of the Florida Building Code.

C. Units shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of the canopy or overhang to the sill is less than forty-five (45) degrees, unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

D. Labeling: Each unit shall bear a permanent label with the manufacturers name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

E. General: Install Aluminum-Framed Storefront in accordance with Division 01 73 00, the AAMA Storefront and Entrance Guide Specifications Manual, and the manufacturer's installation instructions.

F. Related Products:

- 1. Sealants: Refer to Section 07 92 00 Joint Sealants (Perimeter Sealants)
- 2. Glass and Glazing: Refer to Division 08 88 00 Special Function Glazing, Section 08 88 19 Hurricane Resistant Glazing
 - a. Reference: ANSI Z97.1, CPSC 16 CFR 1201, and GANA Glazing Manual

3.03 Cleaning and Protection

A. Cleaning:

- 1. Refer to and comply with Section 01 74 00, Cleaning and Waste Management for:
 - a. Progress Cleaning
 - b. Site Maintenance
 - c. Construction Waste Management and Disposal
 - d. Final Cleaning

2. Clean installed Resistor Impact Door 3000 Medium Stile Large Missile Entrance Door System products according to the guidelines of AAMA Publications # 609 and # 610-2, "Cleaning and Maintenance Guide for Architecturally Finished Aluminum" (combined documents).

3. Repair or replace any damaged components.

B. Protection:

1. Refer to and comply with Section 01 76 00, Protecting Installed Construction.
2. All materials shall be protected against damage and from contact with water, mortar, plaster, paint, alkaline, and all contaminants.

***DISCLAIMER**

1. These "Guide Specifications" are provided solely as an aid in the preparation of specifications for the specific products herein described. While compiled in the style of a three part format, this information is not intended to be used as a literal project specification. Neither is it intended to be inclusive of any particular nor all aspects of a complete project or product specification regarding the products' performance or the itemized procedures required by a qualified construction Specifier. This information must be used in conjunction and coordination with the procedural requirements of a qualified Specifier and the exacting requirements of a specific construction project.
2. Changing technology within the architectural products industry demands that the company reserve the right to revise, discontinue, or change any product line or specification without prior written notice.

U. S. GREEN BUILDING COUNCIL



Arch Aluminum & Glass Co., Inc. is a member in good standing with the U.S. Green Building Council and active participant in the LEED™ Rating System.

Architectural Resources:

1. U. S. Green Building Council:
www.usgbc.org
2. Arch Aluminum & Glass Co., Inc., Green Compliance:
www.archgreen.com
3. Miami – Dade County Building Code Compliance Office:
www.miamidade.gov/buildingcode/
4. Arch Aluminum & Glass Co., Inc., Hurricane Code Info:
www.hurricanecodes.com
5. Arch Aluminum & Glass Co., Inc., General Website:
www.archaluminum.net