



# COVENANT

## Security Equipment

### BULLET RESISTANT DOORS AND FRAMES INSTALLATION INSTRUCTIONS

1. Do not remove metal shipping straps until door is in vertical position
2. Allow 3/16" between the frame and wall stud on the hinge side of the door.
3. Shim out the bottom of frame in the hinge side to provide approximately 1/8" between door and frame.
4. Install top fastener on hinge side of frame and tighten until door has proper clearance.
5. Install remaining fasteners in frame.
6. Install hardware.
7. Install security glass with approved glazing tape (Tremco 440) and setting blocks. Insure glass is installed with correct side towards threat.
8. If using TC, Glass Clad Polycarbonate (GCP) or TP products plastic side of window needs to be protected when painting the door.

If a split frame is used:

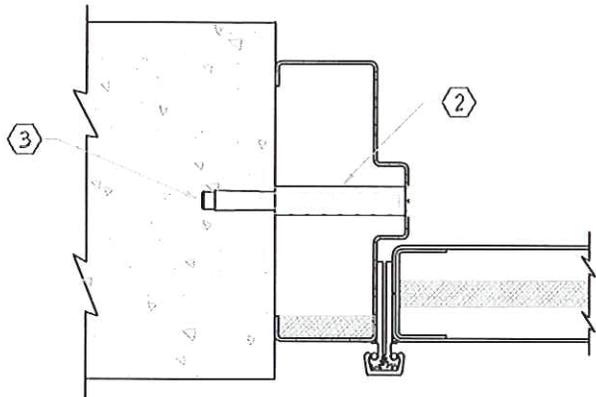
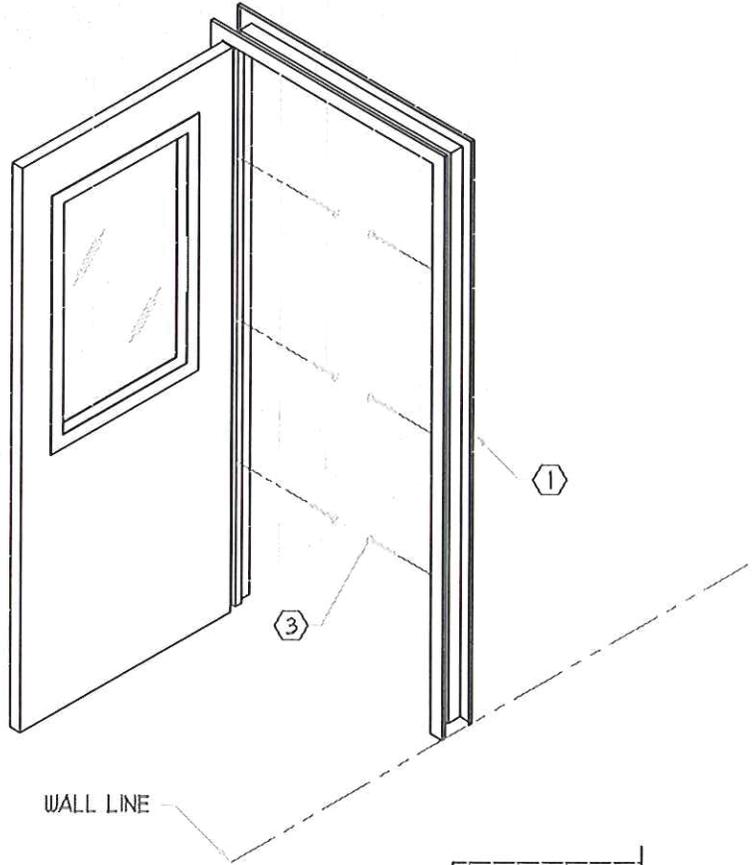
- Step 2. Install trim side of frame (door is not attached to this frame section).
- 2a. Shim as required to allow proper opening for door frame section.  
Attach with flat head screws to hold in position.
  - 2b. Install door / door frame section with flat head screws. ( not provided)

#### Masonry Concrete Wall

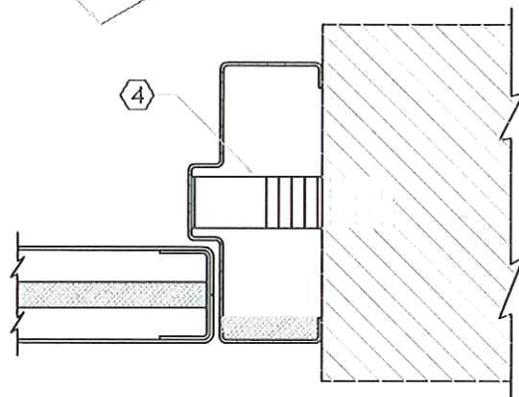
Same as above except in some cases the frame is set before the wall is built, and the wall is built around the frame (strap anchors are welded to the frame).

NOTES:

- ① 16 GA. PRIME PAINTED STEEL DOOR & FRAME
- ② TUBE SPACERS (BY OTHERS)
- ③ ANCHORS (BY OTHERS)
- ④ STRAP ANCHORS



**BUTT FRAME - EXISTING OPENING**  
(MASONRY OR CONCRETE)



**BUTT FRAME**  
(MASONRY BUILD UP)

REVISIONS			 <b>COVENANT</b> Security Equipment	BALLISTIC LEVEL	
No.	DESCRIPTION	DATE		DRN. BY:	DATE:
			TITLE:	PROJECT NAME:	A. Perez 03-14-03
			CSE BULLET RESISTANT DOOR INSTALLATION DRAWING		CHKD. BY:
			UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	SCALE: NONE	PROJECT No.
					DRAWING No. INST2000
					SHEET 1 OF 1



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### **Installation Guidelines For Proper Performance of Hollow Metal Ballistic Resistant Doors and Frame**

*Note to the Installer: It is the responsibility of the General Contractor using experienced personnel to carry out the following recommendations on the installation of Hollow Metal Ballistic Resistant Doors and Frames.*

1. Check all frames for correct size and swing.
2. With the temporary spreaders removed at the installation point, the frames are to be corrected for squareness, alignment, twist and plumb.
  - a. Squareness-measured at rabbet on a line perpendicular to the frame head.
  - b. Alignment-measured at the opposite face of jambs on parallel lines, perpendicular to the plane of the door rabbet.
  - c. Plumbness- measure at the jambs on a perpendicular line from the head to the floor.
3. Permissible installation tolerances shall not exceed 1/16 in. (1.5mm)

*The above installation tolerances are for guidance only. Note there can be a cumulative affect if several of the tolerances are at their maximum limit. Installers should be made aware of a tolerance stack-up that may prevent the door from functioning properly.*

4. Grouting of frames may place large hydraulic forces on the door frame. It is essential that all frame and header sections be properly supported during the grouting process. *Under no circumstances shall the installer utilize a plaster based grout.* Any grout with a slump 4 in. or greater may require additional precaution at all locations where leakage may occur. All grout must be cleaned off of exposed frames immediately after installation.
5. Handling of large ballistic door panels is best carried out using a lift mounted with a boom extension, chain sling and lift eyes with ½ -13 NC threaded eye bolts. Make sure the lift is capable of handling the combined weight of the extension boom and door.



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