

DESCRIPTION



DIAMOND BL has been specifically designed to provide high ballistic protection in your buildings according to the European Standard EN 1522.

Using slats of 50 mm height, this model can be installed in tight spaces offering bulletproof FB4-S certified protection.

Furthermore, this roller shutter will protect you against thieves offering a certified CLASS 5 (RC 5) according to EN 1627 burglarproof European standard.

Your piece of mind is guaranteed with Collbaix burglar and bullet proof certified solutions.

CERTIFICATIONS



RC5 BURGLAR-PROOF

Burglar resistance class RC5 according to EN 1627, EN 1628 and EN 1630. Test carried out in standard measurement of 1940 mm x 2460 mm.



FB4-S BULLET PROOF

Perforation resistance class FB4-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 ¹ RN/SC	8.0 ± 0.1
✓ FB3		357 Mag. 	FJ ¹ CB/SC	10.2 ± 0.1
✓ FB4		357 Mag. 	FJ ¹ CB/SC	10.2 ± 0.1
		44 Rem. Mag. 	FJ ² FN/SC	15.6 ± 0.1
● FB5		5.56 x 45 	FJ ² PB/SCP1	4.0 ± 0.1
		5.56 x 45 	FJ ² PB/SCP1	4.0 ± 0.1
● FB6		7.62 x 51 	FJ ¹ PB/SC	9.5 ± 0.1
● FB7		7.62 x 51 	FJ ² PB/HCI	9.8 ± 0.1


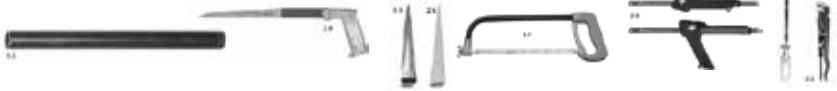




TYPES SPECIFICATION	
L	Lead bullet
CB	Cast bullet
FJ	Full-jacketed bullet
FN	Flat nose bullet
HCI	Hard Cast bullet, mass (3,7 ± 0,1 g), hardness over 63 HRC
PB	Pointed nose bullet
RN	Round nose bullet
SC	Soft core bullet (Lead)
SCP1	Soft-centre projectile (Lead) with steel reinforcement (Type SS109)
FJ¹	Full-jacketed bullet, steel
FJ²	Full-jacketed bullet, copper

DESCRIPTIVE MEMORANDUM

DIAMOND BL - FB4 S BULLETPROOF CERTIFIED EN 1522 – CLASS 5 BURGLAR PROOF CERTIFIED EN 1627.

Roller shutter made of high resistance extruded aluminium. Special alloy (Al, Si, Mg y Titanium). Straight double-wall slat of 50X15X1,5mm. Anti-displacement patented system with stainless steel stoppers. Reinforced double-wall bottom slat of 100X30; EPDM Sealing gasket and armored bearings; 100X40 guides with polyamide nylons to avoid friction. EN 13241-1. 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

PROFILES	High strength extruded aluminium, alloy 6063 T5 (aluminium, magnesium, silicon, titanium). Double wall slats of 50x15mm
FINISH	Gloss silver anodized
GUIDES	High strength extruded aluminium reinforced with ballistic material 100x40 mm, include polyamide nylons to avoid friction.
MEASUREMENTS / WEIGHT	7.000 mm x 5.500 mm guides included (maximum recommended). Weight 46,7 Kg/m ² (approx.)
MOTOR / SHAFT	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).
CERTIFICATIONS	BURGLAR-PROOF CLASS RC5 (EN 1627) + BULLET PROOF CLASS FB4 S (EN 1522) + WIND RESISTANCE CLASS 5 (700 Pa, EN 12424)
AUTOMATISMS	Automatic electronic equipment 100 127 V / 220 240 V / 380 400 V / 480 600 V (50/60 Hz)
THERMAL VALUES	$U = 5,29 \text{ W} / (\text{m}^2 \cdot \text{K})$ $R_t = 0,189 (\text{m}^2 \cdot \text{K}) / \text{W}$