



SECTION 13070

BULLET-RESISTANT ALUMINUM SLIDING TRANSACTION WINDOW

PART 1 - GENERAL

1.01 DESCRIPTION

A. WORK INCLUDED:

1. All labor, material, equipment, and services necessary to furnish and install bullet-resistant aluminum sliding transaction windows to be located as shown on the construction drawings or as noted in the window schedule.
2. Related sections:
 - a.

B. RELATED DOCUMENTS:

1. Underwriters Laboratory, UL 752, Current Edition, Standard for Bullet-Resisting Equipment

1.02 QUALITY ASSURANCE

- A. Ballistic Performance: Certification shall be furnished indicating that all materials have been tested in accordance with the appropriate test procedures.
- B. Obtain bullet-resistant components through one source from a single manufacturer.

1.03 SUBMITTALS

- A. Shop Drawings shall be submitted for approval prior to the fabrication of materials. The drawings shall include plan views, elevations, sections, and details of the proposed installation including attachment methods.
- B. Drawings shall indicate dimensions, component profiles, and material finishes.
- C. Manufacturer's warranty and product data, glazing product information, and installation instructions shall be included with the submittal package.

1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Pack bullet-resistant glazing frames in wood crates for shipment. Glazing should be crated separately, unless frames are factory glazed.
- B. All items shall be delivered, stored, and handled in a manner that will not damage or deform.
- C. Abraded or scarred areas shall be cleaned, repaired, or replaced immediately upon detection. Damaged items that cannot be restored to like-new condition shall be replaced.
- D. Store crated glazing frames in a dry location on platforms or pallets that are adequately ventilated, free of dust, water, and other contaminants, and stored in a manner that permits easy access for inspection and handling.

1.05 JOB CONDITIONS

- A. Field Measurements: Contractor shall verify finished openings by field measurement prior to fabrication and indicate measurements on Shop Drawings.
 - 1. Established Dimensions: If field measurements cannot be made without causing a delay, establish opening dimensions and proceed with fabrication of bullet-resistant frames without field measurements. Coordinate construction to insure that the actual finished-opening dimensions correspond to the established dimensions.

1.06 WARRANTY

- A. Warranty Period: Glazing frames shall be warranted for a period of 12 months from the date of substantial completion.
- B. Warranty is limited to material defects or workmanship and offered to North American Bullet Proof direct customers. Warranty is limited to replacement of product or refund of invoice price at North American Bullet Proof's discretion. Installation, shipping or other cost is not included in this warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. North American Bullet Proof, 106 Guadalupe Drive, P.O. Box 628, Cibolo, TX 78108. Phone 888.746.8427, Fax 210.225.0984

2.02 MATERIALS

- A. Bullet-Resistant Aluminum Glazing Frames:
 - 1. Model - Shotgard® Series Bullet-Resistant SLTW Aluminum Sliding Transaction Window
 - 2. Frames and glazing shall be supplied to provide a complete assembly.
 - 3. Ballistic Resistance Performance Level: U.L. 752 Level [1-3/6]
 - 4. SLTW Aluminum Transaction Window to be constructed of anodized aluminum frame, aluminum channels, and aluminum track and trolley
 - 5. Frame Profile: 1 $\frac{3}{4}$ " x 4 $\frac{1}{2}$ " aluminum tube, lined with steel as required for ballistic protection level, with removable stop.
 - 6. Testing: Independently tested to U.L. 752 to level specified.

2.03 COMPONENTS

- A. Glazing: Glazing material shall be factory-fabricated units designed to be bullet-resistant to the specified test standard. Glazing material shall be a no spall, cell-cast acrylic. No-spall product shall meet or exceed requirements for spall resistance defined in U.L. 752
- B. Glazing Cap: Provide a 1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " aluminum channel to frame the fixed panel on three sides.
- C. Stops: Provide $\frac{3}{4}$ " x $\frac{3}{4}$ " aluminum channel as stop for operable panel.
- D. Guide Strips: Provide $\frac{1}{2}$ " x $\frac{1}{4}$ " polypropylene strips along sliding track to allow for smooth operation.
- E. Track and Trolley: Provide aluminum track with nylon bodied, acetal wheel hangers rated to 200 lbs.
- F. Handle: Provide handle for operable panel with lock to engage stop in closed position.
- G. Anchor-hole Plugs: Provide decorative plugs to cover anchor-access holes at strike side of frame.
- H. Rubber Stops: Provide rubber stops to cover anchor-access holes at opposite side of frame.
- I. Anchors and Sealants to be provided by installer.

2.04 [ACCESSORIES]

- A. [Counter: Provide [plastic laminate] [Corian®] [stainless steel] counter.
1. Dimensions: (frame width) x 12" deep x [2" high] [2½" high] [2" high].
 2. Counter to have [cutout for recessed deal tray installation] [integral 12" x 8" deal tray] [cutout for deal tray installation].
 3. [All exposed surfaces to be laminated] [Provide matte finish] [Finish to No. 3 brushed finish].
 4. [Color selection:]
 5. [Bolt the glazing frame to the counter using a stainless steel base plate.]]
- B. [Deal Tray: MDT-812 Series Stainless Steel Deal Tray
1. Formed from 16-gauge stainless steel with a curved shape and exposed flanges for [recessed] [surface-mount] installation [into] [onto] a horizontal surface.
 2. Nominal size: 12" wide by 8" deep by 1¾" high
 3. [Provide liner for Level 3 ballistic resistance.]]
- C. [Speaker: NASD-6 Series Stainless Steel Speak-Thru Device
1. Locate on operable panel.
 2. Made from cast and polished stainless steel.
 3. Provide Mylar® draft shield for exterior applications.
 4. Speaker to provide U.L. 752 Level [1-4/6] protection.
 5. Provide [stainless steel] [powder coated steel] backing plate with spacers for Level [1-3/6] [4] protection.]

2.05 FABRICATION

- A. General: Fabricate bullet-resistant glazing frames to comply with indicated standards. Include a complete system for assembly and installation of bullet-resistant glazing frames.
1. Aluminum shall be free of scratches....., and finish work shall be neat and free of defects.
- B. Framing: Straight-cut aluminum extrusions, fastened with no. 14 stainless steel screws and steel tube anchors.
1. Install armor inside the frame in the thickness necessary for the ballistic resistance level indicated.
 2. Attach aluminum channel to frame with countersunk screws.
 3. Secure fixed panel with pan head screws; cover all exposed screws with 2-piece cap to match frame.
- C. Metal Protection: Separate dissimilar metals to protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
- D. Any openings in glazing for speak-thru devices are to be factory-cut.
- E. No field alterations to the construction of the units fabricated under the specified standards shall be allowed unless approved by the manufacturer.

2.06 FINISHES

1. [Provide aluminum components with a [clear] [dark bronze] anodized finish]
or
[Provide aluminum components with a fluoropolymer finish.
 - a. Color selection:]

2.07 LABELING

- A. Bullet-resistant glazing frames shall be plainly and permanently labeled. The label shall be compatible with finishes. The label shall be visible only on the secure side, after installation, and shall include:
1. Manufacturer's name or identifying symbol

2. Model Number
3. Date of manufacture by month and year. This may be done through use of lot number or other traceable code.
4. Correct mounting position including threat side and secure side (by removable label on glazing material).
5. Code indicating bullet-resistant rating and test standard used (by removable label on glazing material).

PART 3 - EXECUTION

3.01 INSPECTION

- A. Upon delivery, the contractor shall open the crate and inspect the contents for freight damage. If damaged, notify the freight company of the claim. Check the packing list to make sure all items are present. If any items are missing, notify North American Bullet Proof.
- B. Prior to commencing installation, the contractor shall examine all areas to receive the bullet-resistant glazing frames to ensure that they are ready for installation. Components shall be checked and corrected for racking, twisting, and other malformation prior to installation. All surfaces and connections shall be examined for damage prior to installation.
- C. The contractor shall verify that the glazing frames comply with indicated requirements for type, size, and location.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. The Contractor shall field verify dimensions of the finished openings. SLTW aluminum sliding transaction windows must be installed in a plumb, level, and square finished opening. The finished opening must be ¼" larger in width and height than the window frame.

3.03 INSTALLATION

- A. Install: Place the glazing frame unit in the opening, centered on wall. Mark the anchor holes. Remove the frame and drill the anchor holes. Install the frame and shim for plumb/level. Secure with anchors. Install the anchor-hole plugs and rubber stops. Note: all anchors provided by installer.
- B. Finish: Seal all joints around the frame (sealant by installer). Wait until all sealants are cured before the next operating.

3.04 CLEAN

- A. Provide glass cleaning kit and instructions.
- B. Use care and strictly follow instructions included with shipment for cleaning the glazing.

END OF SECTION