

Republic

Bullet resistant doors and frames



Overview

Republic's bullet resistant doors and frames are designed for applications where security is top of mind and ballistic protection is required, such as public utility and military buildings, cashier islands, currency exchanges, and cellular tower units. These assemblies can be used in exterior or interior applications.

Republic offers up to eight levels ballistic performance, ranging from 9mm handguns (Level 1) up to 7.62mm military assault rifles (Level 8). All bullet resistant doors are tested and labeled in accordance with UL752 and constructed per SDI Level 4.

Republic's ballistic doors come standard with polystyrene or mineral wool core. These solutions can be tailored to your needs to offer protection and peace of mind.

Features and benefits

- SDI level 4 - maximum duty - performance level a
- Flush top channel standard for exterior applications
- All doors have insulated polystyrene or mineral wool core as standard, including proprietary armor plating construction for levels 2-8
- Seamless vertical edges
- 5 3/4" minimum jamb depth
Single doors through 4'10" x 10'0" opening
- Paired openings through 9'8" x 10'0"*
- 4 1/2", 5" butt and continuous hinge preparations available
- Glass lights available (consult factory; exclude glass and glazing)
- Various hardware offerings available
- Elevations available

Tested protection levels per UL752

The UL752 Ballistic Standard defines 8 levels of protection, shown below. Republic's bullet resistant systems have been tested to effectively stop projectiles at each of the 8 levels.

Level	No. of shots		Ammunition	Grain	Min. velocity	Results
	Min. required	Tested				
1	3	19	9mm full metal copper jacket	124	1,256 fps	Pass
2	3	19	.357 Magnum	125	1,250 fps	Pass
3	3	19	.44 Magnum lead semi-wad cutter gas checked	240	1,350 fps	Pass
4	1	19	.30 caliber rifle lead core	180	2,540 fps	Pass
5	1	5	7.62mm rifle full metal jacket military ball	150	2,750 fps	Pass
6	5	5	9mm full metal jacket	124	1,400 fps	Pass
7	5	12	5.56mm rifle full metal jacket	55	3,080 fps	Pass
8	5	12	7.62mm rifle full metal jacket military ball	150	2,750 fps	Pass
Supplementary shotgun	3	3	12 ga. Rifled lead slug	437	1,585 fps	Pass
	3	3	12 ga. 00 lead buckshot (12 pellets)	650	1,200 fps	Pass

All door and frame assemblies tested in accordance with: UL 752-1995

Construction options by level

Republic offers the following construction options for each level of protection.

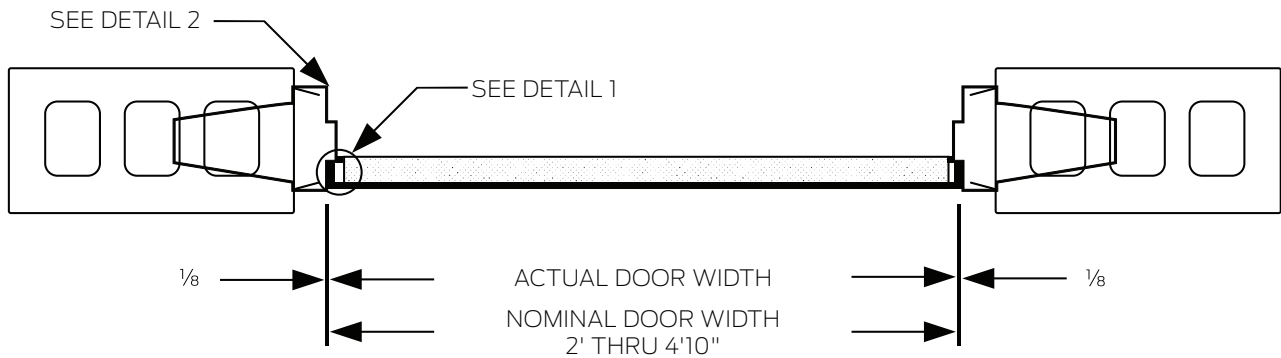
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
Core construction	Polystyrene	Proprietary core 1		Proprietary core 2				
Electrified hardware*	■	■	■	Contingent upon review				
Conduit raceways*	■	■	■	Contingent upon review				
Closers	■	■	■	Built in				
Paired openings	■	■	■					
Elevations	■							
Snap in universal anchor	■							
Masonry tee	■							
Masonry wire	■	■	■	■	■	■	■	■
Prepared opening anchor	■	■	■	■	■	■	■	■
Adjustable strap	■	■	■	■	■	■	■	■

*Electric hardware requiring wiring or conduit across the width of the door requires an engineering review.

Note: Levels 4-8 – all hardware and anchoring must be reviewed due to required construction.

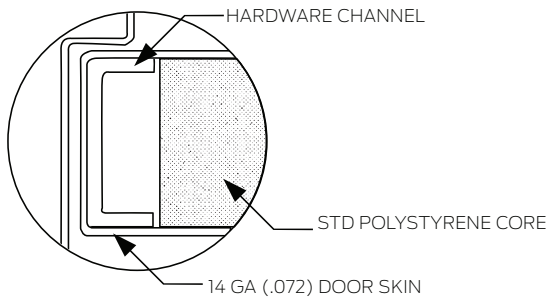
Typical Republic bullet resistant construction details

DE Series doors and ME Series frames allow the architect/specifier the highest level of performance and construction flexibility. Listed below are some of the various types of anchorage styles available along with various standard hardware preparations. High-security openings should be looked at as a full solution, rather than individual components. For this reason, Republic recommends that the adjacent walls provide the same level of bullet resistance as Republic's bullet resistant system.

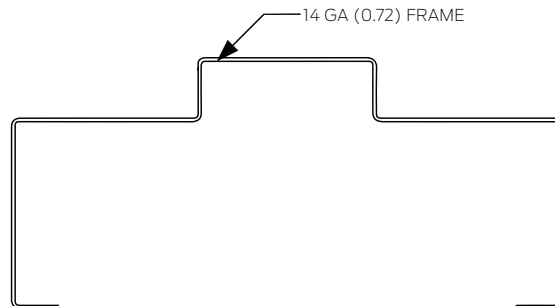


Level 1 – Standard construction

Detail 1

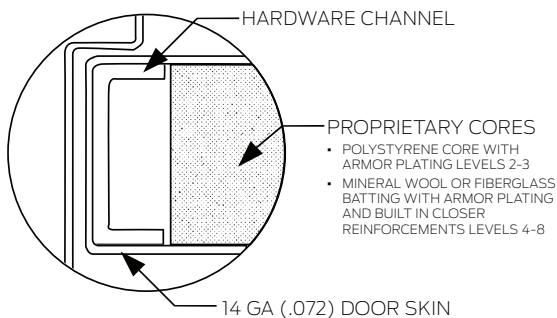


Detail 2

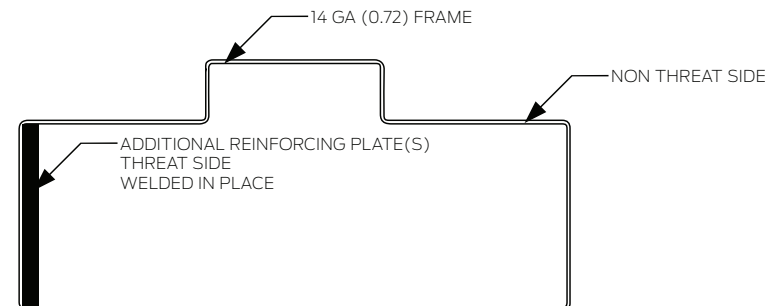


Levels 2-8 – Armor reinforced construction

Detail 1 - Typical construction

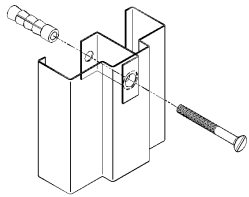


Detail 2

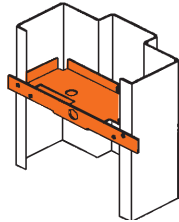


Typical Republic bullet resistant construction details (continued)

Anchor options



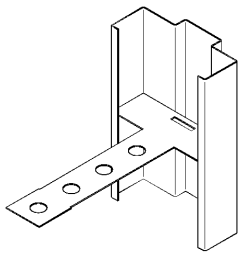
Prepared opening anchor



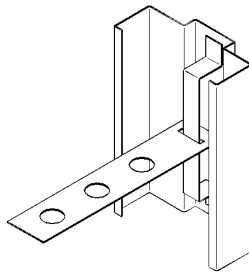
Snap in universal anchor

For technical information and specifications, view the tech data manual at republicdoor.com.

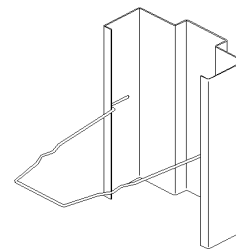
Note: Anchor type contingent on level of rating and necessary construction



Masonry Tee

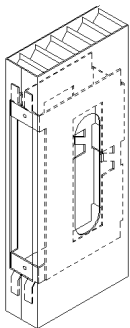


Adjustable strap

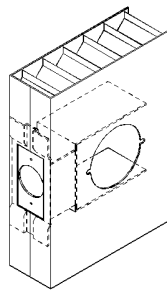


Masonry wire

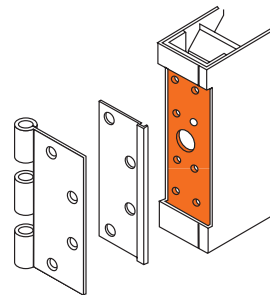
Standard hardware preps



Government 86 series mortise lock



Government 161 series cylindrical lock



4 1/2" or 5" full mortised hinge provision (continuous hinges also available)

About Allegion

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