

Fire & Smoke Containment Systems

Manual & Bullet Attack Steel Framed Windows

Manufactured in a microfloat process with cutting-edge technology. A special float glass with outstanding properties provides the basis for a wide variety of safety applications. In addition to its excellent homogeneity, it displays impressive optical quality - even surpassing low iron glass - while remaining low in specific weight. Suitable for impact and manual attack resistant glass in accordance with DIN EN 356 and bullet resistance in accordance with DIN EN 1063.

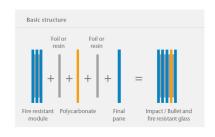
Manual attack resistant glasses are classified in different resistance classes depending on their properties The standard EN 1627 describes the necessary requirements for manual attack resistant windows, doors and shutters and classifies them in 5 different resistance classes:

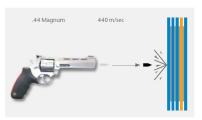
Resistance class	Glazing accord- ing to EN 356	Type of burglar and assumed break-in method
RC 2	P4A	Occasional burglar with simple lever tools
RC 3	P5A	Experienced burglar in a tar- geted attack on property using lever tools
RC 4		Experienced burglar in targeted attack on property regardless of noise level (lever-, strike- and drilling tools / cordless)
RC 5	P7B*	Experienced burglar in targe- ted attack on property with mechanical and electric tools
RC 6	P8B*	As in RC 5, but with more time and more powerful electric tools (angle grinder diameter Ø 230 mm)

^{*} Certification to EN 356 is not possible if the opening is larger than 400 mm x 250 mm. Therefore, additional testing to EN 1627 using the appropriate tool set will be required.

Resistance class	Glazing accord- ing to EN 1063	Weapon/Caliber
FB 1	BR 1	Rifle 22 LR
FB 2	BR 2	9 mm Parabellum
FB 3	BR 3	.357 Magnum
FB 4	BR 4	.357 Magnum + .44 Rem. Magnum
FB 5	BR 5	Rifle 5,56 x 45
FB 6	BR 6	Rifle 5,56 x 45 + Rifle 7,62 x 51
FB 7	BR 7	Rifle 7,62 x 51 (Hard steel core projectile)

The standard EN 1522 applies to all bullet resistant building elements and includes all components. This means this glass is tested and classified as complete structures in accordance with this standard.

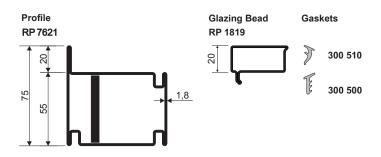




What is the difference between each glass type?

Protection of persons and property Fire protection in Manual attack accordance with EN resistance and 13501-2 + Manual bullet resistance in accordance attack resistance with EN 356 and and bullet resistance in accordance with FN 1063 EN 356 and EN 1063 ΕI

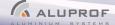
Framing Detail







AustralianFireControl.com.au







Fire & Smoke Containment Systems

Glastype	Article number	EN 356	EN 1063	Fire resistance	Fire resistance Thickness in mm	Weight in kgm
Manual attack resistance - Standard products P4A	ducts 2.4.2	P4A	1	E 60	10	23
P5A	3.13.10	P5A		}	7 = 7	23
P6B	2.2.2	P6B	,		15	27
P7B	2.9.3	P7B			18	33
P8B	1.9.3	P8B		1	18	32
Manual attack resistance - Special products (suitable for panic doors RC 2	(C 2 – RC 4)					
P8B P2	1.5.10	P8B P2			20	35
P8B PRC3	7.11.52)	P8B PRC3			34	58
P8B PRC4	7.12.0	P8B PRC4	1		50	82
Bullet resistance - Standard products						
BR2NS	1.2.3		BR2NS		17	32
BR2NS	1.4.5		BR2NS	EW 30/E 60	24	52
BR4NS	15.3.0		BR4NS		20	41
BR4NS	1.5.4	P8B	BR4NS		44	96
BR6NS	1.3.3	P8B	BR6NS		40	80
BR6NS	1.5.7	P8B	BR6NS	EI 30 /EW 60	63	137
PRC3 BR7NS	1.1.2	P8B	PRC3 BR7NS	EI 45 /EW 60	74	162
BR4NS	1.6.5		BR4NS		50	93
BR4NS	1.6.6		BR4NS	1	09	94
Fire protection & Bullet resistance - Stan	ndard products					
BR6NS 1.5.7	1.5.7	P8B	BR6NS	EI 30 /EW 60	63	137
BR7NS	1.1.2	P8B	BR7NS	EI 45 /EW 60	74	162







AustralianFireControl.com.au