**SECTION 08 39 00 –PRESSURE RESISTANT DOORS**
**SECTION 08 42 13 13 – WIND AND IMPACT SECURITY DOOR ASSEMBLIES**

**PART 1 GENERAL**

1.1 SUMMARY

A. Section Includes: Impact, wind, and bullet-resistant door and frames assemblies.

B. Related Documents: Division 01 - General Requirements: Administrative, procedural, and temporary work requirements.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Conference:
1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.
2. Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

1.3 SUBMITTALS

A. Action Submittals:
1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
2. Product Data: Manufacturer's descriptive data and product attributes.
3. Samples: [Selection samples,] [Verification samples,] on aluminum extrusions.

B. Informational Submittals:
1. Certified test results indicating product compliance with ICC 500-23 and FEMA P-361-24.

C. Closeout Submittals:
1. Operation and Maintenance Data: Product data and related information required for Owner's maintenance and operation of products furnished.

1.4 QUALITY ASSURANCE

A. Door assembly attachment to building structure to be designed by registered professional engineer licensed in State in which Project is located.

B. Door Assembly: Door, frame, glazing and hardware factory assembled into single unit.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, and handle products in accordance with manufacturer's instructions.

1.6 PROJECT CONDITIONS

A. Do not install products when environmental conditions are outside of manufacturer's recommended limits.

**PART 2 PRODUCTS**

**Commented [Au1]:** United States Bullet Proofing has developed this guide specification to assist design professionals in preparing a project specification on USAD1000ICC single leaf outswing glazed doors for use in FEMA/ICC 500 storm shelters and similar applications.

The following should be noted in using this document:

Optional text requiring a selection by the user is enclosed within brackets and as red text, e.g.: "Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and as red text, e.g.: "Section [__ __ __ - _____]."

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

**** OR ****

For assistance on the use of the products in this section, contact United States Bullet Proofing by calling 800-363-8328 or visit their website at www.usbulletproofing.com.

**Commented [Au2]:** Retain for a pre-installation conference. Delete for smaller, less complex projects.

2.1 MANUFACTURERS

A. Product Basis: USAD1000ICC door and frame assembly by United States Bullet Proofing, www.usbulletproofing.com.

2.2 SYSTEMS

A. System Description:
   1. Single leaf, outswing, aluminum glazed door assembly.
   2. System performance requirements; tested and classified to ICC 500 and FEMA P-361:
      a. Design tornado pressure: Plus 248 MPH, minus 312 MPH.
      b. Design hurricane pressure: Plus 167 MPH, minus 263 MPH.
      c. Impact rating: 15 pounds at 100 MPH.
   3. Ballistics resistance: Tested to UL 752:
      a. 11th Edition: Level 5.
      b. 12th Edition: UL RF-B at ambient temperature.

2.3 MATERIALS

A. Aluminum Extrusions: ASTM B221, alloy and temper best suited to application.

B. Glazing: Multi-ply glass/polycarbonate composite, clear.

**Commented [Au3]:** This glass was used in the tested door assembly to achieve the specified results. Contact United States Bullet Proofing for other glass types.

2.4 ACCESSORIES

A. Door Hardware:
   1. One security contact.
   2. Two butt hinges.
   3. One closer with cushion stop arm.
   4. Perimeter weatherstripping.
   5. One threshold.

**Commented [BH4]:** A complete hardware set was used in a tested door assembly to achieve the specified results. Contact United States Bullet Proofing for hardware options.

2.5 FINISHES

A. Aluminum: AAMA 611, Architectural Class I anodized, [clear.] [dark bronze.]

**Commented [Au5]:** Anodized finishes are standard.

**** OR ****

B. Aluminum: AAMA 2605, fluoropolymer coating, minimum 70 percent PVDF resins, [____] [custom] color [to be selected].

**Commented [Au6]:** Custom color fluoropolymer coatings are optional. Contact United States Bullet Proofing for availability.

**PART 3 EXECUTION**

3.1 INSTALLATION

A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

END OF SECTION