

DESCRIPTION



The **EPSILON** model is specifically designed for industrial establishments that require large dimensions for vehicle and machinery access. It is elegant, functional, and secure. It can include a gravity drop system for fire safety, and thermal and acoustic insulation to improve energy efficiency and comfort.

Additionally, it has bulletproof certifications FB1, FB2 (EN 1522), class 1 part 1 and 2 (NIJ 0108-01), level 1 (UL 752), and anti-burglary CLASE RC2-RC4 (EN 1627, EN 1628, and EN 1630), ensuring maximum protection against fires and theft. Wind resistance class C5 (maximum level) in compliance with EN 12424. Fire resistance levels E30, E60, E90, E120, E180, E240 in compliance with EN 1634.

CERTIFICATIONS



MAXIMUM FIRE RESISTANCE

It can achieve fire resistance levels E30, E60, E90, E120, E180, E240 in compliance with EN 1634.



WIND RESISTANCE

Wind resistance class C5 (maximum level) in compliance with EN 12424.



FB1, FB2 BULLETPROOF + NIJ Class 1(part 1, 2) + UL Class 1

Perforation resistance level FB1 and FB2 according to EN 1522, class 1 (part 1 y 2) according to NIJ 0108.01, and class 1 according to UL 752.



ANTI-BURGLARY RESISTANCE RC2 - RC4

Burglary resistance level RC2, RC3, RC4 in compliance with EN 1627, EN 1628, and EN 1630. Maximum Dimensions: 12,000 mm L x 8,000 mm H.

ANTI-BURGLARY DETAILS ACCORDING TO EN 1627 STANDARD



RC4
10 - 30 min
✓



RC5
15 - 40 min



RC6
20 - 50 min



















TECHNICAL REPORT

Security Roll-Up Shutter **Mod. EPSILON BY CBX Security**. Constructed using high-strength, double-walled, galvanized steel alloy profiles measuring 95 x 22 mm. Equipped with high-density side plugs and double-shielded bearings, reinforced double-walled lower base (95 x 22 mm) with galvanized metal angle reinforcement (60 x 60), and structural lateral guides (70 x 70) with anti-friction rubber seals, reinforced grips every 1000 mm.





















Bulletproof certification: FB1 and FB2 (EN 1522) + Class I (Part1 and 2) to (NIJ 0108-01), Class 1 (UL 752) + anti-burglary certification RC2-RC4 (EN 1627, EN 1628, EN 1630), ensuring maximum fire and theft protection. Wind resistance class C5 (maximum level) in compliance with EN 12424. Fire resistance levels E30, E60, E90, E120, E180, E240 in compliance with EN 1634.

BULLET PROOF DETAILS ACCORDING TO STANDARD EN 1522

CLASS	WEAPON	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.  44 Rem. Mag. 	FJ ¹ CB/SC FJ ² FN/SC	10.2 ± 0.1 15.6 ± 0.1
● FB5		5.56 x 45 	FJ ² PB/SCP1	4.0 ± 0.1
● FB6		5.56 x 45  7.62 x 51 	FJ ² PB/SCP1 FJ ¹ PB/SC	4.0 ± 0.1 9.5 ± 0.1
● FB7		7.62 x 51 	FJ ² PB/HC1	9.8 ± 0.1





















TYPES SPECIFICATION	
L	Lead bulle
CB	Cast bullet
FJ	Full-jacketed bullet
FN	Flat nose bullet
HC1	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

BULLET PROOF DETAILS ACCORDING TO STANDARD NIJ 0108.01

CLASS	WEAPON	CALIBER	BULLET	
			VELOCITY(M/S)	SHOTS
✓ I		22 LRHV LEAD 	320 ± 12	3
✓ I		38 Special RN Lead 	259 ± 15	3
● II-A		357 Magnum JSP 	381 ± 15	3
● II-A		9 mm FMJ 	332 ± 12	1
● II		357 Magnum JSP 	425 ± 15	1
● II		9 mm FMJ 	358 ± 12	5
● III-A		44 Magnum Lead SWC GAS Checked 	426 ± 15	5
● III-A		9 mm FMJ 	426 ± 15	5
● III		7.62 FMJ 	838 ± 15	1
● IV		30-06 AP 	868 ± 15	1

TYPES SPECIFICATION	
FMJ	Full metal jacketed
JSP	Jacketed soft point
LWC	Semi wadcutter gas
GC	checked
LSP	Lead core soft point
LC	Leac core.
LRHV	Long Rifle High Velocity
RN	Round Nose
AP	Armour Piercing
SWC	Semi Wadcutter

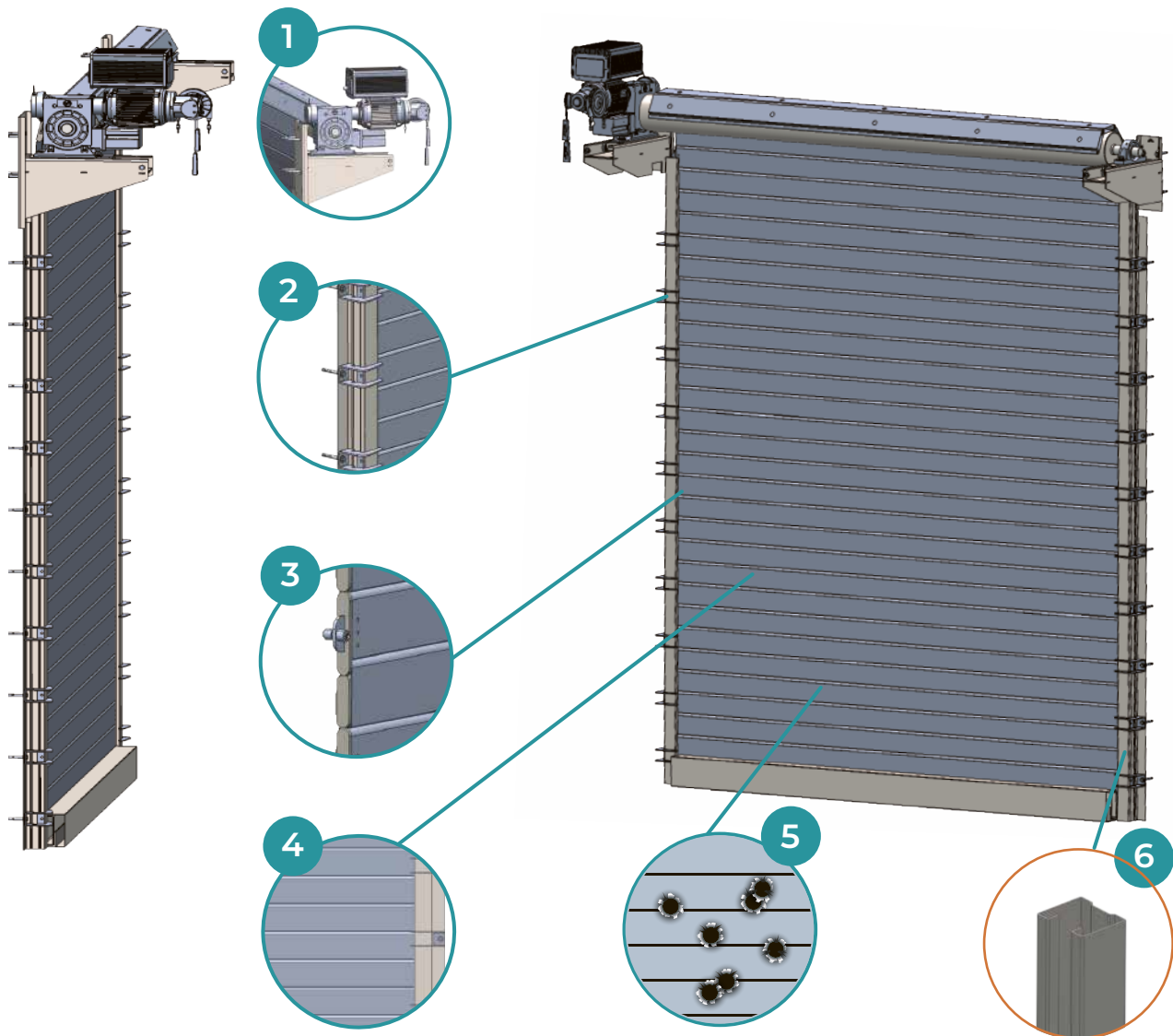
BULLET PROOF DETAILS ACCORDING TO STANDARD UL 752

CLASS	WEAPON	CALIBER	BULLET	
			TYPE	SHOTS
✓ 1		9 mm x 19 	FMJ	3
● 2		357 Magnum 	JSP	3
● 3		44 Magnum 	LSW GC	3
● 4		30.06 	LSP	1
● 5		7.2x51 	LC/FMJ Military ball	1
● 6		9 mm x19 	FMJ LC	5
● 7		5.56x 45 	FMJ LC	5
● 8		7.62x51 	LC/FMJ Military ball	5
● 9		30.06 	SC FMJ (APM2)	1
● 10		M2 	FMJ Military ball	1

TYPES SPECIFICATION	
FMJ	Full metal jacketed
JSP	Jacketed soft point
LWC	Semi wadcutter gas
GC	checked
LSP	Lead core soft point
LC	Leac core.
LRHV	Long Rifle High Velocity
RN	Round Nose
AP	Armour Piercing
SWC	Semi Wadcutter

TECHNICAL SCHEME

Innovation over 50 years has made us the market leader. We have developed dozens of international patents exclusive to **CBX**. We manufacture with the highest quality materials to offer the best guarantee to our clients.



1 MOTORIZATION

We offer high-capacity and quality motors, up to 5,000 Nm of power, suitable for any international voltage.

2 GUIDE SUPPORTS

Guide fastening system using galvanized steel brackets for bolted and welded anchoring, placed approximately every 50 centimeters, allowing the guide to withstand impacts or high loads without deformation.

3 WHEEL PLUG SYSTEM

Plug with a windproof system made of two bearings providing extra resistance against internal and external forces, preventing the fabric from coming out of the guide and attempts of intrusion with tools.

4 GALVANIZED STEEL SLAT

Slats formed with double-walled steel with galvanized treatment providing corrosion resistance. The design of the double-walled steel slat allows the manufacturing of doors up to 12 meters wide.

5 BULLET AND BURGLARY RESISTANCE SYSTEM

Our exclusive profiles withstand projectiles under FB1, FB2 EN 1522, NIJ class 1 (Part 1 and 2), UL class 1. Anti-burglary resistance class RC2, RC3, RC4.

6 STRUCTURAL STEEL GUIDE

Guide made of 2 mm thick galvanized steel sheet, specially designed to accommodate anti-burglary rollers and a windproof system.

EPSILON MODEL CLASSIFICATION

	ANTI-BURGLARY	BULLETPROOF	FIRE RESISTANCE	WIND RESISTANCE
EPSILON				Class 5
EPSILON RC	RC2 RC3 RC4			Class 5
EPSILON BL		FB1 FB2(NIJ 1 part 1, 2 + UL 1)		Class 5
EPSILON FIRE			E30, E60, E90, E120, E180, E240	Class 5
EPSOLON MAX	RC2 RC3 RC4	FB1 FB2(NIJ 1 part 1, 2 + UL 1)	E30, E60, E90, E120, E180, E240	Class 5

TECHNICAL SPECIFICATIONS - ROLL-UP SHUTTER WITH LATERAL MOTOR

SUPPORT M - AXIS 159

EPSILON:

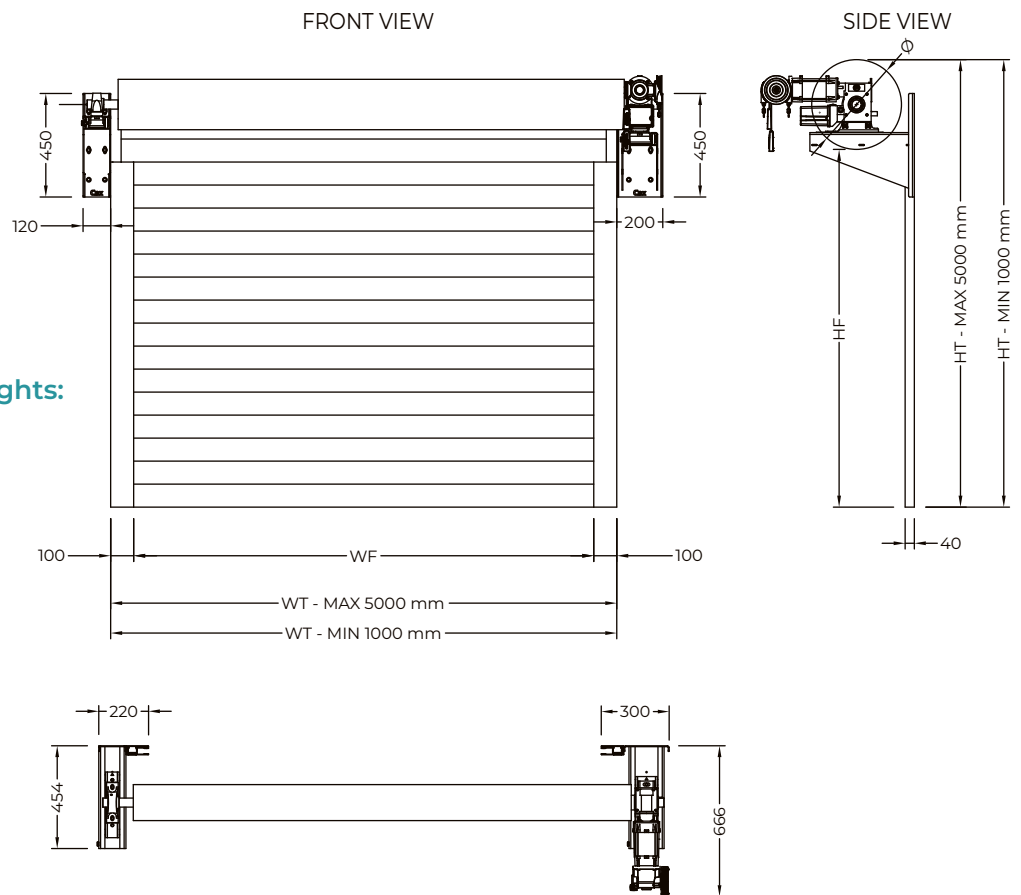
Width 1-6 m - 20 m²
Width 6-7 m - 14 m²

EPSILON RC4:

Width 1-6 m - 16 m²
Width 6-7 m - 10 m²

Diameter for Different Heights:

HT < 2500 - Ø=365 mm
HT < 4000 - Ø=435 mm
HT < 6000 - Ø=510 mm
HT < 7000 - Ø=540 mm



HT = TOTAL HEIGHT
WT = TOTAL WIDTH

HF = CLEAR HEIGHT
WF = CLEAR WIDTH

TECHNICAL SPECIFICATIONS - ROLL-UP SHUTTER WITH LATERAL MOTOR

SUPPORT L - AXIS 159

EPSILON:

Width 3-4.5 m - 32 m²
 Width 4.5-5.5 m - 25 m²

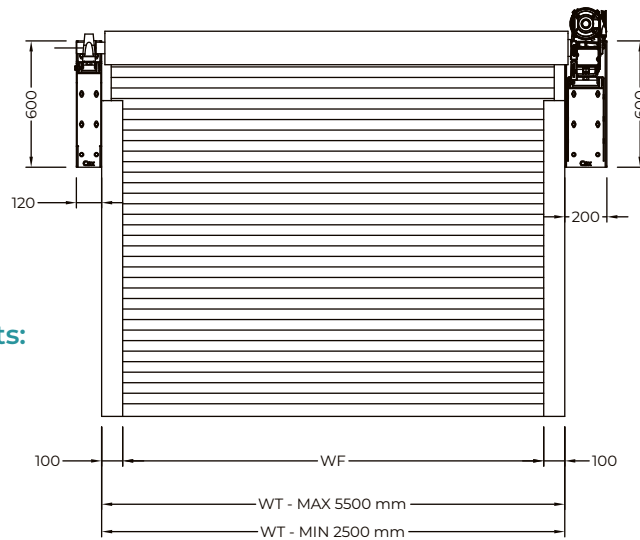
EPSILON RC4:

Width 2.5-4.5 m - 30 m²
 Width 4.5-5.5 m - 18 m²

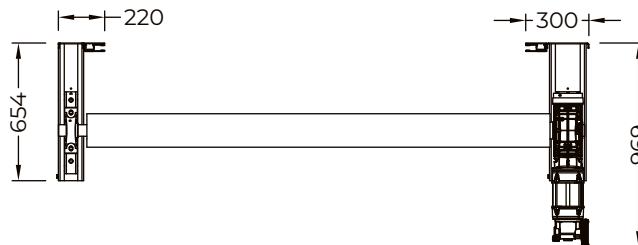
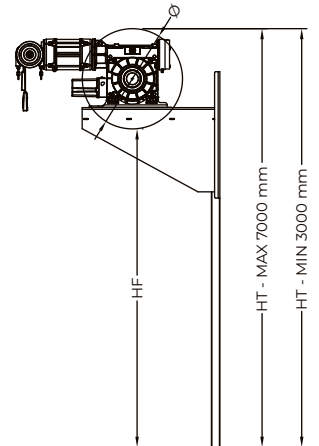
Diameter for Different Heights:

HT < 2500 - Ø=365 mm
 HT < 4000 - Ø=435 mm
 HT < 6000 - Ø=510 mm
 HT < 7000 - Ø=540 mm

FRONT VIEW



SIDE VIEW



SUPPORT L - AXIS 219

EPSILON:

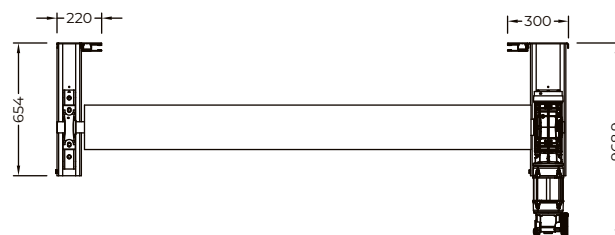
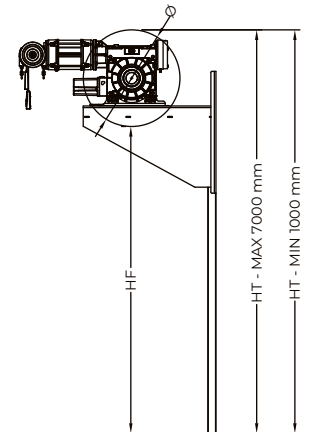
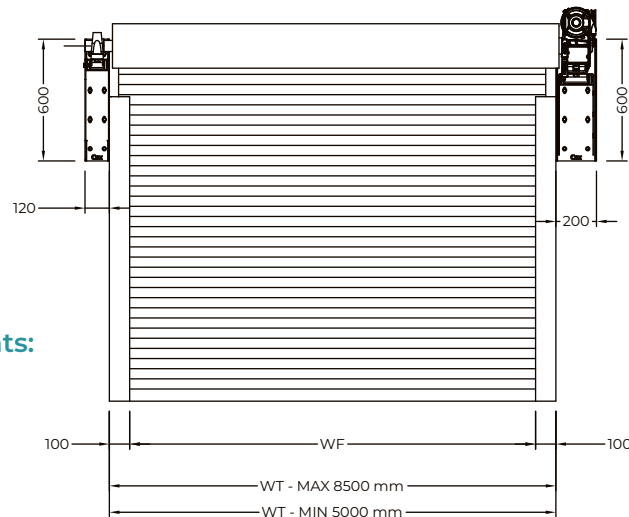
Width 5-8 m - 40 m²
 Width 8-8.5 m - 33 m²

EPSILON RC4:

Width 5-8 m - 34 m²
 Width 8-8.5 m - 25 m²

Diameter for Different Heights:

HT < 3000 - Ø=410 mm
 HT < 5000 - Ø=480 mm
 HT < 7000 - Ø=560 mm



CARACTERÍSTICAS TÉCNICAS - PUERTA CON MOTOR LATERAL

SUPPORT XL - AXIS 219

EPSILON:

Width 5-8 m - 40 m²
Width 8-8.5 m - 33 m²

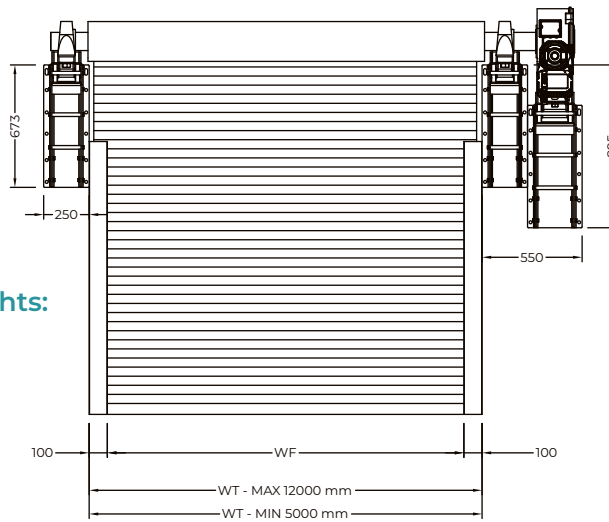
EPSILON RC4:

Width 5-8 m - 34 m²
Width 8-8.5 m - 25 m²

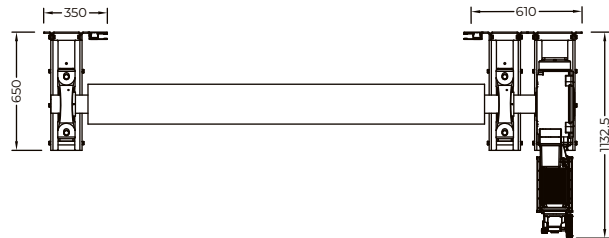
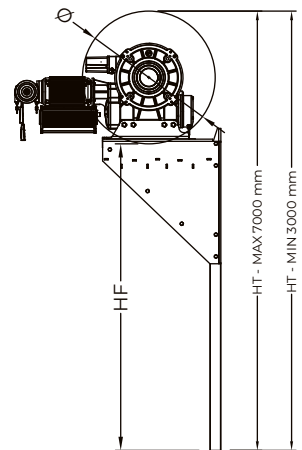
Diameter for Different Heights:

HT < 3000 - Ø=410 mm
HT < 5000 - Ø=480 mm
HT < 7000 - Ø=560 mm

FRONT VIEW



SIDE VIEW



TECHNICAL DATA

TISSUE	Double-walled steel profile, galvanized, made of two galvanized steel sheets, 1 mm thick outer sheet and 1 mm thick inner sheet. Includes a windproof hook at each end of the profile, improving wind resistance and allowing for great length.
FINISHING	Standard Model - Galvanized. Optionally, RAL color can be used for the exterior and interior sheets.
GUIDES	DOUBLE G GUIDE RAILS - Storm guide rails in 2 mm galvanised steel with special anti-friction seal and hurricane resistance system. Intumescent gasket to seal in case of fire.
DIMENSIONS / WEIGHT	12.000 mm x 8.000 mm (max. recommended including guides). Mass 16,0 kg/m ² (approx.)* Mod. Epsilon RC4 - mass 36 kg/m ²
AXIS AND MOTOR	Electric motors single-phase or three-phase, lateral and tubular motors, calculated for the specific dimensions of each project. Electrical power requirements range from 100 to 4,000 W (peak power).
AUTOMATISMS	Electronic automatic equipment 220 / 400 V (50 / 60 HZ) and low voltage manoeuvre 12 V.
WIND RESISTANCE	Class 5 (1.470 Pa).
GRAVITY DROP	Optionally, a motor with gravity drop can be installed.
FIRE RESISTANCE	E30, E60, E90, E120, E180 or E240 minutes of protection against fire (EN 1634)
BURGLARY RESISTANCE	RC2, RC3, RC4 according to EN 1627, EN 1628, EN1630
BULLET RESISTANCE	FB1, FB2 according to EN 1522 + Class 1 Part 1 and 2 according to NIJ 0108.01 + Class 1 according to UL 752
OPENING SPEED	0,2 m/s (approx.).
THERMAL VALUES	U = 4,42 W / m ² K - Rt = 0,18 m ² K / W.

