

SECTION 08400
SPECIAL FUNCTION OPENINGS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes bullet resistant fixed windows and doors located in the exterior walls of the guard building.
- B. Related Sections:
1. Section 01300 Submittals
 2. Section 01400 Quality Control Requirements
 4. Section 01700 Project Record Documents
 5. Section 05400 Cold Formed Metal Framing
 6. Section 06100 Rough Carpentry
 7. Section 08700 Hardware

1.2 REFERENCES

- A. Underwriters laboratory UL 752 9th Edition dated Jan. 27 1995
Standards for Bullet Resisting Equipment.
- B. American Welding Society.
- C.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300
- B. Shop Drawings prior to fabrication: Submit for the Architect's approval drawings fully detailing all work of this section. Indicating dimensions, description of material, frame profiles, sizes, type and spacing of frame anchors, reinforcement size and locations, details of joints, and connections, welding details, flashing details and printed data in sufficient detail to indicate compliance with the construction documents.

1.4 QUALITY ASSURANCE

- A. Frames shall be of the "non ricochet type". The product is to permit the encapture and retention of an attacking projectile lessening the potential of a random injury or lateral penetration. The encapturing barrier shall be Armortex UL Listed bullet resistant fiberglass manufactured by Safeguard security Services Ltd, protection level shall be UL level 8. Frames shall be of a protection level equal to or greater than that of the glazing. No field alterations to the construction of the units fabricated under the acceptable standards shall be allowed. All welds shall be in accordance with the requirements and standard practices of the American Welding Society. All exposed welds shall be ground flush and finished smooth. Standard manufacturing tolerances shall be +/- 1/16 " for frame opening, diagonal dimensions of frame, overall frame width, height, depth, etc. Aluminum or aluminum clad units are not acceptable.

1.6 DELIVERY STORAGE AND HANDLING

Deliver the material to the project with the manufacturer's UL Labels in tact and legible. Handle the material with care to prevent damage. Store the materials inside under cover; stack flat and off the floor.

1.7 WARRANTY

All material and workmanship shall be warranted against defects for a period of one (1) years from Final Completion date of the project.

PART 2 PRODUCTS

2.1 FRAMES

Bullet Resistant Frames and glazing assemblies shall be manufactured by:

- A. Armotex – OF 800-Manufactured by Safeguard Security Services, Ltd., San Antonio, TX Phone 210.661.8306
- B. Action Security Door and Window Systems- 263 Union Blvd', West Islip, NY 11795, Phone 800962.8088
- C. Gaffco, 800 6th Avenue, Box 50, New York, NY 10001, Phone 212.967.8839

Window frames shall be a protection level equal to or greater that the glazing. Frame modules shall be of a "non ricochet type" design, constructed of brake formed commercial cold rolled 16 gauge steel lined with UL Listed bullet resistant Armortex fiberglass. Steel shall be free of scale, pitting, coil breaks and finish work shall be neat and free of defects. Corners shall be continuously welded and full length of the intersection. Knocked down and mechanical joints are unacceptable. Frame modules shall be capable of being joined with other frame modules to form a continuous hardline. Replacement of glazing shall be from the secure side of the window unit and will not require the removal of the frame from the opening.

Doors shall be of the same "non ricochet type" as shown in the construction drawings and schedules complete with 16 gauge face plates, foam in place rigid urethane foam and armortex fiberglass core. The 16 gauge rails and stiles are to be welded to face plates and provide a flush surface on all edges. Door unit shall be supplied prehung with a continuous gear hinge in a steel frame. Door and frame shall be mortised and reinforced at the factory for template hardware in accordance with the hardware schedule. Templates are to be provided to the door manufacturer by the hardware contractor. Drilling and taping for surface mounted hardware shall be performed at the jobsite by the installing contractor. Bullet resistant transparent armor is required for the door vision panel, the vision panel shall be furnished by the door manufacturer and be UL Listed material of the same ballistic level as the door fiberglass core door and frame. Assembly unit shall be manufactured by Safeguard Security Services , Ltd.

GCP 800 Glazing-

Glazing Type: Laminated Glass Clad Poly

Thickness: 2 1/8"

Composition: 1 LT. 1/8 inch heat strengthened glass
 2LT. 1/4 inch annealed glass
 2LT. 3/8 inch annealed glass
 1LT. 1/8 inch polycarbonate
 1LT. 1/8 inch poly. w/ mar guard
 6 PC. PVB interlayer
 Final mirror coating

Wgt. per sq. ft. 23.3#

Certification : UL 752 level 8

NIJ Level III
ASTM C1036, ANSI Z97.1, ASTM C1172, CPSC 16CFR1201 Category I & II

2.2 SECURITY LEVEL

The bullet Resistant window must be UL listed rated for LEVEL 8. The glazing must be UL Listed Level 8

2.3 FINISH

Cold rolled steel is to be factory prime painted gray. Field paint and finish both door and frame in accordance with 09900 Paints and Coatings.

SW 7523 Burnished Brandy

The Contracting Officer reserves the right to change the color during the submittal process.

2.4 SUBSTITUTIONS

- A. Unlisted bullet resistant window/door products will not be considered acceptable or equal.

PART 3 EXECUTION

3.1 INSTALLATION

Set in accordance with manufacturer's instructions.

3.2 PROTECTION

It shall be the responsibility of the general contractor to see that any scratches or disfigurement caused by shipping and handling of the product are touched up. Properly store all frames, glazing material etc in a dry location and covered to protect them from damage before and after installation.

3.3 APPLICATION

Armor shall be installed in accordance with the manufacturer's printed recommendations. Armor panels shall be adhered using screws or bolts. Method of application shall maintain the bullet resistive rating at junctures with the concrete floor slab, the bullet resistive door frames, the bullet resistive windows frames, and all required penetrations.

3.4 CLEANING

Upon completion, clean exposed surfaces of door assembly units thoroughly. Remove all smears and other unsightly marks.

END OF SECTION