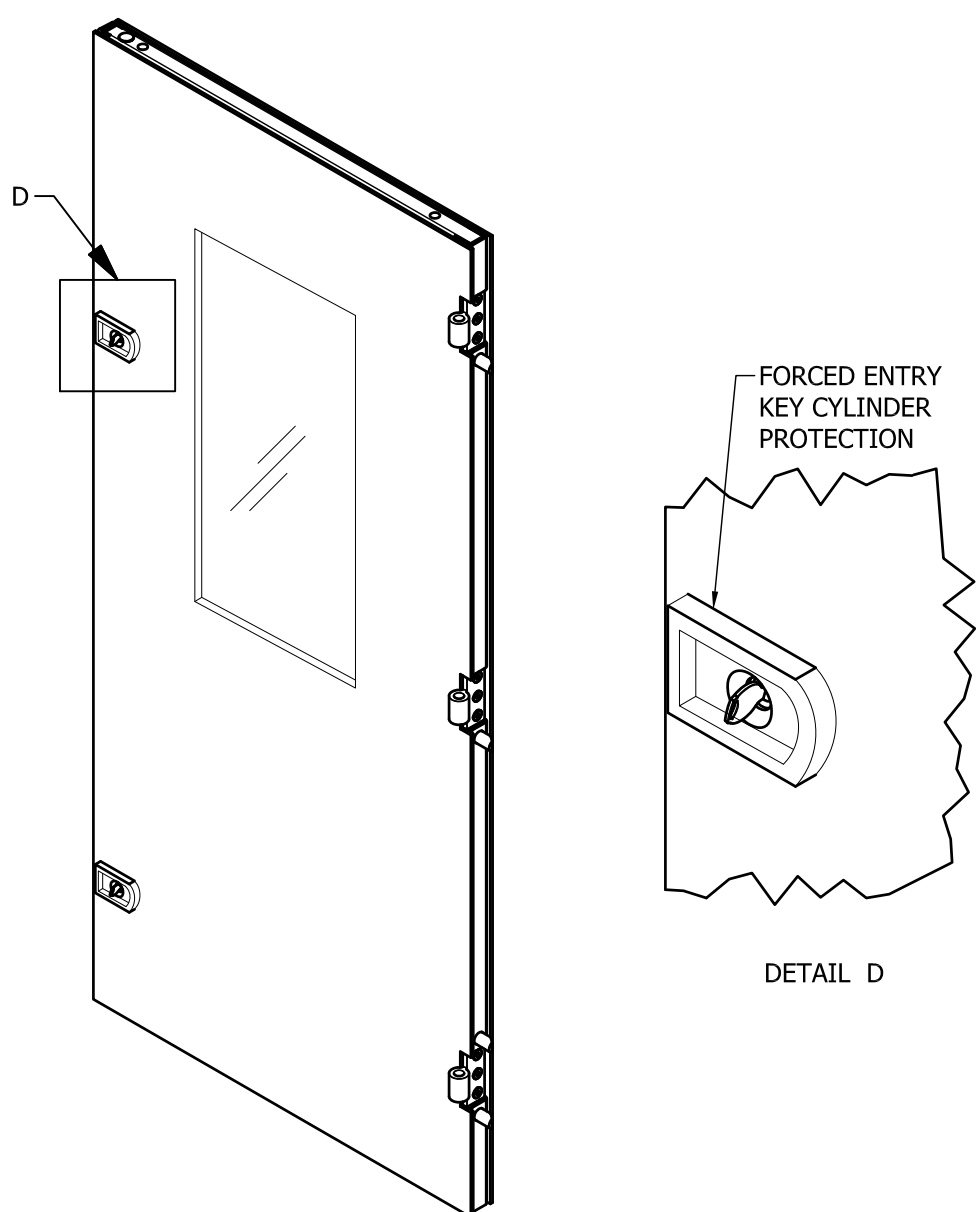
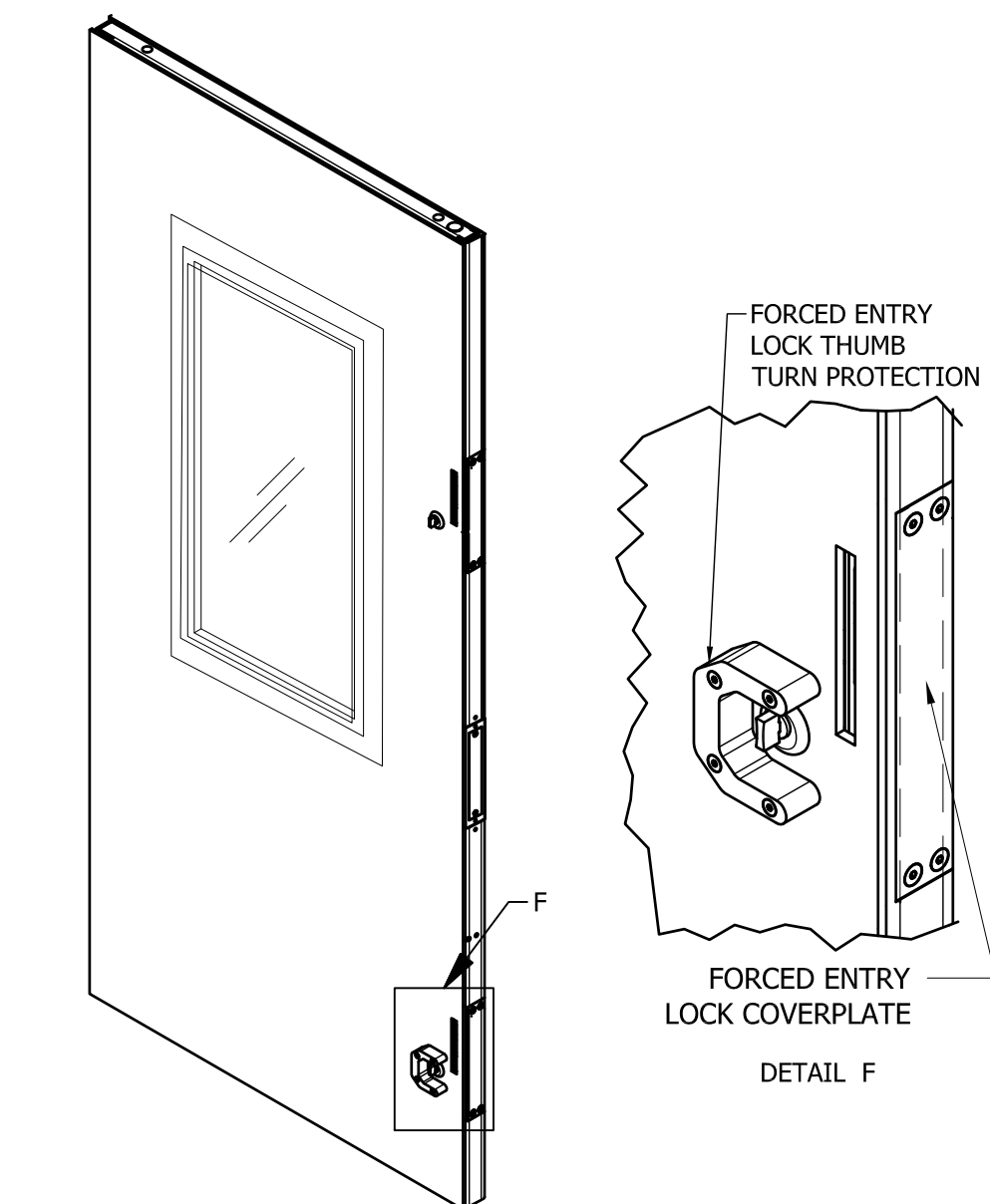


# HABERSHAM METAL PRODUCTS COMPANY - COMMERCIAL SECURITY

## 15 MINUTE FORCED ENTRY / BALISTIC RESISTANT DOOR & FRAME



### HOLLOW METAL DOORS

#### A. Materials:

- Doors shall be constructed of commercial quality, level, cold-rolled steel conforming to ASTM A36 / A36M or hot rolled, pickled and oiled steel conforming to ASTM A1011 / A1011M. The steel shall be free of scale, pitting, coil breaks or other surface blemishes. The steel shall also be free of buckles, waves or any other defects caused by the use of improperly leveled sheets.
- Exterior Doors: Face sheets shall be minimum thickness as indicated in the schedule, and shall have a zinc coating applied by the hot-dip process conforming to ASTM A653/A653M, Coating designation A60/G60.
- Interior Doors: Face sheets shall be minimum thickness, as indicated in the schedule. Where scheduled, face sheets of interior doors shall have a zinc coating conforming to ASTM A 653/A 653M, Coating designation A60/G60, or otherwise shall conform to either ASTM A36/ A36M or ASTM A1011 / A1011M.
- For severely corrosive conditions and where specified for individual openings either interior or exterior: Face sheets shall be minimum thickness as indicated in the schedule, and shall be stainless steel meeting ASTM A666, type 304.

#### B. Construction:

- All doors shall be of the types and sizes shown in the contract documents and on the approved submittal drawings. Doors shall be constructed in accordance with these specifications and in accordance with the applicable performance requirements of Section 1.06. Doors shall be neat in appearance and free from warpage and buckle. Edge bends shall be true and straight and of minimum radius for the material used.
- Door face sheets shall be joined at their vertical edges by a continuous weld extending the full height of the door. After welding, edge seams shall be ground, filled and finished flush in order to completely conceal the seams.
- The internal construction of FE/BBFR doors shall be in accordance with the manufacturer's certified design as shown in the manufacturer's submittal package in accordance with performance specifications.
- The vertical edges as well as the tops and bottoms of FE/BBFR assemblies shall be reinforced by a continuous steel channel of the necessary thickness and welded in place in such a manner as to enable the completed assembly to meet performance requirements.
- FE/BBFR doors shall be provided with hardware reinforcements and preparations in accordance with the manufacturer's certified design, and templates. Doors shall be mortised, reinforced, drilled and tapped at the factory for fully templated mortised hardware only, in accordance with the final approved hardware schedule and templates provided by the FE/BBFR assembly manufacturer.

### HOLLOW METAL FRAMES

#### A. Materials

- Frames shall be constructed of commercial quality, cold rolled steel conforming to ASTM A36 / A368M or hot rolled, pickled and oiled steel conforming to ASTM A1011 / A1011M. The steel shall be free of scale, pitting, coil breaks or other surface defects.
- Exterior openings: Steel for these openings shall be minimum thickness and shall have a zinc coating applied by the hot-dip process conforming to ASTM A653/A653M, Coating designation A60 or G60.
- Interior openings: Steel for these openings shall be minimum thickness, and shall conform to ASTM A36 / A36M or ASTM A1011 / A1011M.

#### B. Construction:

- All frames shall have integral stops and be welded units of the sizes and types shown in the contract documents and on the approved submittal drawings.
- All finished work shall be neat in appearance, square, and free of defects, warp or buckle. Pressed steel members shall be straight and of uniform profile throughout their lengths.
- Jamb, header, mullion and sill profiles shall be in accordance the approved submittal drawings. All frame sections shall be fabricated, and all frames shall be assembled, in accordance with the manufacturer's certified FE/BBFR design.
- Corner joints shall have all contact edges closed tight with faces mitered and stops butted. Corner joints shall be continuously welded and faces finished smooth.
- Minimum height of stops in door openings shall be 3/4 in. (19 mm) minimum. The height of stops in FE/BBFR glass or panel openings shall be as shown on approved submittal drawings.
- Frames for multiple openings shall have mullion members which, after fabrication, are closed tubular shapes conforming to profiles shown on approved submittal drawings, and having no visible seams or joints. All joints between faces of abutted members shall be continuously welded and finished smooth. All joints between stops of abutted members shall be welded along the height of the stop and shall be left neat and uniform in appearance.
- FE/BBFR frames shall be provided with hardware reinforcements and preparations in accordance with the manufacturer's certified design, and templates. Where surface mounted hardware - anchor hinges, thrust pivots, pivot reinforced hinges, or non-templated mortised hardware - is to be applied, frames shall be reinforced, and all drilling and tapping shall be done by others in the field.
- FE/BBFR frames shall be provided with jamb anchor systems in accordance with the manufacturer's certified design, and in accordance with performance specifications. The embed anchor plates when used shall be provided with anchors as required to meet performance specifications.

### BULLET PENETRATION

When specified by the contract documents, test door assemblies for bullet penetration resistance in accordance with Level 4- 8 UL-752 (UL listing file BP4470), or SD-STD-01.01, Rev. G.

### IMPACT TESTING

Impact testing under this section is performed using the methods and testing equipment described in ASTM F 1450 for hard body impacting and ASTM F 1592 for all vision system impact testing. Hardware must be of equal rating.

### FORCED ENTRY ATTACK TEST

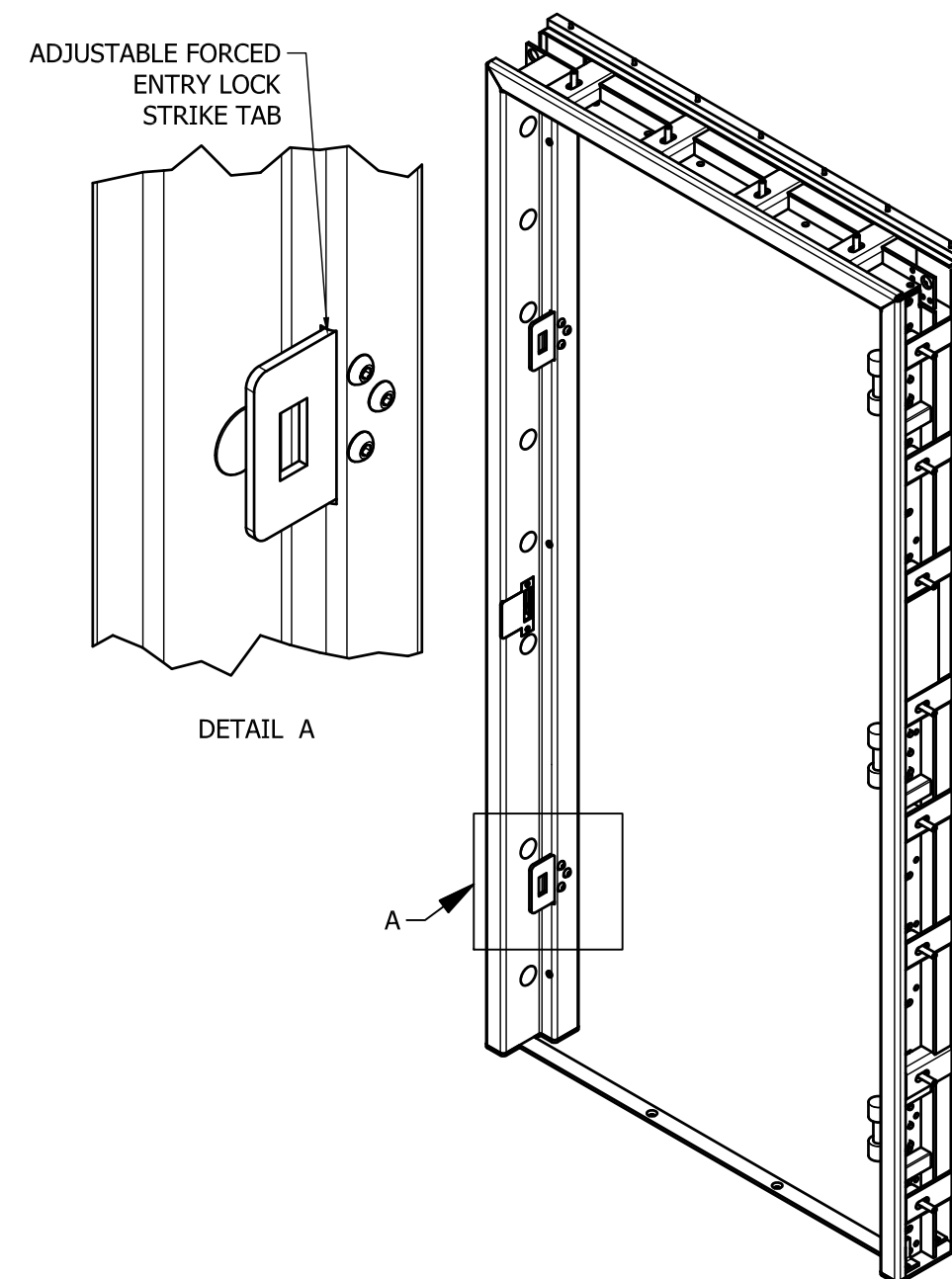
Door and frame and/or window assemblies tested in accordance with SD-STD-01.01, Revision G, Certification Standard for Forced Entry and Ballistic Resistance of Structural Systems.

### BLAST RESISTANCE

Blast resistance to 15 psig static ASTM F2247. Dynamic loading 41 psi short duration less than 120 psi.msec impulse subject to project specific analysis..

### FIRE RATINGS

Fire ratings up to 3 Hour in accordance with UL9, UL 10c, NFPA 80. (UL listing Files R3904 R4446 R15281) (Three Point FE Latching Hardware available for Fire Egress and Exits.)



<b>DESIGNED BY</b>	<b>DATE</b>	<b>DRAWN BY</b>	<b>DATE</b>	<b>JOB</b>	<b>HMP ELEVATION</b>
	2-22-17	BT/US/II	2-22-17	Technical Data Sheet Commercial Security	REV
<b>PROPRIETARY AND CONFIDENTIAL</b>				<b>DRAWING NAME</b>	<b>SCALE</b>
NOTICE: THIS DRAWING IS HABERSHAM METAL PRODUCTS COMPANY PROPERTY. IT CONTAINS THE PROPRIETARY AND CONFIDENTIAL INFORMATION OF HABERSHAM METAL PRODUCTS COMPANY. NO DISCLOSURE TO OTHER PARTIES WITHOUT WRITTEN CONSENT OF HABERSHAM METAL PRODUCTS COMPANY.				15 MIN FE/BR OPENING	SHEET
				<b>MATERIAL</b>	1 / 1
				<b>RELEASE</b>	<b>SIZE</b>
				2-20-18	1 / 1

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