

Bullet Resistant Assemblies



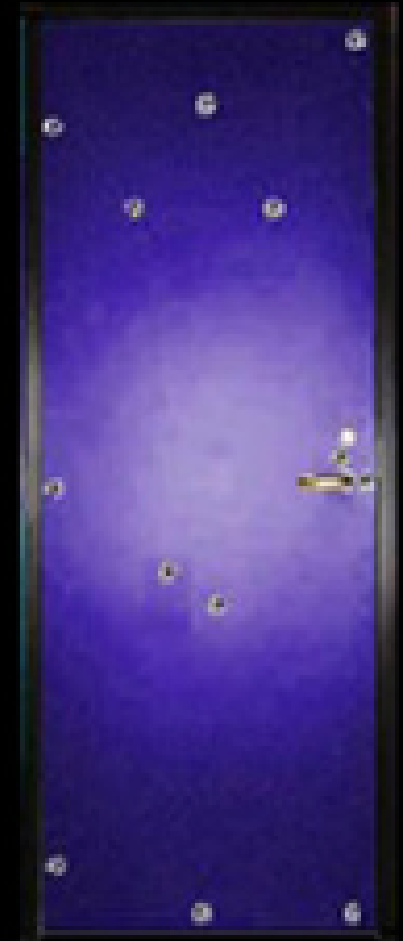
Steel Door Institute
steeldoor.org

Bullet Resistant Assemblies

Benefits: Often tested in accordance with **UL 752** and assigned a level from 1-10 that lets you know how resistant the door is to gun fire.















Applications: Used in government buildings, cashier stands, high crime rate areas and any structure where increased safety is desired.



Bullet Resistant Assemblies

- **UL 752** (*chart below*) tests materials used to form bullet-resisting barriers which protect against robbery, holdup, or armed attack.

Rating	Ammunition	Grain	(g)	Minimum velocity		Number of shots	Paragraph
				fps	(m/s)		
Level 1	 9 mm full metal copper jacket with lead core	124	8.0	1,175	358	3	4.3
Level 2	 357 magnum jacketed lead soft point	158	10.2	1,250	381	3	4.4
Level 3	 .44 magnum lead semi-wadcutter gas checked	240	15.6	1,350	411	3	4.5
Level 4	 .50 caliber rifle lead core soft point	180	11.7	2,540	774	1	4.6
Level 5	 7.62 mm rifle full metal copper jacket with lead core	150	9.7	2,750	838	1	4.7
Level 6	 9 mm full metal copper jacket with lead core	124	8.0	1,400	427	5	4.8
Level 7	 5.56 mm rifle full metal copper jacket with lead core	55	3.56	3,080	939	5	4
Level 8	 7.62 mm rifle lead core full metal copper jacket, military ball	150	9.7	2,750	838	5	4.1
Level 9	 Armor piercing .30 caliber rifle steel core lead point filler full metal jacket	166	10.8	2,715	828	1	4.11
Level 10	 .50 caliber rifle lead core full metal copper jacket, military ball	709.5	45.9	2,810	856	1	4.12
Supplementary shotgun	 12-gauge rifled lead slug <i>and</i>	437	28.3	1,585	483	3	4.11
	 12-gauge 00 lead buckshot (12 pellets)	650	42.0	1,200	366	-	-

Bullet Resistant Standards

- The standard that should be specified is often spelled out by whomever is commissioning the project.
 - **UL 752** is the most common test method, which assigns a level from 1 – 10.
 - **NIJ 0108.01** is one of the primary specifications used by the government.
 - **NCEL-MIL-SAMIT** is generally used for military projects.

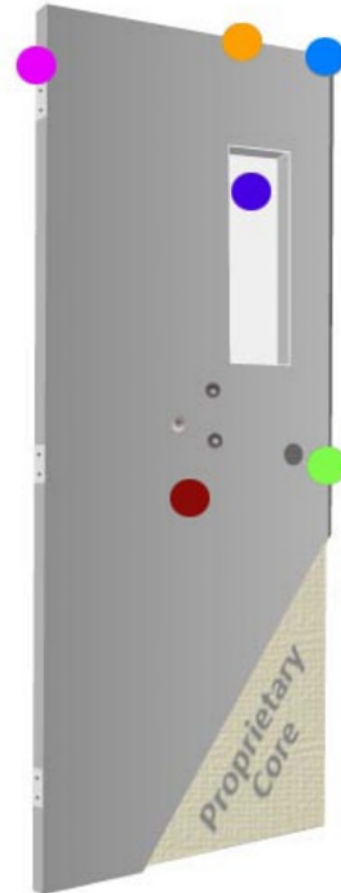
Bullet Resistant Door Options

- Architects should consider working with a security consultant to analyze the building conditions and determine the appropriate bullet resistance level.
- The doors may be flush or have full glass vision lights. They are also available in pairs.
- The doors may be fire-rated up to three hours and combined with STC and blast resistant capabilities.



Bullet Resistant Door Specs

- A variety of cores can be bullet resistant, such as steel stiffened, honeycomb, and polystyrene.
- It is only necessary to specify a **UL 752** level and not a specific core material because many of the cores are proprietary once you get into higher bullet resistance levels.



Bullet Resistant Assemblies

 **CecoDoor**

ASSA ABLOY

 **CURRIES**

ASSA ABLOY

DEAN STEEL

 **DE LA FONTAINE**
STEEL DOORS AND FRAMES

 **HOLLOW METAL ON DEMAND**

HMX



 **MESKER**

 **MPI**

 **PIONEER**

ASSA ABLOY

PREMIER
STEEL DOORS
AND FRAMES

Republic
DOORS AND FRAMES

STEELCRAFT



Steel Door Institute
steeldoor.org