

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 opening 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 alignment. 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 DR-Pair Door/Frame

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) DOOR/FRAME ASSEMBLIES: Standard DR Pair Door/Frame assembly 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 DR Door/Frame Assembly with UL label for assembly. Door/Frame shall be constructed from UL listed Shot-Tex bullet-resistant steel and shall bear a UL label.
- B. Finish: Prior to pre-hanging door in frame, all exposed welds shall be ground smooth and assembly shall be given a spray coat of rust-inhibiting primer at the factory.
- C. Frame: Jamb opening shall be _____ inches wide by _____ inches high. Frame profile shall be double rabbeted and have a 2 inch face dimension by 5-1/2 inch depth. Corners shall be mitered, welded and ground smooth. Knock down frames are unacceptable. Door frames shall have 6 T-strap anchors for installation into new coursed masonry walls (or shall be prepped for existing masonry opening, or shall be prepped for built in stud wall installation).
- D. Doors: Doors shall be of all welded construction. Doors are 1-3/4 inches thick with 1/8 inches thick internal reinforcing channels. A continuous astregal running the entire height of the door shall be welded to both the active and inactive panels.
- E. Preparation: Door/Frame assembly shall be mortised, reinforced, drilled and tapped at the factory in preparation for mortise lockset.
- F. Hardware and Accessories: Provide the assembly manufacturer's standard door package hardware and accessories, including:
 - 1. Sargent 8204 mortise lockset with LNJ lever trim or equal.
 - 2. A Yale 4400 heavy duty closer.
 - 3. Continuous CBP #12252 stainless steel bullet-resisting hinge shall be drilled and tapped at the factory.
 - 4. Other hardware shall include 3 Glynn-Johnson #64 silencers and 6 adjustable strap anchors for masonry walls.
 - 5. Two flush bolts in inactive door
 - 6. Other options: **Electric Strike w/ required conduit**, Folger Adam 310-2-3/4, 24VAC. x LCBMA x (satin chromium) finish. (Note: Access control and transformer for electric strike are supplied by installer) **Insulation** is batt type fiberglass. **Threshold** of extruded aluminum with mill finish. **Weather-stripping** at head and jambs with self-adhesive silicone seal. **EMA prep:** manufacturer provides bolt and screw anchor preparation and proper frame reinforcement. (Note: Bolt or screw anchors are provided by installer)
- G. Vision panel(s): Vision panel(s) shall be _____ inches wide by _____ inches high with flush appearance on threat side and applied glazing stops on the protected side. Stops shall have mitered corners and the same finish as the door.

- H. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass (or type glass clad polycarbonate) of _____(see below) thickness and UL listed level_____(see below). Manufacturer shall furnish acoustic rubber spacers. All other glazing materials shall be provided by glazier.

<u>Glass Thickness</u>	<u>Glass Clad Polycarbonate</u>	<u>UL level*</u>
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

- I. DR Door/Frame 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.*

PART 3 - EXECUTION

MODEL DR

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) DOOR/FRAME ASSEMBLIES: Standard DR Door/Frame assembly 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 DR Door/Frame Assembly with UL label for assembly. Door/Frame shall be constructed from UL listed Shot-Tex bullet-resistant steel and shall bear a UL label.
- B. Finish: Prior to pre-hanging door in frame, all exposed welds shall be ground smooth and assembly shall be given a spray coat of rust-inhibiting primer at the factory.
- C. Frame: Jamb opening shall be _____ inches wide by _____ inches high. Frame profile shall be double rabbeted and have a 2 inch face dimension by 5-1/2 inch depth. Corners shall be mitered, welded and ground smooth. Knock down frames are unacceptable. Door frames shall have 6 T-strap anchors for installation into new coursed masonry walls (or shall be prepped for existing masonry opening, or shall be prepped for built in stud wall installation).
- D. Doors: Doors shall be of all welded construction. Doors are 1-3/4 inches thick with 1/8 inches thick internal reinforcing channels.
- E. Preparation: Door/Frame assembly shall be mortised, reinforced, drilled and tapped at the factory in preparation for mortise lockset.
- F. Hardware and Accessories: Provide the assembly manufacturer's standard door package hardware and accessories, including:
 - 1. Sargent 8204 mortise lockset with LNJ lever trim or equal.
 - 2. A Yale 4400 heavy duty closer.
 - 3. Continuous CBP #12252 stainless steel bullet-resisting hinge shall be drilled and tapped at the factory.
 - 4. Other hardware shall include 3 Glynn-Johnson #64 silencers and 6 adjustable strap anchors for masonry walls.
 - 5. Other options: **Electric Strike**, Folger Adam 310-2-3/4, 24VAC. x LCBMA x (satin chromium)finish. (Note: Access control and transformer for electric strike are supplied by installer) **Insulation** is batt type fiberglass. **Threshold** of extruded aluminum with mill finish. **Weather-stripping** at head and jambs with self-adhesive silicone seal. **EMA prep:** manufacturer provides bolt and screw anchor preparation and proper frame reinforcement. (Note: Bolt or screw anchors are provided by installer)
- G. Vision panel: Vision panel shall be _____ inches wide by _____ inches high with flush appearance on threat side and applied glazing stops on the protected side. Stops shall have mitered corners and the same finish as the door.

- H. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass (or type glass clad polycarbonate) of _____ (see below) thickness and UL listed level _____ (see below). Manufacturer shall furnish acoustic rubber spacers. All other glazing materials shall be provided by glazier.

<u>Glass Thickness</u>	<u>Glass Clad Polycarbonate</u>	<u>UL level*</u>
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

- I. DR Door/Frame 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.*

PART 3 - EXECUTION

MODEL WH

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) WOOD DOOR/FRAME ASSEMBLIES: Standard WH Wood Door/Frame assembly 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 WH Wood Door/Frame Assembly with UL label for assembly. Door/Frame shall be constructed from UL listed Shot-Tex bullet-resistant steel and shall bear a UL label.
- B. Finish: Prior to pre-hanging the door in the frame, all exposed welds shall be ground smooth and assembly shall be given a spray coat of rust-inhibiting primer at the factory.
- C. Frame: Jamb opening shall be _____ inches wide by _____ inches high. Frame profile shall be double rabbeted and have a 2 inch face dimension by a 5-1/2 inch depth. Corners shall be mitered, welded and ground smooth. Knock down frames are unacceptable. Door frames shall have 6 T-strap anchors for installation into new coursed masonry walls (or shall be prepped for built in stud wall installation, or shall be prepped for existing masonry openings).
- D. Doors: Doors shall be of all welded construction. Doors are 1-7/8" thick with 1/8" thick internal reinforcing channels. 1/4" thick unfinished red oak veneer shall be bonded to door interior side, exterior side and latch edge with Type 1 waterproof adhesive. Doors shall be sanded clean.
- E. Preparation: Door/Frame assembly shall be mortised, reinforced, drilled and tapped at the factory in preparation for mortise lockset.
- F. Hardware and Accessories: Provide the assembly manufacturer's standard door package hardware and accessories, including:
 - 1. Sargent 8204 mortise lockset with LNJ lever trim or equal x US26D.
 - 2. A Yale 4400 heavy duty closer.
 - 3. Continuous roton #780-112 hinge with clear anodized finish shall be drilled and tapped at the factory.
 - 4. Other hardware shall include 3 Glynn-Johnson #64 silencers and 6 adjustable strap anchors for masonry walls.
 - 5. Other options: **Electric Strike**, Folger Adam 310-2-3/4, 24VAC. x LCBMA x (satin chromium)finish. (Note: Access control and transformer for electric strike are supplied by installer) **Insulation** is batt type fiberglass. **Threshold** of extruded aluminum with mill finish. **Weather-stripping** at head and jams with self-adhesive silicone seal. **EMA prep:** manufacturer provides bolt and screw anchor preparation and proper frame reinforcement. (Note: Bolt or screw anchors are provided by installer)
- G. Vision panel: Vision panel shall be _____ inches wide by _____ inches high with flush appearance on threat side and applied glazing stops on the protected side. Stops shall have mitered corners and the same finish as the door.

- H. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass of _____(see below) thickness and UL listed level _____(see below). Manufacturer shall furnish acoustic rubber spacers. All other glazing materials shall be provided by the glazier.

Glass Thickness

1-3/16"

1-1/2"

1-3/4"

UL level*

level 1

level 2

level 3

- I. Wood Door/Frame 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, or level 3)

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

PART 3 - EXECUTION

MODEL CDR

PART 1 - GENERAL

PART 2 - PRODUCTS

(2.01) DOOR/FRAME ASSEMBLIES: Standard CDR Commercial Door/Frame assembly 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 CDR Commercial Door/Frame Assembly with UL label for assembly. Door/Frame shall be constructed from UL listed Shot-Tex bullet-resistant steel and shall bear a UL label.
- B. Finish: Prior to pre-hanging door in frame, all exposed welds shall be ground smooth and assembly shall be given a spray coat of rust-inhibiting primer at the factory.
- C. Frame: Jamb opening shall be _____ inches wide by _____ inches high. Frame profile shall be double rabbeted and have a 2 inch face dimension by 5-1/2 inch depth. Corners shall be mitered, welded and ground smooth. Knock down frames are unacceptable. Door frames shall have 6 T-strap anchors for installation into new coursed masonry walls (or shall be prepped for existing masonry opening, or shall be prepped for built in stud wall installation).
- D. Doors: Doors shall be of all welded construction. Doors are 1-3/4 inches thick with 1/8 inches thick internal reinforcing channels.
- E. Preparation: Door/Frame assembly shall be mortised, reinforced, drilled and tapped at the factory in preparation for mortise lockset.
- F. Hardware and Accessories: Provide the assembly manufacturer's standard door package hardware and accessories, including:
 - 1. Sargent 8204 mortise lockset with LNJ lever trim or equal.
 - 2. A Yale 4400 heavy duty closer.
 - 3. Continuous CBP #12252 stainless steel bullet-resisting hinge shall be drilled and tapped at the factory.
 - 4. Other hardware shall include 3 Glynn-Johnson #64 silencers and 6 adjustable strap anchors for masonry walls.
 - 5. Other options: **Electric Strike**, Folger Adam 310-2-3/4, 24VAC. x LCBMA x (satin chromium)finish. (Note: Access control and transformer for electric strike are supplied by installer) **Insulation** is batt type fiberglass. **Threshold** of extruded aluminum with mill finish. **Weather-stripping** at head and jams with self-adhesive silicone seal. **EMA prep**: manufacturer provides bolt and screw anchor preparation and proper frame reinforcement. (Note: Bolt or screw anchors are provided by installer)
- G. Vision panel: Vision panel shall be _____ inches wide by _____ inches high with flush appearance on threat side and applied glazing stops on the protected side. Stops shall have mitered corners and the same finish as the door.

- H. Glass Armor: UL 752 listed bullet resistant transparent laminated type glass (or type glass clad polycarbonate) of _____ (see below) thickness and UL listed level _____ (see below). Manufacturer shall furnish acoustic rubber spacers. All other glazing materials shall be provided by glazier.

<u>Glass Thickness</u>	<u>Glass Clad Polycarbonate</u>	<u>UL level*</u>
1-3/16"	3/4"	level 1
1-1/2"	1"	level 2
1-3/4"	1-3/16"	level 3
2"	1-1/4"	level 4
	2-3/8"	level 5 (w/o Package Passer)
	2-3/8"	level 8 (w/o Package Passer)

- I. Sill: Sill shall be stainless steel with integral deal tray and voice panel and shall be 3 inches high by the width of the window by 11 inches. Sill is bolted to three sided window frame.
- J. Deal Tray/Voice Panel Sill: Window shall be single deal tray type with voice panels adjacent to the deal tray in sill. Deal tray shall be sized to pass items not exceeding 12-3/4" width and 1-5/8" height and shall be mortised and integral to sill. Voice panels shall include an acoustically balanced natural voice transmission system. Deal tray and voice panels shall be of stainless steel with brushed finish.
- K. OPTIONAL: Chicago Bullet Proof Systems standard PP with UL label for assembly in door below the window. Package passer shall be construction from Chicago Bullet Proof's certified Shot-Tex bullet resistant steel and shall bear a UL label.
1. Size: Package passer shall have an interior clear dimension of 14-3/8 inches wide by 11-5/8 inches high by 12-5/8 inches deep. The required wall opening shall be 16-1/2 inches wide by 16 inches high. Maximum wall thickness shall not exceed 9-1/4 inches.
 2. Hardware: Package passer shall have mechanically interlocking doors permitting only one door to be opened at a time, and shall be complete with hardware consisting of:
 - a. **Hinges:** a continuous heavy duty hinge on both doors
 - b. **Pull handles:** stainless steel pull handle on exterior door and three position control handle on interior door permitting: exterior unlocked-interior locked, both doors locked, or exterior locked-interior unlocked.
 - c. **Closer:** return spring closer on exterior door.
 - d. **Options:** Control handle with key lock and weather stripping for exterior doors.
 3. Finish: Finish for package passer shall be _____ (select one from below)
 - a. all prime painted.
 - b. an exterior door and mounting from of brushed stainless steel and the balance of unit shall be prime painted.

or

- c. all exposed surfaces of both doors, both mounting frames, body and interior shelf of brushed stainless steel and the balance of unit shall be prime painted.
- 4. Package passer assembly shall be UL listed and labeled to ballistic levels defined in the Standard for Safety UL 752 for the following ballistic level * _____(level 1, level 2, level 3, level 4)
- L. Commercial Door/Frame 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, *w/o package passer*, or level 8 *w/o package passer*)

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

PART 3 - EXECUTION

MODEL DL

PART I - GENERAL

PART 2 - PRODUCTS

(2.01) **BULLET RESISTANT AND FIRE RESISTANT DOOR/FRAME ASSEMBLIES:** Standard DL Dual Label Door and Frame assembly 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 DL Bullet Resistant and Fire Resistant Door/Frame with UL label for assembly. Door/Frame shall be constructed from UL listed Shot-Tex bullet-resistant steel and shall bear a UL label.
- B. Finish: Prior to pre-hanging door in frame, all exposed welds shall be ground smooth and assembly shall be given a spray coat of rust-inhibiting primer at the factory.
- C. Frame: Jamb opening shall be _____ inches wide by _____ inches high. Frame profile shall be double rabbeted and have a 2 inch face dimension by 5-1/2 inch depth. Corners shall be mitered, welded and ground smooth. Knock down frames are unacceptable. Door frames shall have 6 T-strap anchors for installation into new coursed masonry walls (or be prepped for existing masonry opening).
- D. Doors: Doors shall be of all welded construction. Doors are 1-3/4 inches thick with 1/8 inches thick internal reinforcing channels.
- E. Preparation: Door/Frame assembly shall be mortised, reinforced, drilled and tapped at the factory in preparation for mortise lockset.
- F. Hardware and Accessories: Provide the assembly manufacturer's standard door package hardware and accessories, including:
 - 1. Sargent 18-8204 mortise lockset with LNJ lever trim or equal.
 - 2. A Yale 4400 heavy duty closer.
 - 3. Continuous CBP #12252 stainless steel bullet-resisting hinge shall be drilled and tapped at the factory.
 - 4. Other hardware shall include 3 Glynn-Johnson #64 silencers and 6 adjustable strap anchors for masonry walls.
 - 5. Other options: **Electric Strike**, Folger Adam 310-2-3/4, 24VAC. x LCBMA x (satin chromium)finish. (Note: Access control and transformer for electric strike are supplied by installer) **Insulation** is batt type fiberglass. **Threshold** of extruded aluminum with mill finish. **Weather-stripping** at head and jambs with self-adhesive silicone seal. **EMA prep**: manufacturer provides bolt and screw anchor preparation and proper frame reinforcement. (Note: Bolt or screw anchors are provided by installer)
- G. Door/Frame assembly shall be UL listed and labeled to ballistic level 4 as defined in the Standard for Safety UL 752, and Doors shall be classified by Underwriters' Laboratories, Inc. (UL) as being Special Purpose Fire Doors for the Three (3) hour fire/hose stream test; in accordance with Standard for Safety UL 10B.

PART 3 - EXECUTION