



Bullet Resistant Doorsets and Windows



Security, Ballistic and Blast Solutions

STANDARDS

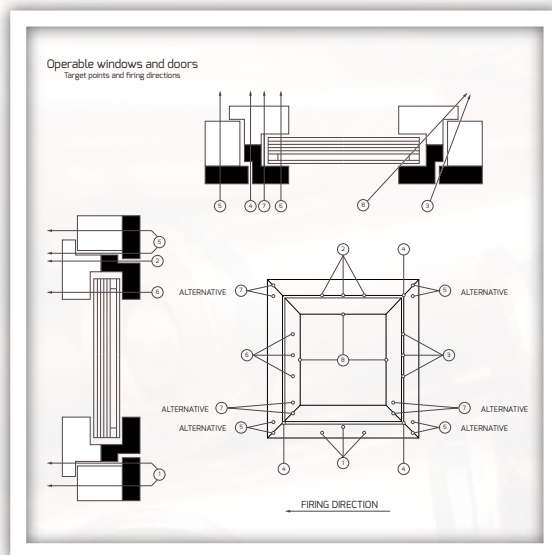
BS EN 1522 / 1523

Introduction of the European Standards BS EN1522/1523 has made a significant improvement to the testing criteria and expectations of the ballistic resistance of doorsets and windows. The previous British Standard BS5051-1 covered the testing of ballistic resistance of glass only and did not provide the testing requirements for other elements of doors/windows such as the interconnectivity between the glass and the sub-frame, door/window gaps and the material used to construct the door or window frame profile.

The major changes in the introduction of the European Standard included:

- Test shots into the door/window frame material
- Test shots into the frame profile
- Test shots at corner joints
- Test shots between infill and frame profile
- Test shots into door/window gaps between the door/window sash and the outer door/window frame
- Test shots at hardware such as locks, cylinders, handles and hinges which may provide less resistance to attack
- Angle shots between the meeting points of the door/window and framework
- Threshold testing if the doorset is provided with a threshold

This list is an overview of the potential testing and should not be read as a comprehensive list of all the variations in testing requirements.

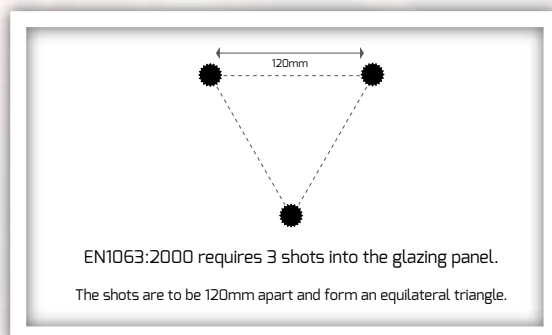


BS EN 1063

This standard specifies performance requirements and test methods for the classification of the bullet-resistance of glass (consisting of one or more layers of glass) and glass/plastic composites.

The standard applies to:

- Attack by handguns, rifles and shotguns
- Glazing in buildings, for interior or exterior use
- The glazing product only and assumes proper fixing



BALLISTIC TEST DATA COMPARISON

Doors & Windows	Glazing Only					TYPE OF WEAPON	BULLET CALLIBRE	BULLET TYPE*
BS EN1522/1523:1999 European Standard	BS5051:1998 Old UK Standard	BSEN1063:2000 European Standard	NIJ 0108-01 USA	UL752 USA	GOST R50963-96 RUSSIAN			
CLASS	CLASS	CLASS	CLASS	CLASS	CLASS			
FB1	N/A	BR1	I	N/A	N/A	RIFLE	0.22 LR	L/RN
FB2	G0	BR2	II	1	1	HAND GUN	9MM LUGER	FJ1) RN/SC
FB3	G1	BR3	II	2	N/A	HAND GUN	0.357 MAGNUM	FJ1) CB/SC
FB4	G2	BR4	III A	6+3	N/A	HAND GUN	0.357 MAGNUM	FJ1) CB/SC
							0.44 MAGNUM	FJ2) FN/SC
FB5	R1	BR5	N/A	7	3	RIFLE	5.56 X 45	FJ2) PB/SCP1
FB6	R2	BR6	III	N/A	4	RIFLE	5.56 X 45	FJ2) PB/SCP1
							7.62 X 51	FJ2) PB/SC
FB7	N/A	BR7	M14	8	5	RIFLE	7.62 X 51	FJ2) PB/HCI
N/A	S86	SG1	N/A	N/A	N/A	SHOTGUN	12/70	SOLID SLUG 1
FSG	N/A	SG2	N/A	SHOTGUN	N/A	SHOTGUN	12/70	SOLID SLUG 1

*BULLET CODES
 L:LEAD - CB:CONED LEAD - FJ1:FULL STEEL JACKET (PLATED) - FJ2:FULL COPPER ALLOY JACKET - FN:FLAT NOSE BULLET - HCI:STEEL HARD CORE, MASS 3.7G 0.1G, HARDNESS MORE THAN 63 HRC - PB:POINTED BULLET
 RN:ROUND NOSED BULLET - SC:SOFT CORE (LEAD) - SCP1:SOFT CORE (LEAD) WITH STEEL PENETRATOR (TYPE SS109)



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PRODUCTS

BS EN 1522/1523:1999 for tested doorsets

BS EN 1522/1523:1999 for tested doorsets

- Timber doorsets ballistically tested upto FB7
- Steel encapsulated doorsets tested upto FB7
- Multi-functional doorsets to provide:
 - Resistance to physical attack
 - Resistance to surreptitious attack
 - Bullet resistance
 - Blast resistance
 - Resistance to sound transmission
- Doorsets fire resistance tested to BS 476:Pt22
 - Single / Double timber bullet-resistant doorsets upto FD60
 - Single / Double steel bullet-resistant doorsets upto FD90
- Steel encapsulated doorsets fire resistance tested to BS EN 1634-1
 - Single bullet-resistant doorsets upto FD180
 - Double bullet-resistant doorsets upto FD240



BS EN 1522/1523:1999 for tested windows

BS EN 1522/1523:1999 for tested windows

- Fixed glazed windows tested upto FB6
- Uninsulated or insulated window systems
- Multi-functional windows to provide:
 - Resistance to physical attack
 - Bullet resistance
 - Blast resistance
- Currently developing and testing a new range of windows including:
 - Opening sash windows
 - Sliding sash windows

