

EN 1063 & STANAG 4569 AEP55 & NIJ LEVEL

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STANDARD	PRODUCTION TECHNIQUE	WEAPON (Example)	CARTRIDGE	CALIBRE	AMMUNITION AND PROJECTILE			TEST CONDITIONS		SHOTS	Test Specimen Size	Glass Thickness	Areal m2 weight,	Temp(…C°) ± .. C°	TEST REPORT CES or EXTERNAL TEST
					Type	Mass [g]	Manufacturer Type	Shot Distance [m]	Bullet Velocity [m/s]						
EN 1063 BR2 NS	POLYCARBONATE SHEET REINFORCED			9 mm Luger (*)	FMJ / RN / SC, tinned	8.0 ± 0.1	DAG, DM41	5 ± 0.5	400 ± 10	3	500 x 500 mm²	15 mm ± 1mm	29,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
	SAFETY FILM REINFORCED											22 mm ± 1mm	53,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
EN 1063 BR3 NS	POLYCARBONATE SHEET REINFORCED			357 Magnum	FMJ / CB / SC	10.2 ± 0.1	Geco	5 ± 0.5	430 ± 10	3	500 x 500 mm²	17 mm ± 1mm	39,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
	SAFETY FILM REINFORCED											24 mm ± 1mm	58,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
EN 1063 BR4 NS	POLYCARBONATE SHEET REINFORCED			44 Magnum	FMJ / CB / SC	10.2 ± 0.1	Geco	5 ± 0.5	440 ± 10	3	500 x 500 mm²	21 mm ± 1mm	43,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
	SAFETY FILM REINFORCED											32 mm ± 1mm	76,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
EN 1063 BR5 NS	POLYCARBONATE SHEET REINFORCED			.223 Remington (*)	FMJ/PB/SMC	4.0 ± 0.1	MEN, SS109 5,56 x 45 Nato 7,62 x 39 MSC	10 ± 0.5	950 ± 10	3	500 x 500 mm²	32 mm ± 1mm	70,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
	SAFETY FILM REINFORCED											38 mm ± 1mm	91,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
EN 1063 BR6 NS	POLYCARBONATE SHEET REINFORCED			.308 Win.	FMJ/PB/SMC	9.55 ± 0.1	MEN, DM1111 7,62 x 51 M80	10 ± 0.5	830 ± 10	3	500 x 500 mm²	41 mm ± 1mm	90,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR. AITEK - SPAIN
	SAFETY FILM REINFORCED											57 mm ± 1mm	140,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR. AITEK - SPAIN
EN 1063 BR7 NS	POLYCARBONATE SHEET REINFORCED			.308 Win.	FMJ/PB/HC	9.7 ± 0.2 core 4,0 ± 0.2 Hardness 62 ± 2 HPC	MEN, CBC, FNB, P80 7,62 x 51 AP	10 ± 0.5	820 ± 10	3	500 x 500 mm²	63 mm ± 1mm	150,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
	POLYCARBONATE SHEET REINFORCED											77 mm ± 1mm	183,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR. TNO LBR.
	SAFETY FILM REINFORCED											82 mm ± 1mm	203,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR. TNO LBR.
STANAG 4569 LEVEL I	POLYCARBONATE SHEET REINFORCED				FMJ/PB/SMC	9.65 ± 0.1 4.00 ± 0.1 3.56 ± 0.1	7,62 x 51 M80 5,56 x 45 NATO SS109 5,56 x 45 M193	10 ± 0.5	833 ± 20 900 ± 20 937 ± 20	3	500 x 500 mm²	42 mm ± 1mm	95,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
												48 mm ± 1mm	108,00 kg ± 1,00kg	(-32 C°) ± 2 C° (+49 C°) ± 2 C° (+55 C°) ± 2 C°	CES - LBR.
STANAG 4569 LEVEL II	POLYCARBONATE SHEET REINFORCED					7.77 ± 0.1	7.62mm x 39 API BZ	10 ± 0.5	695 ± 20	3 or 5	500 x 500 mm²	55 mm ± 1mm	126,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.
												58 mm ± 1mm	132,00 kg ± 1,00kg	(20 C°) ± 2 C° (-32 C°) ± 2 C° (+55 C°) ± 2 C°	CES - LBR.
												66 mm ± 1mm	150,00 kg ± 1,00kg	(-32 C°) ± 2 C° (+55 C°) ± 2 C°	CES - LBR.
												80 mm ± 2mm Z PATEN	192,00 kg ± 1,00kg	(-32 C°) ± 2 C° (+55 C°) ± 2 C°	CES - LBR.
STANAG 4569 LEVEL III AEP-55 Vol I	POLYCARBONATE SHEET REINFORCED					8.4 ± 0.1 10.04 ± 0.1	7.62mm x 51 AP (WC core) 7.62 x 54R B32 API	10 ± 0.5	930 ± 20 854 ± 20	3 or 5	500 x 500 mm²	86 mm ± 2mm	200,00 kg ± 1,00kg	(20 C°) ± 2 C° (-32 C°) ± 2 C°	CES - LBR.
												96 mm ± 2mm	223,00 kg ± 1,00kg	(20 C°) ± 2 C° (-32 C°) ± 2 C°	CES - LBR.
STANAG 4569 LEVEL IV	POLYCARBONATE SHEET REINFORCED					63,40 ± 0.5	14,5 x 114 API/B32	10 ± 0.5	911 ± 20	1	500 x 500 mm²	133 mm ± 2mm	315,00 kg ± 1,00kg	(20 C°) ± 2 C° (-32 C°) ± 2 C° (+55 C°) ± 2 C°	CES - LBR.
NIJ LEVEL III +	POLYCARBONATE SHEET REINFORCED			.308 Win.	FMJ/PB/SMC	9.7 ± 0.1	7,62 x 51 M80 7.62mm x 39 MSC	15 ± 0.5	838 ± 15	5	500 x 500 mm²	42 mm ± 1mm	95,00 kg ± 1,00kg	(20 C°) ± 2 C°	CES - LBR.