

Resistance Classes

DIN EN 1522 + 1523 in accordance with

DIN EN 1063 (glazing)

DIN EN 1522 is the European standard for bullet resistance in windows, doors, shutters and blinds, which sets out 7 bullet resistant classes (FB) from FB1-FB7. DIN EN 1523 defines which test parameters have been applied to each FB class. DIN EN 1063 (glazing) is the European Committee security standard for measuring protective strength bullet-resistant glazing.

Class	Glass	Weapon	Calibre	Mass of bullets (g)	Test range (m)	Velocity (m/s)	Energy (j)
FB1	BR1	Rifle	.22 LR	2,6 ± 0,1	10 ± 0,5	360 ± 10	168
FB2	BR2	Handgun	9mm Luger	8 ± 0,1	5 ± 0,5	400 ± 10	689
FB3	BR3	Handgun	.357 Magnum +	10,2 ± 0,1	5 ± 0,5	430 ± 10	943
FB4	BR4	Handguns	.357 Magnum + .44 Rem. Magnum	10,2 ± 0,1 15,6 ± 0,1	5 ± 0,5 5 ± 0,5	430 ± 10	943
FB5	BR5	Rifle	5,56x45	4 ± 0,1	10 ± 0,5	950 ± 10	1,510
FB6	BR6	Rifles	5,56x45 + 7,62x51 (soft core)	4 ± 0,1 9,5 ± 0,1	10 ± 0,5 10 ± 0,5	950 ± 10 830 ± 10	3,289
FB7	BR7	Rifle	7,62x51 (hard core)	9,8 ± 0,1	10 ± 0,5	820 ± 10	3261

Test results should include S= splintering / NS = non- splintering

Hard core ammunition is twice that of soft core in penetration power