SECTION 08 5653

BULLET-RESISTANT STAINLESS STEEL TRANSACTION WINDOWS

PART 1GENERAL

1.1 SUMMARY

A. Section Includes:
1. Bullet-resistant stainless steel transaction window assemblies.

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

A. American Welding Society (AWS) D1.6/D1.6M - Structural Welding Code - Stainless Steel.

B. ASTM International (ASTM) A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

C. Underwriters Laboratories (UL) 752 - Bullet Resisting Equipment.

1.3 SYSTEM DESCRIPTION

A. Design Requirements:
1. Provide window frames of “non-ricochet type" intended to permit capture and retention of attacking projectile, lessening potential of random injury or lateral penetration.
2. Two way "natural voice" communication permitted by design of vertical side frames and glazing technique.

1.4 SUBMITTALS

A. Submittals for Review:
1. Shop Drawings: Include window profiles and sizes, type and spacing of frame anchors, reinforcement size and locations, details of joints and connections, and welding details.
2. Product Data: Include product description for window assemblies including bullet-resistant ratings.

B. Closeout Submittals:
1. Maintenance Data: Include instructions for cleaning of glazed panels.

1.5 QUALITY ASSURANCE

A. Transaction Window Assemblies: Ballistic Level [1,] [2,] [3,] tested to UL 752.

1.6 DELIVERY, STORAGE AND HANDLING

A. Store window assemblies upright in protected, dry area, off ground or floor, with at least 1/4 inch space between individual units.

B. Do not cover with non-vented coverings that create excessive humidity.

C. Remove wet coverings immediately.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on products by ARMORTEX, 5926 Corridor Parkway, Schertz, Texas, 800-880-8306, www.armortex.com.

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

A. Stainless Steel Sheet:
   1. ASTM A666, cold rolled, free from scale, pitting, coil breaks, and other surface defects.

B. Glazing:
   1. UL Listed [laminated glass.] [glass/polycarbonate composite.] [Glass-clad polycarbonate.] [Multi-ply polycarbonate.] [Acrylic polycarbonate composite.] [_____.]
   2. Bottom edge of glazing panel provided with 18 gage stainless steel cap.

2.3 FABRICATION

A. Frames:
   1. Fabricate from 12 gage stainless steel [lined with ballistic steel.]
   2. Weld frame corners; knock-down and mechanical joints not acceptable.
   3. Frame modules capable of being joined with other frame modules to form continuous line.
   4. Install glass in frames at factory.

B. Shelf: Minimum 2 inches thick with recessed dip tray, full width of window x minimum 12 inches deep, centered under glazing, covered with [[black] [____] high pressure laminate.] [18 gage stainless steel.]

C. Dip Tray: Model RMDT1016, 16 gage stainless steel, 10 x 16 inches to outside edge of flanges, clear 1-5/8 inch open depth under glazing.

D. Welding: In accordance with AWS D1.6/D1.6M. Grind exposed welds flush and smooth.

E. Finish work neat and free from defects.

F. Allowable Tolerances: Plus or minus 1/16 inch for frame opening width, height, diagonal dimensions, and overall width and height (outside to outside).

2.4 FINISHES

A. Stainless Steel: No. 3 brushed finish.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install window assemblies in accordance with manufacturer’s instructions and approved Shop Drawings.

B. Set plumb, square, and level.

C. Secure to adjacent construction using fastener type best suited to application.

D. Field alterations to window assemblies not permitted unless approved in advance by manufacturer and Architect.

END OF SECTION