



# CRYSTAL ARMOR™

TRANSPARENT ARMOR ACCORDING STANAG 4569/AEP55 2589



CRYSTAL ARMOR™ is an excellent, high transparent armored glass/polycarbonate laminate and has been successfully tested in major test institutes and proven used in battlefields.

The glasses can be eventually supplied in frames, with heating and several degrees of light transmission, even up to 90%.

For each class, CRYSTAL ARMOR™ can be supplied in advanced materials, which allow a reduction of approx. 10% in weight.

An EMI shielding can be integrated without any loss of light transmission.



CLASS	REF. NUMBER	TEST TEMP.	THICKNESS	KG/SQ.M.	RIFLE/ AMM.	SPEED M/S	ART. THREAT	SPEED M/S
LEVEL 1	ST01-1040 SM	-19 /+44 C	40 MM	90	7.62X51 BALL	833 +/-20	FSP 12.7 MM	310 +/-20
LEVEL 1	ST01-1047 SM	-32/ +49 C	47 MM	107	7.62X51 BALL	833 +/-20	FSP 20.0 MM	520 +/-20
LEVEL 1	ST01-1147 AM	-32/+49 C	47 MM	95	7.62X51 BALL	833 +/-20	FSP 20.0 MM	520 +/-20
LEVEL 2	ST02-2064 SM	-32/+49 C	64 MM	148	7.62X39 AP	695 +/-20	FSP 20.0 MM	630 +/-20
LEVEL 2	ST02-2164 AM	-32/+49 C	64 MM	131	7.62X39 AP	695 +/-20	FSP 20.0 MM	630 +/-20
LEVEL 3	ST03-20A SM	-32/+49 C	98 MM	230	7.62X51 WC	930 +/-20	FSP 20.0 MM	770 +/-20
LEVEL 3	ST03-3189 AM	-32/+49 C	90 MM	189	7.62X51 WC	930 +/-20	FSP 20.0 MM	770 +/-20

**SM: STANDARD MATERIALS**  
**AM: ADVANCED MATERIALS**



**Crystal Company B.V.**

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# CRYSTAL ARMOR™

TRANSPARENT ARMOR ACCORDING EN1063



CRYSTAL ARMOR™ is an excellent, high transparent armored glass/polycarbonate laminate and has been successfully tested in major test institutes and is used in several applications, such as passenger cars, SUV's, cash-in-transit vehicles, counters and other objects. The glasses can be eventually supplied with heating and several degrees of light transmission, even up to 80%. An EMI shielding can be integrated without any loss of light transmission.

## CRYSTAL ARMOR™

bullet-resistant glazing

### Crystal Armor★® EN 1063 Glass - Polycarbonate laminates

CLASS	TYPE NO.	THICKNESS	KG/SQ.M.	CALIBRE	AMMUNITION
BR1 - NS	10 - 20221	14 MM	29	●22 Rifle	RN/FJ
BR2 - NS	20 - 20221	16 MM	33	9 mm Para	RN/FJ
BR3 - NS	30 - 20221	18 MM	38	●357 Magnum	FN/FJ
BR4 - NS	40 - 30412	20 MM	42	●44 Magnum	FN/FJ
BR5 - NS	50 - 50821	33 MM	73	5.56 x 45	SC/FJ
BR6 - NS	60 - 50710	37.5 MM	84	7.62 x 51	SC/FJ
BR7 - NS	70 - 70875	68 MM	147	7.62 x 51	AP
SG1 - NS	01 - 20010	24 MM	48	shotgun	SLUG 1x
SG2 - NS	02 - 20050	30 MM	68	shotgun	SLUG 3x

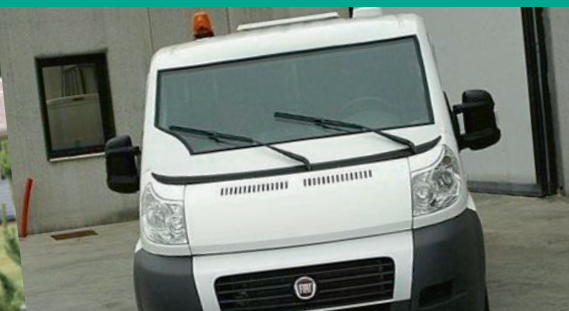
RN/FJ : round nose / full jacket  
 FN/FJ : flat nose / full jacket  
 SC/FJ : soft core / full jacket  
 AP : armour piercing

## CRYSTAL ARMOR™

bullet-resistant glazing

### Crystal Armor★® Kalashnikov 7.62 x 39 Glass - Polycarbonate laminates

TYPE NO.	THICKNESS	KG/SQ.M.	AMMUNITION
55 - 20025	33 MM	73	soft steel core
55 - 20055	55 MM	120	armour piercing



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