



Product Update

APRIL 1, 2014

#253

Revision 01

BULLET RESISTANT DOORS

VT Industries can supply bullet resistant doors for levels 1 through 8 (per UL 752) and levels IIA through III (per N.I.J. 0108.01). Glazing is an option for most ballistic ratings and up to level 3 with 20-min fire rating. Bullet resistant metal vision panels are required for all lites. All bullet resistant level doors are available in either 1-3/4" or 2-1/4" thicknesses. Pair applications are available in ratings up to level 8. Bullet-resistant doors are available with a U.L. 20 minute fire rating.

Hardware

- Raceways and electrified hinges are allowed, but will be limited on specific combinations of door thickness and bullet resistance rating, refer to page 2.
- Any hardware that requires removal of the bullet resistant core material will require blocking, and will void the bullet resistance in that area of the door. Examples include: mortised locks, electric power transfers (EPTs), flushbolts, concealed closers, and mortised bottom seals.
- Cylinder lock machining does not require blocking.
- Bullet resistant pairs require a steel astragal of the same resistance level to maintain protection of the meeting edges.

We recommend having VT supply the bullet resistant accessories (metal vision panels, glazing and astragals) and provide factory glazing to insure proper fit and installation. VT does not provide bullet resistant door frames. We recommend customers contact Armortex at 1-800-880-8306 or <http://www.ARMORTEX.com> for frames to match the bullet resistance of our doors.

The table on page 3 shows the bullet resistance and weight by Door Model. The doors are specified and ordered on the basis of the UL 752 protection level.



Product Update

Raceways

Raceways cannot be bored in the bullet resistant core material and must be located between this core and the face of the door. Whether or not a raceway can be included in the construction depends on the size of the raceway, the thickness of the door and the thickness of the bullet resistant material. The chart below indicates when raceways are allowed.

	1-3/4" Door Thickness		2-1/4" Door Thickness	
	1/4" Raceway	3/8" Raceway	1/4" Raceway	3/8" Raceway
Level 1	Yes	Yes	Yes	Yes
Level 2	Yes	Yes	Yes	Yes
Level 3	Yes	Yes	Yes	Yes
Level 4	No	No	No	No
Level 5	No	No	No	No
Level 6	Yes	Yes	Yes	Yes
Level 7	No	No	Yes	No
Level 8	No	No	No	No

Where allowed, raceways will be routed into the assembly prior to face application.



Product Update

Door Model	Protection Rating Per UL 752	Ammunition	Comparable N.I.J. 0108.01 Rating	Weight (psf)
BR1	UL 1	9mm Full Metal Copper Jacket with Lead Core	II-A	8.4
BR2	UL 2	.357 Magnum Jacketed Lead Soft Point	II	8.8
BR3	UL 3	.44 Magnum Lead Semi-Wadcutter Gas Checked	III-A	9.6
BR4	UL 4	.30 Caliber Rifle Lead Core Soft Point (.30-06 Caliber)	III	15.6
BR5	UL 5	7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber)	III	15.9
BR6	UL 6	9mm Full Metal Copper Jacket with Lead Core	III-A	9.6
BR7	UL 7	5.56mm Rifle Full Metal Copper Jacket with Lead Core (.223 Caliber)	III-A	14.3
BR8	UL 8	7.62mm Rifle Lead Core Full Metal Copper Jacket Military Ball (.308 Caliber)	III	15.9

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