Section 13070

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Provide bullet resistant assemblies, complete including glazing, and bullet resistant armor panels for walls if applicable.

B. Related Work:
   1. 08800 - Glazing
   2. 08100 - Door and Frame Schedule
   3. 08700 - Door Hardware
   4. 09900 - Painting

1.02 QUALITY ASSURANCE

A. Manufacture: Products and bullet resistant assemblies of Chicago Bullet Proof Systems are specified to establish intended type and quality of the bullet resistant assemblies required for the work.

B. UL Labels: Each assembly shall bear a UL label evidencing the ballistic rating of the assembly. Suppliers that "comply with" or "manufacture to meet the requirements of UL" are not acceptable. Fully Assembled product must bear the UL label. Each label shall provide the following information:
   1. The Underwriters Laboratories, Inc. registered trademark "UL" with the word "listed."
   2. Description of Assembly
   3. Model Number
   4. Ballistic Rating
   5. Date of Manufacture
   6. Manufacturer's UL Control Number

C. Quality Standards: Work of this section shall conform to UL 752 Standard for Safety, Bullet Resisting Equipment as per the most recent revision.

1.03 REFERENCES

A. Underwriters' Laboratories, Inc. - UL 752, Bullet-Resisting Equipment, 333 Pfingsten Rd., Northbrook, IL 60062-20906. Tel : 847.272.8800.

1.04 SUBMITTALS

A. Product Data: Submit bullet resistant assembly manufacturer's detailed specifications and installation instructions.

B. Shop Drawings: Submit for architect's approval drawings fully detailing all work of this section. Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, and anchorage methods. Also, indicate UL labeling and required level of ballistic protection.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING:

A. Deliver all products under this section in manufacturer's standard factory packaging. Inspect promptly and store products within the building in a dry location. Use care in unpacking, assembly, and handling to prevent damage or defacement.

1.06 WARRANTY

A. Product shall be warranted from defects in workmanship and materials for use under normal and proper usage for a period of one year from date of shipment.

PART 3 -EXECUTION

3.01 INSPECTION:

A. Opening Size: Verify opeing size to be equal to that recommended for product by Chicago Bullet Proof Systems.

B. Fit: Verify flatness/plumb and levelness of surfaces.

3.02 STORAGE:

A. It shall be the responsibility of the general contractor to see that any scratches or disfigurement caused in shipping or handling are promptly cleaned and touched up with a rust-inhibitive primer (for painted surfaces), and that materials are properly stored on planks or dunnage, in a dry location, and covered to protect them from damage. Nothing shall be stored on top of any bullet resistant equipment.

B. Windows and transparent armor shall be stored in an upright position.

3.03 INSTALLATION: Install work of this section according to manufacturer's recommendations, installation instructions and approved submittals. Install frames plumb, rigid and in true alighnment. Utilize temporary supports for frames installed prior to wall erection. Install glass armor with the specified rubber spacers only for seating and securing glass in the frames. Calk frames where necessary (vision windows only). Glazing shall occur after all masonry, ceiling, electrical, plumbing and/or finish painting have been accomplished in order not to damage the bullet resistant transparent armor.

3.03 ADJUSTING and CLEANING: Leave glass clean according to manufacturer's recommendations and free of lables. Leave shop primed surfaces clean and ready for finish paint.

MODEL SVL

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) **BULLET RESISTANT VISION WINDOW:** Standard SVL vision window with UL label by Chicago Bullet Proof Systems, 12 E. Old Mill Lane, Burr Ridge, IL 60527, tel: 800.690.9160. *Non-UL labeled assemblies are not acceptable.*

A. Chicago Bullet Proof Systems Standard SVL Standard Vision Window with UL label for assembly. Vision window shall be constructed from Chicago Bullet Proof's certified Shot-Tex bullet-resistant steel and shall bear a UL label. Vision window shall be complete with single rabbeted frame formed to a profile of 2 inches by 5-1/2 inches with applied glazing stop on protected side. Frame shall be four-sided with mitered and fully welded corners. Exposed welds shall be ground smooth and finished flush with adjoining surfaces, free of holes or defects.

B. Vision window shall be Model SVL with overall size of _____ inches wide by _____ inches high.

C. Frame Finish: Finish for vision window frame shall be _____. (prime painted or stainless steel with brushed finish).

D. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass of _____(see below) thickness and UL listed level _____(see below).

Glass Thickness	Glass Clad Polycarbonate	UL level*
1-3/16"	3/4"	level 1
1-1/2"	1"	level 2
1-3/4"	1-3/16"	level 3
1-3/4"	1-1/4"	level 4
2"	2-3/8"	level 5
	1-1/4"	level 6
	2-3/8"	level 8

E. Vision window assembly shall be UL listed and labeled to ballistic levels defined in the Standard for Safety UL 752 for level* _____. (select one: level 1, level 2, level 3, level 4, level 5, level 6, or level 8)

**** Consult CBP's list of UL label definitions to select the best level for your application.***

Notes:

1. Modifications can be done to units for exterior installations, contact manufacturer.

2. A 96 inches wide unit has one 2 inch wide vertical division mullion dividing frame into two equal transparent panels.

3. Special frame, glass, and size conditions are available, contact manufacturer.

PART 3 - EXECUTION

MODEL NVL

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) **BULLET RESISTANT VISION WINDOW:** Standard NVL narrow profile vision window with UL label by Chicago Bullet Proof Systems, 12 E. Old Mill Lane, Burr Ridge, IL 60527, tel: 800.690.9160. *Non-UL labeled assemblies are not acceptable.*

A. Chicago Bullet Proof Systems NVL Narrow Profile Vision Window with UL label for assembly. Vision window shall be constructed from Chicago Bullet Proof's certified Shot-Tex bullet-resistant steel and shall bear a UL label. Narrow profile service window shall be complete with frame formed to a profile of 1-1/4 inches by 3-1/4 inches (for Level 1 & 2) or 1-1/4 inches by 3-3/4 inches (for Level 3, 4, 6). An applied glazing stop shall be on the protected side. Frame shall be four-sided with mitered and fully welded corners. Exposed welds shall be ground smooth and finished flush with adjoining surfaces, free of holes or defects.

B. Vision window shall be Model NVL with overall size of _____ inches wide by _____ inches high.

C. Frame Finish: Finish for vision window frame shall be _____. (prime painted or stainless steel with brushed finish).

D. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass of _____(see below) thickness and UL listed level _____(see below).

Glass Thickness	UL level *
1-3/16"	level 1
1-1/2"	level 2
1-3/4"	level 3
2"	level 4
1-3/4"	level 5

E. Vision window assembly shall be UL listed and labeled to ballistic levels defined in the Standard for Safety UL 752 for level* _____. (select one: level 1, level 2, level 3, level 4, level 5)

**** Consult CBP's list of UL label definitions to select the best level for your application.***

Notes:

1. Modifications can be done to units for exterior installations, contact manufacturer.

2. A 96 inches wide unit has one 2 inch wide vertical division mullion dividing frame into two equal transparent panels.

3. Special frame, glass, and size conditions are available, contact manufacturer.

PART 3 - EXECUTION

MODEL CVL

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) **BULLET RESISTANT CLAMP-ON VISION WINDOW:** Standard CVL clamp-on vision window with UL label by Chicago Bullet Proof Systems, 12 E. Old Mill Lane, Burr Ridge, IL 60527, tel: 800.690.9160. *Non-UL labeled assemblies are not acceptable.*

A. Chicago Bullet Proof Systems Standard CVL Clamp-on Vision Window with UL label for assembly. Clamp-on vision window shall be constructed from Chicago Bullet Proof's certified Shot-Tex bullet-resistant steel and shall bear a UL label. Clamp-on vision window shall be complete with adjustable frame for wall thickness from 4-1/2 inches to 8-1/2 inches; with applied glazing stop on the protected side. Frame shall be four-sided with mitered and fully welded corners. Exposed welds shall be ground smooth and finished flush with adjoining surfaces, free of holes or defects.

B. Clamp-on vision window shall be Model CVL with overall size of _____ inches wide by _____ inches high.

C. Frame Finish: Finish for clamp-on vision window frame shall be _____. (prime painted or stainless steel with brushed finish).

D. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass of _____(see below) thickness and UL listed level _____(see below).

Glass Thickness	UL level*
1-3/16"	level 1
1-1/2"	level 2
1-3/4"	level 3
2"	level 4

E. Clamp-on vision window assembly shall be UL listed and labeled to ballistic levels defined in the Standard for Safety UL 752 for level* _____. (select one: level 1, level 2, level 3, or level 4, level 6)

**** Consult CBP's list of UL label definitions to select the best level for your application.***

Notes:

1. Modifications can be done to units for exterior installations, contact manufacturer.

2. A 96 inches wide unit has one 2 inch wide vertical division mullion dividing frame into two equal transparent panels.

3. Special frame, glass, and size conditions are available, contact manufacturer.

PART 3 - EXECUTION

MODEL CV

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) **BULLET RESISTANT CLAMP-ON DRIVE-UP VISION WINDOWS:** Standard CV clamp-on drive-up vision window with UL label by Chicago Bullet Proof Systems, 12 E. Old Mill Lane, Burr Ridge, IL 60527, tel: 800.690.9160. *Non-UL labeled assemblies are not acceptable.*

A. Chicago Bullet Proof Systems Standard CV Clamp-on Drive-up Vision Window with UL labeled for assembly. Clamp-on vision window shall be constructed from Chicago Bullet Proof's certified Shot-Tex bullet-resistant steel and shall bear a UL label. Clamp-on vision window shall be complete with adjustable frame for wall thickness from 8 inches to 11 inches, with applied glazing stop on the protected side. Transparent armor shall be retained within a subframe which is inclined five degrees to vertical, slanted away from the protected side of the window. Frame shall be four-sided with mitered and fully welded corners. Exposed welds shall be ground smooth and finished flush with adjoining surfaces, free of holes or defects.

B. Clamp-on service windows shall be Model CV with overall size of _____ inches wide by _____ inches high.

C. Finish: Finish for clamp-on vision window frame shall be a prime painted interior frame and stainless steel with brushed finish exterior frame.

D. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass of _____(see below) thickness and rated level _____(see below).

Glass Thickness	UL level*
1-3/16"	level 1
1-1/2"	level 2
1-3/4"	level 3
2"	level 4
1-3/4"	level 6

E. Clamp-on vision windows shall be UL listed and labeled to ballistic levels defined in the Standard for Safety UL 752 for the following ballistic level* _____. (select one: level 1, level 2, level 3, level 4, level 6).

**** Consult CBP's list of UL label definitions to select the best level for your application.***

Notes: *1. The CV120 and CV180 have one vertical division mulion dividing the frames into two equal panels.*

2. Special frame, glass, and size conditions are available, contact manufacturer.

PART 3 - EXECUTION