

GHIRINGHELLI EMI SHIELDING PRODUCTS

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Bulletproof glass NATO STANAG 4569 AEP - 55 Level 2 and Level 3

The bulletproof glass is a transparent composite product.

It is a stratified object composed of various transparent sheets of glass alternating with layers of polycarbonate glued by means of a particular cycle of high pressure, vacuum and temperature in the autoclave.

The careful choice of materials, the provision of various thicknesses, the timing of different transparent layers and the production cycle are the prerequisite to obtaining the maximum protection that will withstand the most devastating impacts of penetrating projectiles of war described in the relevant NATO standards.

The STANAG bulletproof glass, transparent and monolithic withstand armor-piercing war mmx51mm caliber 7.62 AP (WC core) with hard tungsten core.

The legislation STANAG 4569 AEP 55 Level 3 or Level 2 requires that the specimen of glass can withstand the impact of three 7.62 caliber bullets mmx51mm AP (WC Core) shot on target from a distance of 10m. The three bullets have hit at the vertices of an equilateral triangle of 120mm from the side.

The certification requires three identical specimens withstand the full test.

To achieve certification must also have the characteristic to avoid any splinter: no splinters of glass must be disconnected from the rear (the defense).

	KE threat							
LEVEL	AMMUNITIONS	AZIMUTH	ELEV.	BULLET WEIGHT g	V _{proof} * (m/s)	ENERGY JOULE	SHOOT NUMBER	DI STANCE m
5	25 mm x 137 APDS-T PMB 073	± 30°	0°	121,5	1258	96.141	1	
4	14,5 mm x 114 API/B32	0-360°	0°	64	911	26.557	1	
3	7,62 mm x 51 AP (WC core)	0-360°	0° -30°	8,4	930	3.633	- 3	10
	7,62 mm x 54R B32 API				854			
2	7,62 mm x 39 API BZ	0–360°	0° -30°	7,77	695	1.877	3	10
1	7,62 mm x 51 NATO ball	0–360°	0° -30°	9,65	833	3.348	3	10
	5,56mm x 45 NATO SS109				900			
	5,56 mm x 45 M193				937			

<u>STANDARD: NATO AEP-55 STANAG 4569</u> Test conditions and projectiles summery for kinetic energy

 V_{proof}^{*} = Figures are mean values: tolerance of striking velocity for individual shot is ± 20 m/s

GERMAN STANDARD: DIN52290 CLASS WEAPON CALIBRE AMMUNITION RANGE C1 SIG 9 mm x 19 VMR/wk 3 m C2 S & W .357 magnum VMKS/wk 3 m C3 COLT .44 magnum VMF/wk 3 m C4 NATO rifle 7.62 mm x 51 VMS/wk 10 m C5 NATO rifle AP 7.62 mm x 51 VMS/hk 25 m

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In all cases, details and values should be verified by the customer