

# TECHNICAL DATASHEET

## DIAMOND BL X-TREME



### DESCRIPTION



**DIAMOND BL X-TREME** has been specifically designed to provide maximum ballistic protection (FB6 - NS) in your buildings according to EN 1522 Standard. At the same time, this roller shutter will protect you against thieves offering a certified CLASS 6 (RC 6) according to EN 1627 burglar proof European Standard.

The best protection for blocking all accesses to your building. It can also be connected to other existing security systems.

Your peace of mind is guaranteed with our burglar and bullet proof certified solutions.

### CERTIFICATIONS



#### RC6 BURGLAR-PROOF

Burglar resistance class RC6 according to EN 1627, EN 1628 and EN 1630. Test carried out in standard measurement of 1940 mm x 2460 mm.



#### FB6-NS BULLET PROOF

Perforation resistance class FB6-S according to EN 1522.



#### C5 WIND RESISTANCE

Wind resistance class C5 according to EN 12424.



#### STANDARD REGULATIONS

According to standard regulation EN 13241, which guarantees the safety of people, vehicles and goods.

### BALLISTIC DETAILS

CLASS	TYPE OF GUN	CALIBER	BULLET	
			TYPE	MASS (G)
✓ FB1		22 LR	L/RN	2.6 ± 0.1
✓ FB2		9mm Luger	FJ <sup>1</sup> RN/SC	8.0 ± 0.1
✓ FB3		357 Mag.	FJ <sup>1</sup> CB/SC	10.2 ± 0.1
✓ FB4		357 Mag. 44 Rem. Mag.	FJ <sup>1</sup> CB/SC FJ <sup>2</sup> FN/SC	10.2 ± 0.1 15.6 ± 0.1
✓ FB5		5.56 x 45	FJ <sup>2</sup> PB/SCP1	4.0 ± 0.1
✓ FB6		5.56 x 45 7.62 x 51	FJ <sup>2</sup> PB/SCP1 FJ <sup>1</sup> PB/SC	4.0 ± 0.1 9.5 ± 0.1
● FB7		7.62 x 51	FJ <sup>2</sup> PB/HCI	9.8 ± 0.1







TYPES SPECIFICATION	
<b>L</b>	Lead bullet
<b>CB</b>	Cast bullet
<b>FJ</b>	Full-jacketed bullet
<b>FN</b>	Flat nose bullet
<b>HCI</b>	Hard Cast bullet, mass (3,7 ± 0,1 g), hardness over 63 HRC
<b>PB</b>	Pointed nose bullet
<b>RN</b>	Round nose bullet
<b>SC</b>	Soft core bullet (Lead)
<b>SCP1</b>	Soft-centre projectile (Lead) with steel reinforcement (Type SS109)
<b>FJ<sup>1</sup></b>	Full-jacketed bullet, steel
<b>FJ<sup>2</sup></b>	Full-jacketed bullet, copper

### DESCRIPTIVE MEMORANDUM

#### DIAMOND BL X-TREME - FB6-NS EN 1522 – BULLET PROOF CERTIFIED & RC 6 EN 1627 – BURGLAR-PROOF CERTIFIED.

Extruded aluminium roller shutter, made of high strength double wall aluminium straight slats (alloy: aluminium, silicon, magnesium, titanium), measurements: 100x30 mm. with bullet proof protection. They are fixed sideways, with stainless steel stoppers, reinforced double skinned bottom slat 100x30 mm polyamide nylons to avoid friction. 80x60 mm GUIDES. Reinforced shaft. Motor and electronic panel will be adapted in each case. Installation will be undertaken by COLLBAIX technical staff after a technical study. Installation will be undertaken by COLLBAIX technical staff or authorized point of sale.

## BURGLAR-PROOF DETAILS

CLASS	TOOL SET	RESISTANCE TIME	MAXIMUM TEST TIME
✓ RC1		-	-
✓ RC2		3 min	15 min
✓ RC3		5 min	20 min
✓ RC4		10 min	30 min
✓ RC5		15 min	40 min
✓ RC6		20 min	50 min

**NOTE:** The total maximum time of the test is the sum of the resistance time, the rest time, the change tool time and the observation time.

## TECHNICAL DATA SHEET

<b>PROFILES</b>	High strength extruded aluminium, alloy 6063 T5 (aluminium, magnesium, silicon, titanium). Double wall slats of 100x30mm
<b>FINISH</b>	Gloss silver anodized
<b>GUIDES</b>	High strength extruded aluminium reinforced with ballistic material 80x60 mm, include polyamide nylons to avoid friction.
<b>MEASUREMENTS / WEIGHT</b>	7.000 mm x 5.500 mm guides included (maximum recommended). Weight 81,5 Kg/sqm (approx.)
<b>MOTOR / SHAFT</b>	Direct drive or tubular type single-phase or three-phase electric motors and torque calculated for the specific dimensions of each project. Electric powers demanded from 100 to 4,000 W (peak power). Voltages 100 127 V / 220 240 V / 380 400 V / 480 600 V (50/60 Hz).
<b>CERTIFICATIONS</b>	BURGLAR-PROOF CLASS RC6 (EN 1627) + BULLET PROOF CLASS FB6-NS (EN 1522) + WIND RESISTANCE CLASS 5 (700 Pa, EN 12424)
<b>AUTOMATISMS</b>	Automatic electronic equipment 100 127 V / 220 240 V / 380 400 V / 480 600 V (50/60 Hz)
<b>THERMAL VALUES</b>	$U = 5,29 \text{ W} / (\text{m}^2 \cdot \text{K})$ $R_t = 0,189 (\text{m}^2 \cdot \text{K}) / \text{W}$