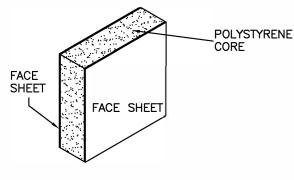
ASSA ABLOY

D7-1

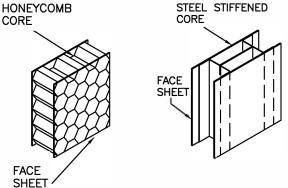
1-3/4" ARMORSHIELD (AP) POLYSTYRENE FOAM CORE

(OPTIONAL - (AI) HONEYCOMB CORE) OR (OPTIONAL - (AS) STEEL STIFFENED CORE) UL LISTED BULLET RESISTANT DOOR and FRAME SYSTEM

TESTED IN ACCORDANCE WITH UL STANDARD FOR SAFETY BULLET RESISTANT EQUIPMENT TEST: UL752



The ArmorShield system is rated for super power small arms (SPSA) and is intended for architectural environments with equivalent bullet resistance. The system has not been tested for resistance to forced entry. Field assembly is required as is preparation for surface applied hardware. System must be installed securely by contractor in a manner to achieve the intended functional operation and appearance. The polystyrene core provides excellent insulation characteristics making the system a good choice for exterior use.

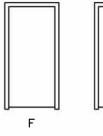


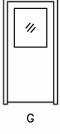
Suggested Use:

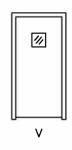
Interior or Exterior ...

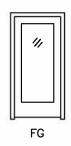
Public Utility Field Buildings, Box Offices, Cashier Islands, Currency Exchanges, Ticket Booths

DOOR DESIGNS

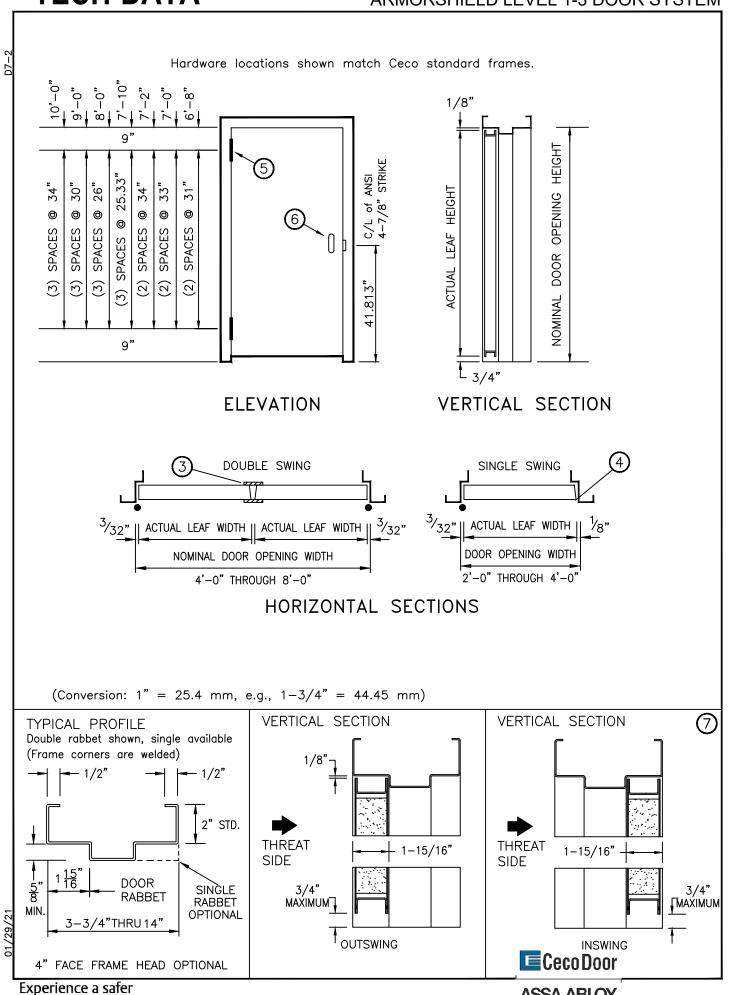








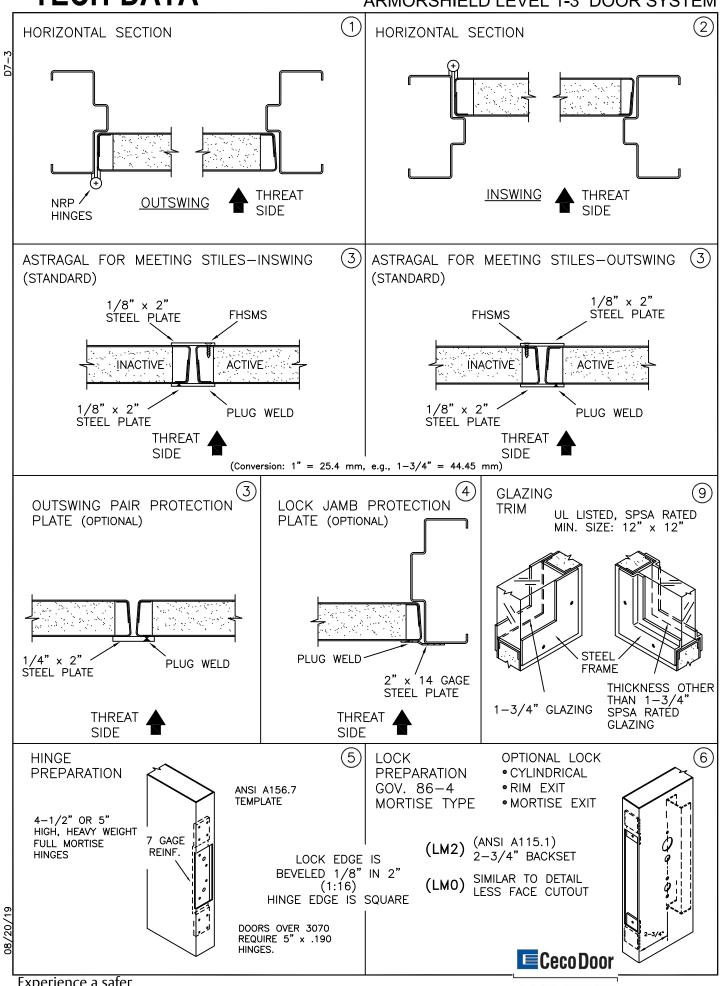
BALLISTIC LEVEL	WEAPON TYPE	BULLET TYPE	BULLET VELOCITY	MUZZLE ENERGY 380-460 ft/lbs	
I	9mm	FULL METAL JACKET 124gr	1234 ft/s		
II	.357 Mag	JACKETED LEAD POINT 158gr	1312 ft/s	743-889 ft/lbs	
III	.44 Mag.	LEAD SOFT POINT 240gr	1417 ft/s	1370-1593 ft/lbs	



and more open world

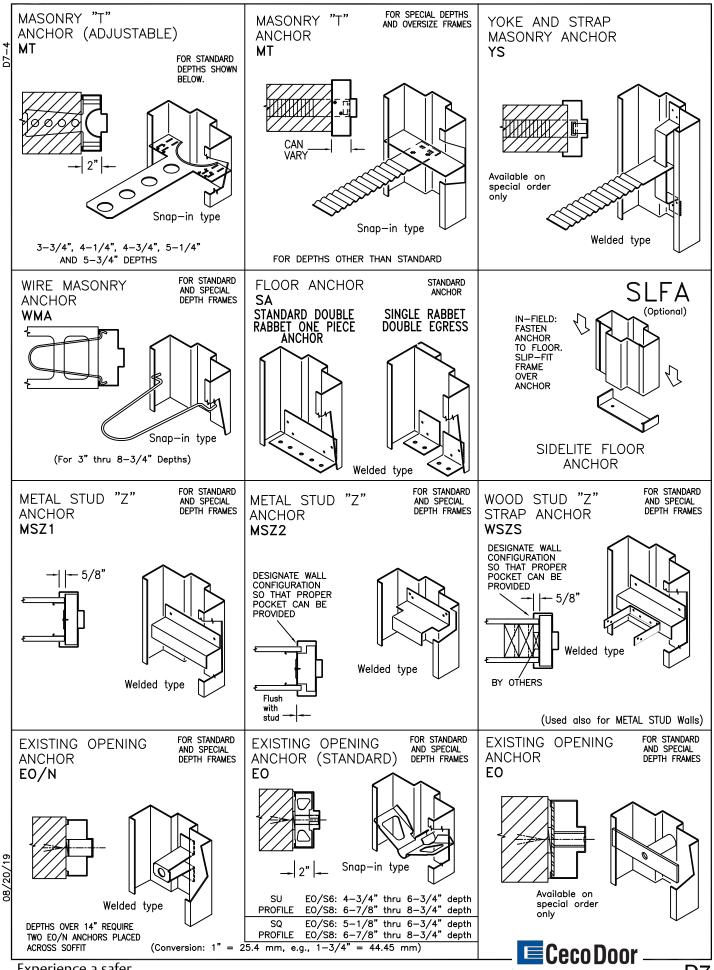
TECH-DATA

ARMORSHIELD LEVEL 1-3 DOOR SYSTEM



Experience a safer and more open world

TECH-DATA



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PRODUCT SPECIFICATIONS:

1-3/4" Thick steel doors shall be by Ceco Door Products. Door shall conform to the Steel Door Institute guide specification, ANSI A250.8 and NAAMM 867 specifications. See chart below for performance classifications.

The Armorshield system is listed in the UL Burglary Protection Directory and complies with Standard for Safety Bullet Resisting Test, UL752. Doors and frames must be supplied together and are commercial quality cold rolled steel conforming to ASTM A1008 ...or (optional) hot-dipped galvannealed or galvanized steel conforming to ASTM A653 and A924.

Armorshield doors are seamless design. Door face sheets are joined at their vertical edge with a center seam that is welded the full height of door. Welds are ground, filled, and dressed smooth. Seams are invisible and surface is smooth. Face sheets are totally supported by a 0.7 LB/CF density styrene core chemically bonded to interior surface. As an option, Kraft honeycomb core or steel stiffened core is available as well. The top and bottom of the door is closed with welded-in inverted channels welded to both face sheets. Top and bottom caps are optional.

Armorshield frame profiles are double and single rabbet in depths from 3" through 14" of all welded corner construction. Jamb anchors for masonry and stud walls are available.

Armorshield glass lites are SPSA rated with steel framing.

Hardware Provisions: Hinge preparations are handed. Hinge edges are mortised for 4-1/2" (up to 3'0 x 7'0) or 5" high (over 3'0 x 7'0), heavy weight hinges. 7 gage steel hinge reinforcements are welded inside the door edge and are drilled and tapped for fasteners in accordance with ANSI A156.7. The lock edge has a standard bevel (1:16). Hinge edge is square. Lock edge is prepared for Gov. Series 86 or 160/161 locks in accordance with ANSI A115 (specify which). Architect note: Doors over 3070 require 5" x .190" hinges. Hardware is not required to be by Ceco Door.

Paint: 1-3/4" steel doors shall be provided with one coat of oven-cured neutral color primer paint. Primer coat shall conform with ANSI A250.10. The primer coat is a preparatory base for necessary finish painting. Colorstyle paint is not available applied to the door from the factory. Colorstyle paint is available with armorshield frames up to 4'0" x 8'0".

STANDARD SIZES NOMINAL DOOR OPENING

WID	HEIGHT	
SINGLE	DOUBLE	TILIGITI
2'-0" 2'-4" 2'-6" 2'-8" 2'-10" 3'-0" 3'-4" 3'-6" 3'-8" 3'-10" 4'-0"	4'-0" 4'-8" 5'-0" 5'-4" 5'-8" 6'-0" 6'-8" 7'-0" 7'-4" 7'-8" 8'-0"	6'-8" 7'-0" 7'-2" 7'-10" 8'-0" 9'-0" 10'-0"

FOR OPENINGS GREATER THAN 4'0" IN WIDTH OR 10'0" IN HEIGHT, CONSULT FACTORY.

FIRE DOORS

LABELING AGENCY: UL SOLUTIONS

TEST: UL 10B, UL 10C, UL 1784, & NFPA 252

STEEL STIFFENED CORE 20 MIN., 3/4 HOUR, 1 HOUR & 1-1/2 HOUR

SINGLE SWING

MAX. SIZE 4'0" X 8'0"

MORTISE LOCK or
MORTISE EXIT

PAIRS NOT AVAILABLE

•GLASS LITES & LOUVERS NOT AVAILABLE

MATERIAL

ITEM	THICKNESS	COLD ROLLED STEEL	A60 GALV. STEEL
DOOR FACE SHEETS	12 GAUGE	STD.	OPT.
FRAME	12 GAUGE	STD.	OPT.

PERFORMANCE

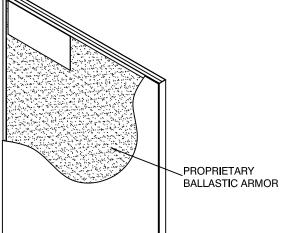
Polystyrene Core Thermal Insulation:	Calculated R Factor = 6.35 (ASTM C518)
Physical Endurance	Meets ANSI A250.4 Performance Test,
/Level:	Level A (1,000,000 Cycles)

Ceco Door

ASSA ABLOY

1-3/4" ARMORSHIELD LEVEL 4 THRU 8 BULLET RESISTANT DOOR AND FRAME SYSTEM

TESTED IN ACCORDANCE WITH STANDARD FOR SAFETY BULLET RESISTANT EQUIPMENT TEST: UL 752



Vertical stiffeners placed to support the bullet resistant armor.
Conforms to UL 752

Suggested Use: Interior or Exterior ...

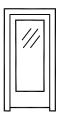
Openings For The Protection Of: Personnel Or Equipment, Telephone Repeater Stations, Unmanned Utilities Stations, ATM Buildings, Shooting range

DOOR DESIGNS

12" x 12" MIN. VISIBLE GLASS



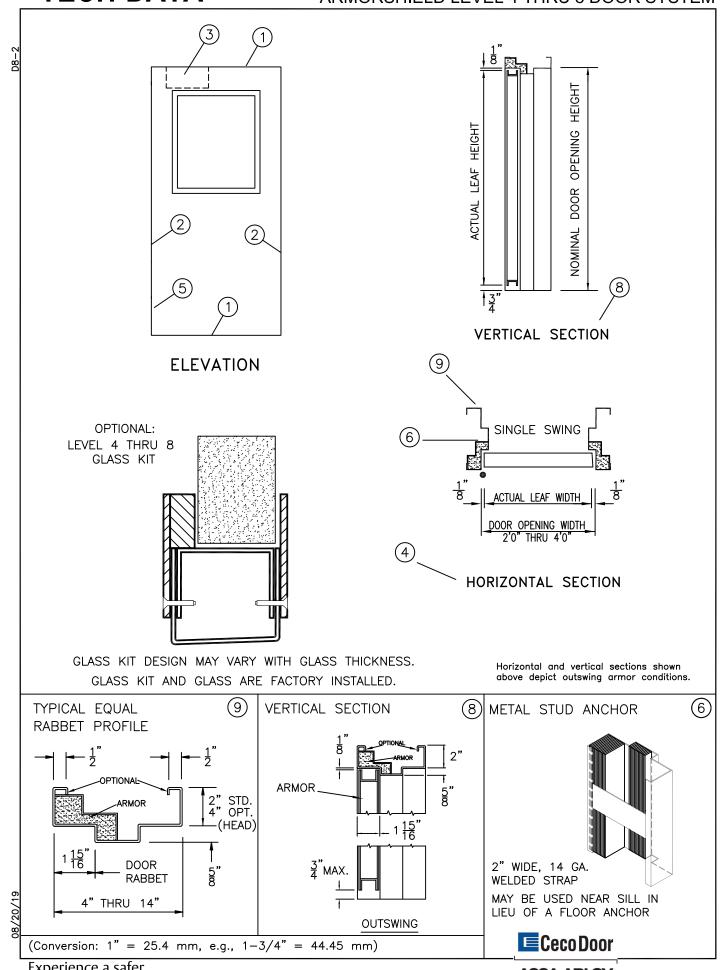




FG

UL 752 RATINGS of BULLET RESISTANT MATERIALS

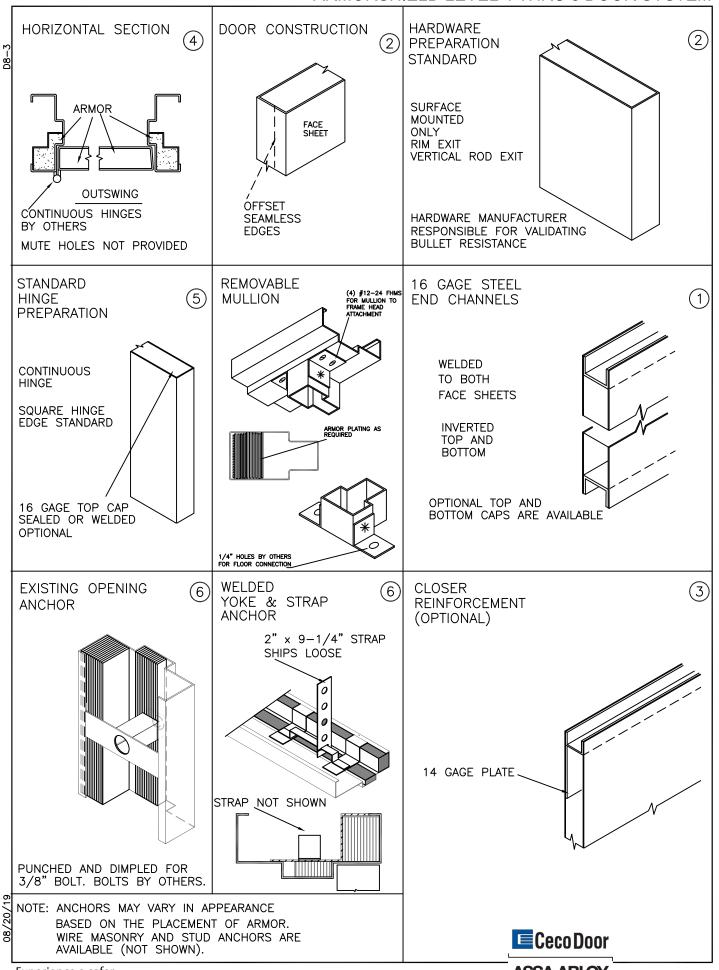
				Velocity		Number
RRatings Ammunition		Grains	Weight	MIN. (FPS)	MAX. (FPS)	of Shots
LEVEL 4	.30 Caliber Rifle Lead Core Soft Point	180	11.7	2540	2794	1
LEVEL 5 7.62mm Rifle Lead Core Full Metal Copper Jacket, Military Ball		150	9.7	2750	3025	1
LEVEL 6 9mm Full Metal Copper Jacket with with Lead Core		124	8.0	1400	1540	5
LEVEL 7 5.56mm Rifle Full Metal Copper Jacket with Lead Core		55	3.56	3080	3383	5
LEVEL 8 7.62mm Rifle Lead Core Full Metal Copper Jacket, Military Ball		150	9.7	2750	3025	5



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TECH-DATA

ARMORSHIELD LEVEL 4 THRU 8 DOOR SYSTEM



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STANDARD SIZES NOMINAL DOOR OPENING

WIDTH	HEIGHT				
SINGLE					
2'-0" 2'-4" 2'-6" 2'-8" 2'-10" 3'-0" 3'-4" 3'-6" 3'-8" 3'-10" 4'-0"	6'-8" 7'-0" 7'-2" 7'-10" 8'-0" 9'-0"				

FOR FIRE RATED PRODUCTS
CONTACT THE FACTORY
PHONE: 218-828-6256

CLASSIFIED BULLET RESISTANT LABELS NOT AVAILABLE

PRODUCT SPECIFICATIONS:

1-3/4" thick ArmorShield Level 4 thru 8 bullet resistant doors shall be provided by Ceco Door Products. Doors & frames shall provide bullet resistance in accordance with UL 752. Assembly is equipped with hollow metal door, frame and crated for shipment. Door weight is 24 pounds per square foot.

ArmorShield Level 4 thru 8 doors are seamless design. Door edges are continuously welded seams and ground smooth. No seams are visible on faces or vertical edges. Face sheets are commercial quality 14 gage steel conforming to hot-dipped galvannealed or galvanized steel (conforming to ASTM A924 and A653) - see chart below.

ArmorShield Level 4 thru 8 frames are double rabbet profile 14 gage steel. Frames depths vary from 4" through 14" of all welded construction. Mute holes are not provided. Adhesive silencers should be applied.

ArmorShield Level 4 thru 8 glass lites are optional. Minimum visible glass size is 12" x 12". Glass is factory installed.

Hardware Provisions: Continuous hinges are recommended. Continuous hinge edge reinforcements are optional. The door lock edge has a standard bevel (1/8" in 2") and is prepared for surface mounted hardware. Concealed hardware is not available. Surface mounted closer reinforcement is available for door and frame. Hardware manufacturer is responsible for validating bullet resistance.

Paint: All exposed surfaces of door and frame shall be provided with one coat of oven-cured neutral color, rust inhibitive prime paint. The primer coat is a preparatory base for necessary finish painting. Factory finish paint is not available.

MATERIAL

D	OOR FACE	SHEETS	BULLET RESISTANCI LEVEL	DOOR & FRAME A60 GALVANIZED	DOOR & FRAME G90 GALVANIZED	FRAME MATERIAL
	14 GAGE	STEEL	4 THRU 8	STD	OPT	14 GAGE

ECeco Door