PRODUCT NOTIFICATION
EFA-SST® SECURE (306)

MAXIMUM SECURITY MEETS MAXIMUM SPEED

TOP PROTECTION FOR YOUR ASSETS

Burglary, robbery and vandalism – unfortunately, these crimes are no longer rare occurrences in the modern era. Especially burglaries and robberies are usually well organized and pre-planned, conducted by networks of criminals which have the necessary means to forcibly gain entry to property and steal valuables and goods.

Therefore, there is an increased demand for security devices and burglar protection measures which are becoming more and more important in today's world in order to prevent unauthorized entry into a room or an area through windows, doors or gates around the world to protect property and to secure values and goods.

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EFA-SST® SECURE
THE SAFEST HIGH-SPEED DOOR IN THE WORLD

GENERAL
- Patented door technology with proven EFAFLEX spiral construction
- Reinforced and overlapping EFA-ALUX® door blade construction
- EFA-TRONIC® Professional control box
- Max. sizes W = 4,000 mm; H = 5,000 mm

SECURITY / SAFETY
- Certified up to Resistance Class 4 acc. to DIN V ENV 1627:1630
- Automatic locking system after each operating cycle
- EFA-TLG® infrared light curtain

SPEED / OPERATION
- Opening / closing speed up to 1.0 m/s / 0.6 m/s
- Up to 250,000 operating cycles per year
- Manual opening utilizing spring tension

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TOP PROTECTION FOR YOUR ASSETS

SECURITY WITHOUT LIMITS

The EFA-SST® Secure combines speed and security in a single door solution. The door fits seamlessly into the structure of the builing and features impressive opening and closing speeds to ensure logistic processes remain quick and efficient, while providing maximum protection for your assets and valuables.

TESTED AND CERTIFIED

The EFA-SST® Secure is tested in compliance with DIN V ENV 1627-1630 and DIN/TS 18194-2020, the door can be installed according resistance class 3 (RC 3) or even resistance class 4 (RC 4) to offer maximum protection against burglaries, robbery and vandalism

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RESISTANCE CLASSES ACC. TO DIN V ENV 1627-1630 & DIN/TS 18194-2020

Resistance class	Perpetrator profile	Approach / Methode	Resistance time per attempt	Total resistance time
RC1 N (new)*	Occasional perpetrator	Low basic protection against break open attempts with physical force (vandalism) such as kicking, jumping, push up, tear out.	3 min**	15 min**
RC2 N (new)*	Occasional perpetrator	The occasional perpetrator tries to break open the locked and bolted component with simple tools, such as screwdriver, pliers and wedge.	3 min	15 min
RC2 (WK2)	Occasional perpetrator	The occasional perpetrator tries to break open the locked and bolted component with simple tools, such as screwdriver, pliers and wedge.	3 min	15 min
RC3 (WK3)	Habitual perpetrator	The habitual offender additionally tries to break open the locked and bolted component with a second screwdriver and a crowbar.	5 min	20 min
RC4 (WK4)	Experienced perpetrator	The experienced perpetrator also uses sawing tools and impact tools, such as a striking axe, crowbar, hammer and chisel, as well as a cordless drill.	10 min	30 min
RC5 (WK5)	Professional perpetrator	The professional perpetrator additionally uses power tools, such as a drill, jigsaw or reciprocating saw and angle grinder with a max. disc diameter of 125 mm.	15 min	40 min
RC6 (WK6)	Professional perpetrator	The professional perpetrator also uses powerful power tools, such as a drill, jigsaw or reciprocating saw and angle grinder with a max. disc diameter of 250 mm.	20 min	50 min

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* The class is made only with standard window glass (i.e. without safety glazing).
** Only static and dynamic testing, no manual burglar testing

DIN/TS 18194:2020 - RC 3

REQUIREMENTS RESISTANCE CLASSES **RC 3**

DYNAMIC LOAD ACC. DIN V ENV 1629

The testing of **static load** is the first of three test procedures that the door must undergo. In this process, the door blade is tested at various load points by means of pressured bodies.

- **Static load for RC 3: 6,000 N**

DYNAMIC LOAD ACC. DIN V ENV 1629

The second test method for determining resistance under **dynamic load** is a pendulum test with a **50 KG twin-tyre**. The test is performed at different drop heights depending on the desired resistance class.

- **Drop height RC 3: 1200 mm**

MANUAL BREAK-IN ATTEMPT ACC. DIN V ENV 1630

In the manual test, the tester carries out a break-in attempt with a set of tools defined according to the resistance class. The criterion is the so-called "passable opening". At various points of attack, an attempt is made to identify weak points. To pass the test, the resistance time defined in the respective class must be achieved.

- **Defined tool set:** Screw drivers, pliers, wedges. crowbar, hammer & chisel
- **Resistance Time acc. RC 3: 5 min.**

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DIN/TS 18194:2020 - RC 4

REQUIREMENTS RESISTANCE CLASS **RC 4**

STATISTIC LOAD ACC. DIN V ENV 1628

The testing of **static load** is the first of three test procedures that the door must undergo. In this process, the door blade is tested at various load points by means of pressured bodies.

- **Static load for RC 4: 10,000 N**

DYNAMIC LOAD ACC. DIN V ENV 1629

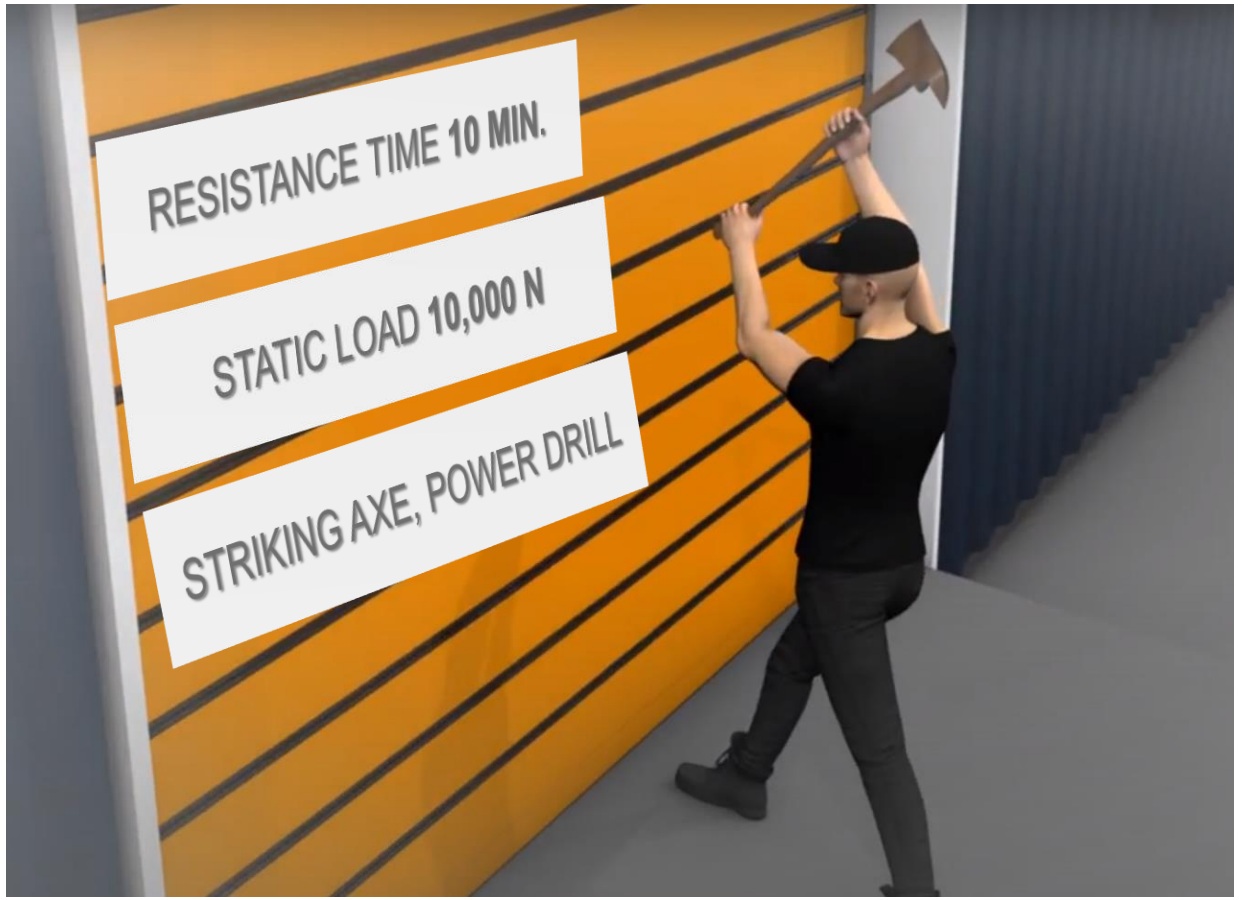
The second test method for determining resistance under **dynamic load** is a pendulum test with a **50 KG twin-tyre**. The test is performed at different drop heights depending on the desired resistance class.

- **Drop height RC 4: 1200 mm**

MANUAL BREAK-IN ATTEMPT ACC. DIN V ENV 1630

In the manual test, the tester carries out a break-in attempt with a set of tools defined according to the resistance class. The criterion is the so-called "passable opening". At various points of attack, an attempt is made to identify weak points. To pass the test, the resistance time defined in the respective class must be achieved.

- **Defined tool set:** Tools like striking axe and power drill plus RC 3 tool set
- **Resistance Time acc. RC 4: 10 min.**



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ADDITIONAL REQUIREMENTS FOR RESISTANCE CLASSES

ATTACK-SIDE VS. SAFE-SIDE

- Even a RC3 / RC4 resistance class door has only one “attack side” and one “safe side”. These sides are strictly specified.

  ➔ Attack-side is outside

  ➔ Safe-side is inside

STRUCTURAL CONDITIONS

- To guarantee resistance class RC3/RC4, even the structural conditions of the building must be executed according DIN V ENV 1627 standards (*see requirements on table on the right-hand side*).

ASSEMBLY

- Door frame mount must be carried out acc. EFAFLEX quotation drawing (fixing points)
- Bolt-through assembly is not possible

Use

- Industrial door
- Hall door
- Outdoor installation under a canopy provided by the owner possible

	Outdoor (-15 °C to +50 °C)
	Indoor (+5 °C to +50 °C)

Resistance class	Surrounding walls					
	Masonry as defined in DIN 1053-1				Reinforced concrete as defined in DIN 1045	
	Wall thick-ness (without render) mm	Compres-sive strength class of the blocks	Gross den-sity class of the blocks	Mortar group	Nominal thick-ness mm min.	Strength class min.
WK3/RC3	≥ = 115	≥ 12	–	min. MG II DM	≥ = 120	B 15
WK4/RC4	≥ 240	≥ 12	–	min. MG II DM	≥ 140	B 15

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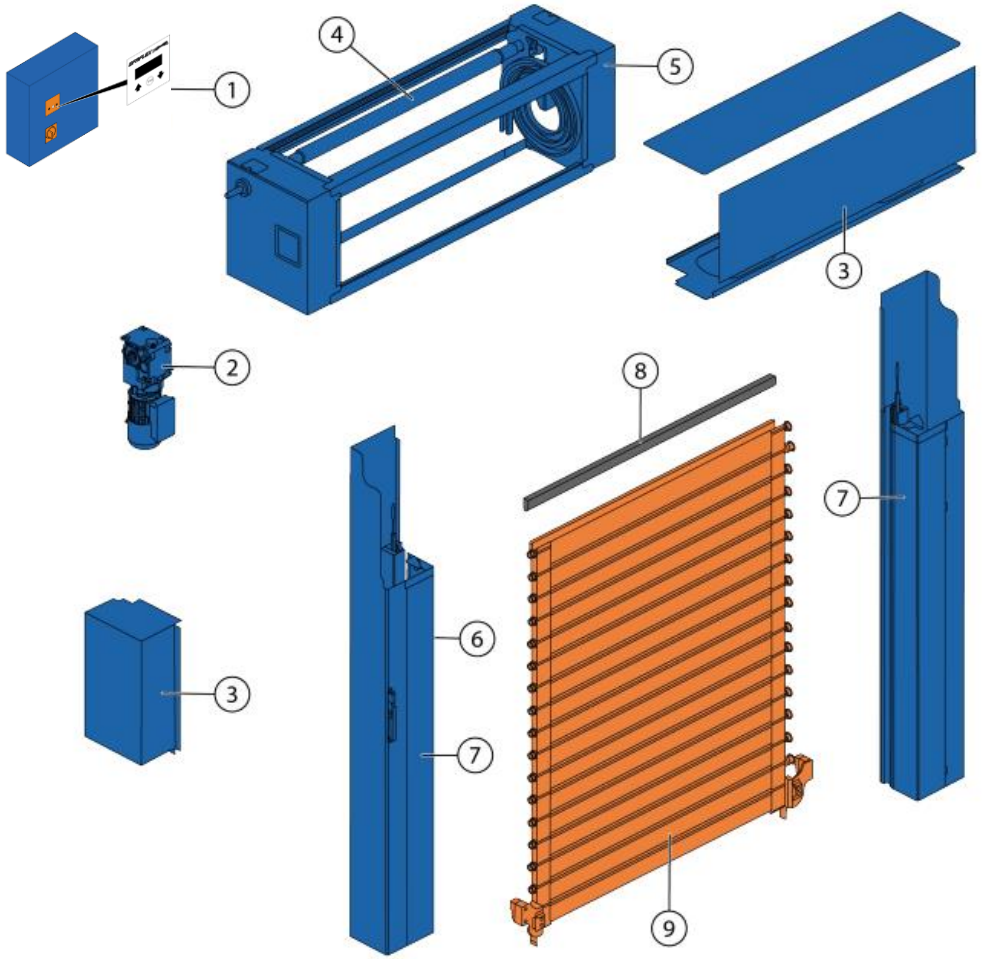
EFA SST® SECURE – GROUND CONSTRUCTION

1	EFA-TRONIC® Professional with frequency converter
2	Direct mount drive (spur gear asynchronous AC motor) with 2.2 kW and absolute encoder
3	Motor cover & spiral case cover (optional)
4	Synchronous shaft (transmission of force via continuous toothed belt)
5	Spiral case with main support, spiral guide
6 and 7	Side frames with vertical tracks, hinge chain, belts and weight counterbalance
8	Horizontal sealing
9	Door blade made from EFA-ALUX® aluminum lathes



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EFA SST® SECURE – GENERAL PERFORMANCE LEVELS

Performance properties in accordance with DIN EN 13241

Specification	Door system width/size/other specifications	Value
Resistance to wind load in compliance with DIN EN 12424	500 mm ≤ B ≤ 4000 mm	Class 4
Resistance to water penetration in compliance with DIN EN 12425	-	npd
Air permeability in compliance with DIN EN 12426	-	npd
Airborne sound insulation in compliance with EN ISO 717-1	for standard aluminium lath	Rw = 25 dB
Thermal insulation in compliance with DIN EN 12428	for standard aluminium lath	U = 5.80 W/m²K

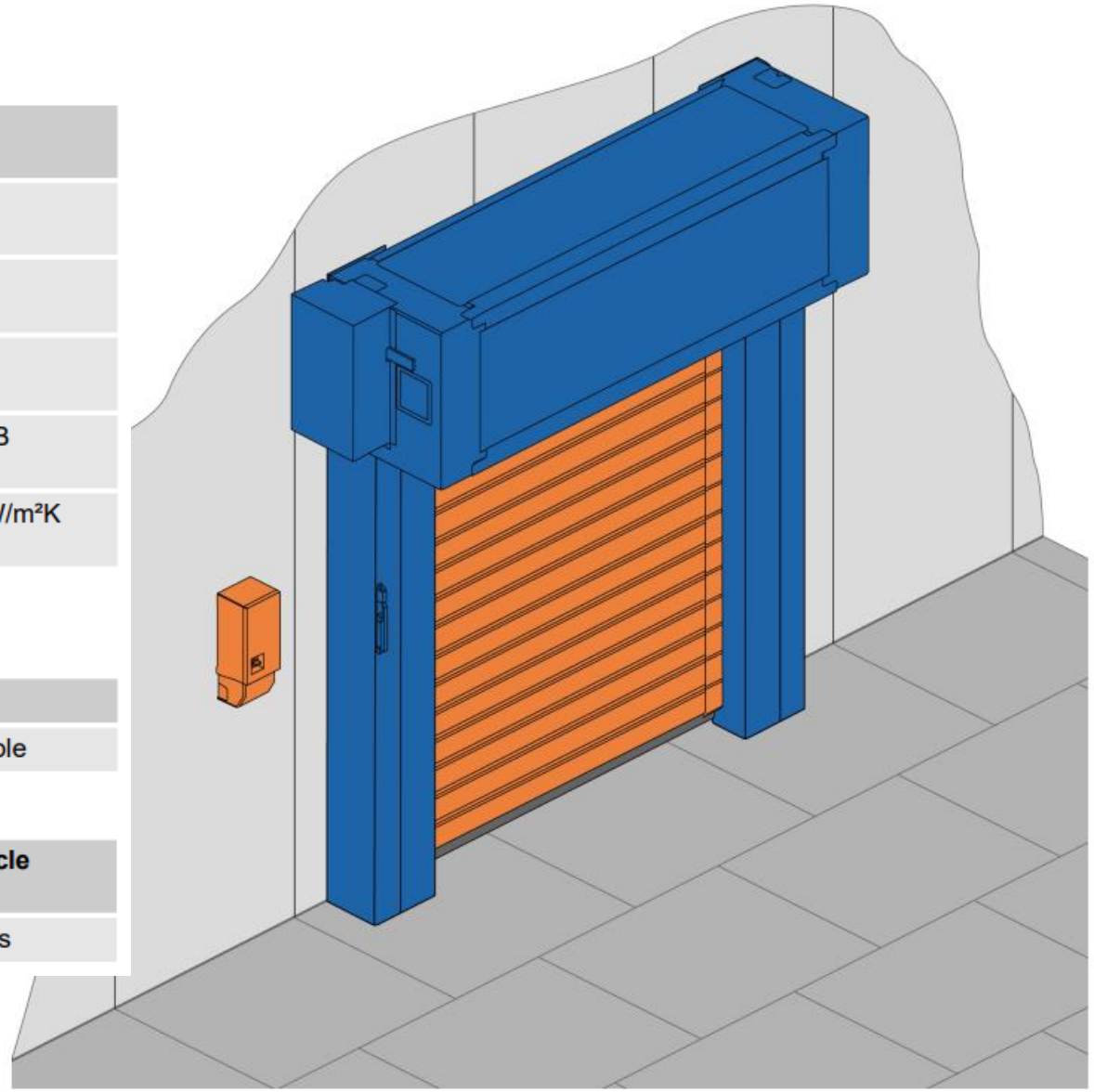
npd = no performance determined

Fire performance as per DIN 4102

Indication	Value
Material class	B2 normally inflammable

Performance

Door system type	Load cycles per year	Life cycle
306 R	250,000	10 years



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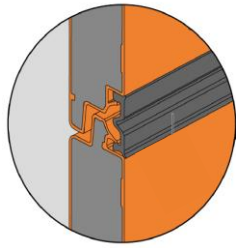
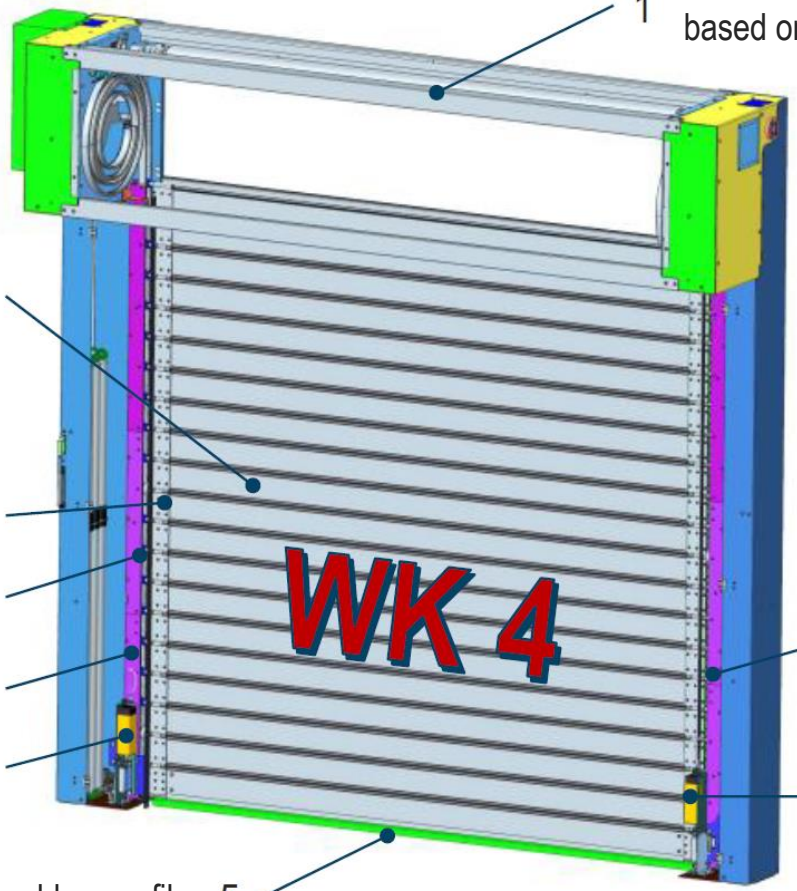
EFA SST® SECURE – SPECIAL FEATURES



New designed, **reinforced** lath made of extruded aluminum profiles 166 x 40 mm, overlapping 2



1 Robust and proven ground construction based on EFA-SST® ÜS

Reinforced hinge-chain 3

Reinforced rollers with steel core and double ball bearing 4

Reinforced vertical tracks 6

Automatic locking system 7

6 **Reinforced** vertical tracks

7 Automatic locking system

Bottom rubber profile with 22mm height 5

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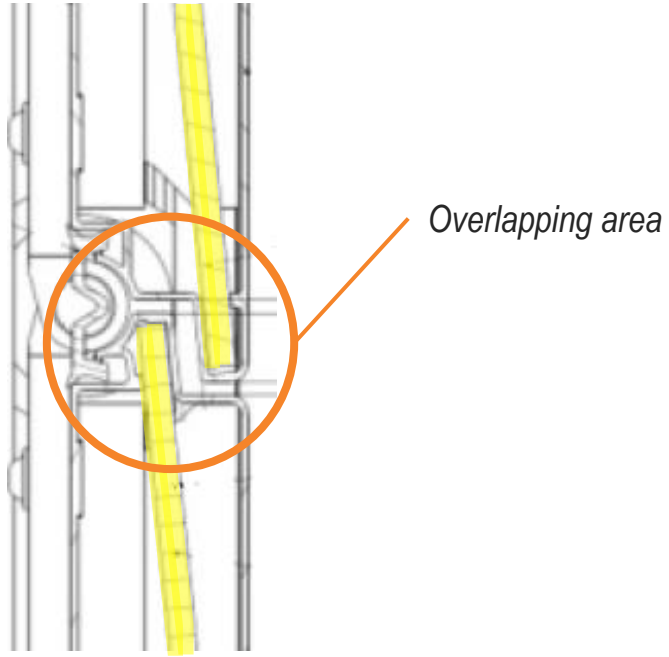
safe high-speed doors

EFA-ALUX® DETAIL

The EFA-ALUX® is a newly designed, reinforced lath comprising a double-walled anodized aluminum slat with dimension 40 x 166 mm and an additional stiffening profile (sheet steel as slanty insert with dimension 161 x 6 mm). The composite results in an overlapping door blade (including stiffening profile) which means that the visible slat spacing is 151 mm in height.

Dimension of the lath	40 x 166mm (visible height 151mm due to overlapping)
Finish	E6/EV1 (natural anodized)
Optional	Powder coating of aluminum profiles Colors acc. to RAL

The 6mm stiffening profile is included in every lath to meet RC 4 regulations.
For RC 3, stiffening profiles are only included in lathes located at the main load areas of the door blade



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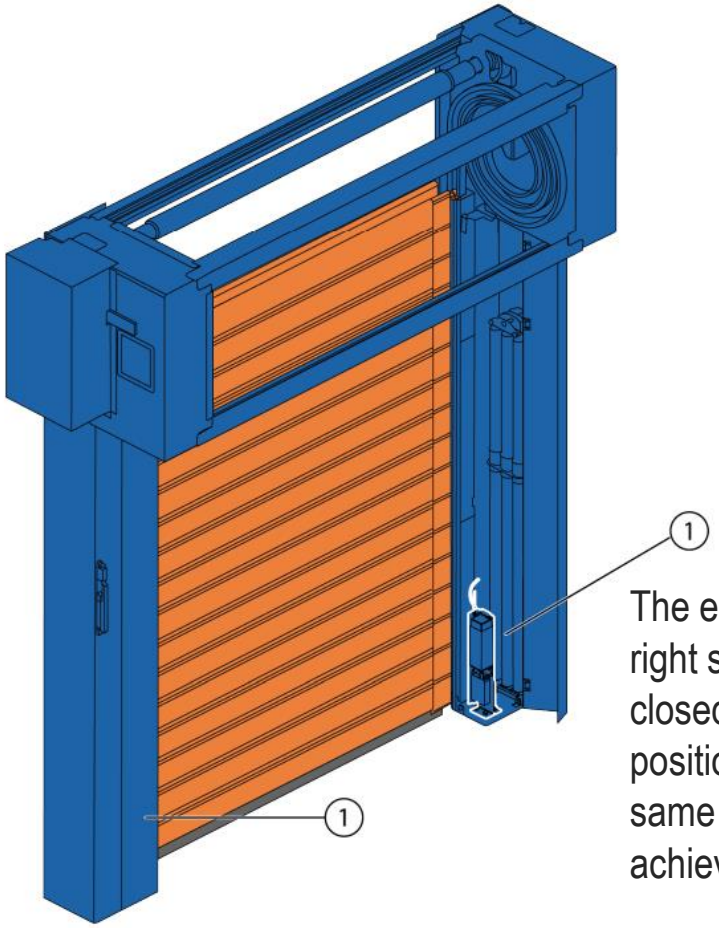
EFA-SST® SECURE LOCKING MECHANISM



The electromagnetic locks are installed in the left and right side frames. The locking bolts keep the door blade closed to prevent break-ins. Each time the “Door closed” position is reached, both locking bolts engage at the same time, thus ensuring that the resistance class is achieved each time the door system is closes.

It is not possible to trigger the locks manually, except in case of emergency operation.

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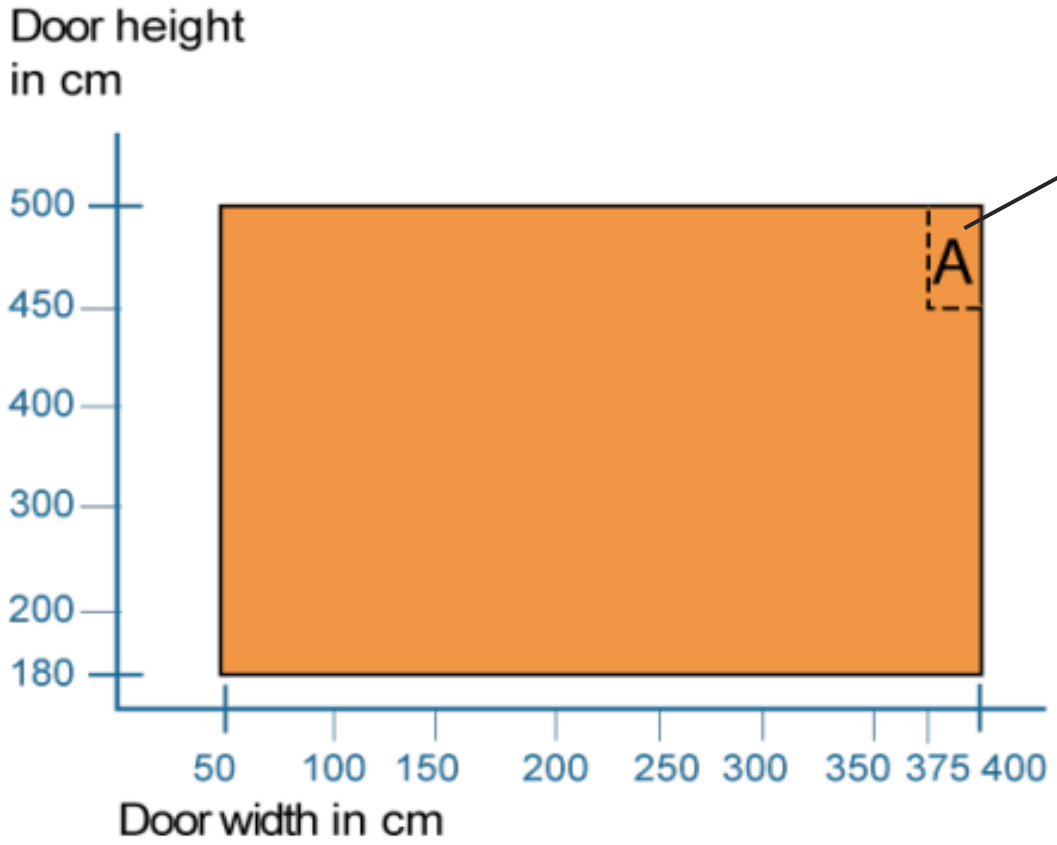
EFA SST® SECURE – POSSIBLE DIMENSIONS



The door system width 375 – 400 cm and door system height 450 – 500 cm are not possible with WK4/RC4

Door system heights and widths (inner clear height)

Door system type	Widths	Heights
306 R	500 – 4000 mm	1800 – 5000 mm

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EFA SST® SECURE – POTENTIAL TARGET INDUSTRIES

The EFA-SST® SECURE can be the most suitable solution for all industries or customers that store or produce assets or goods which are worth protecting in an advanced way.

Of course, there are specific target groups that may have an increased demand for security from the ground up.

Nevertheless, on the one hand not only the security industry itself needs security doors with certain resistance classes, on the other hand, the security industry does not exclusively need security doors.

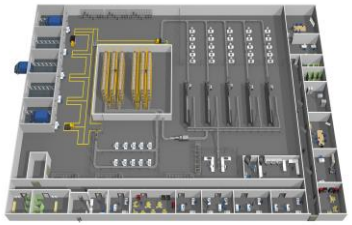
Industrial Factories

Museums

Power Plants

Luxury goods industry

Banknote production



Cash Processing

Certain customers do not only want to have a RC3 / RC4 resistance class door out of their own desire. They basically need a certified burglar proof door solution due to requirements of their security concepts or even insurance companies.

Security laboratories

Embassies/Ministries

Aerospace

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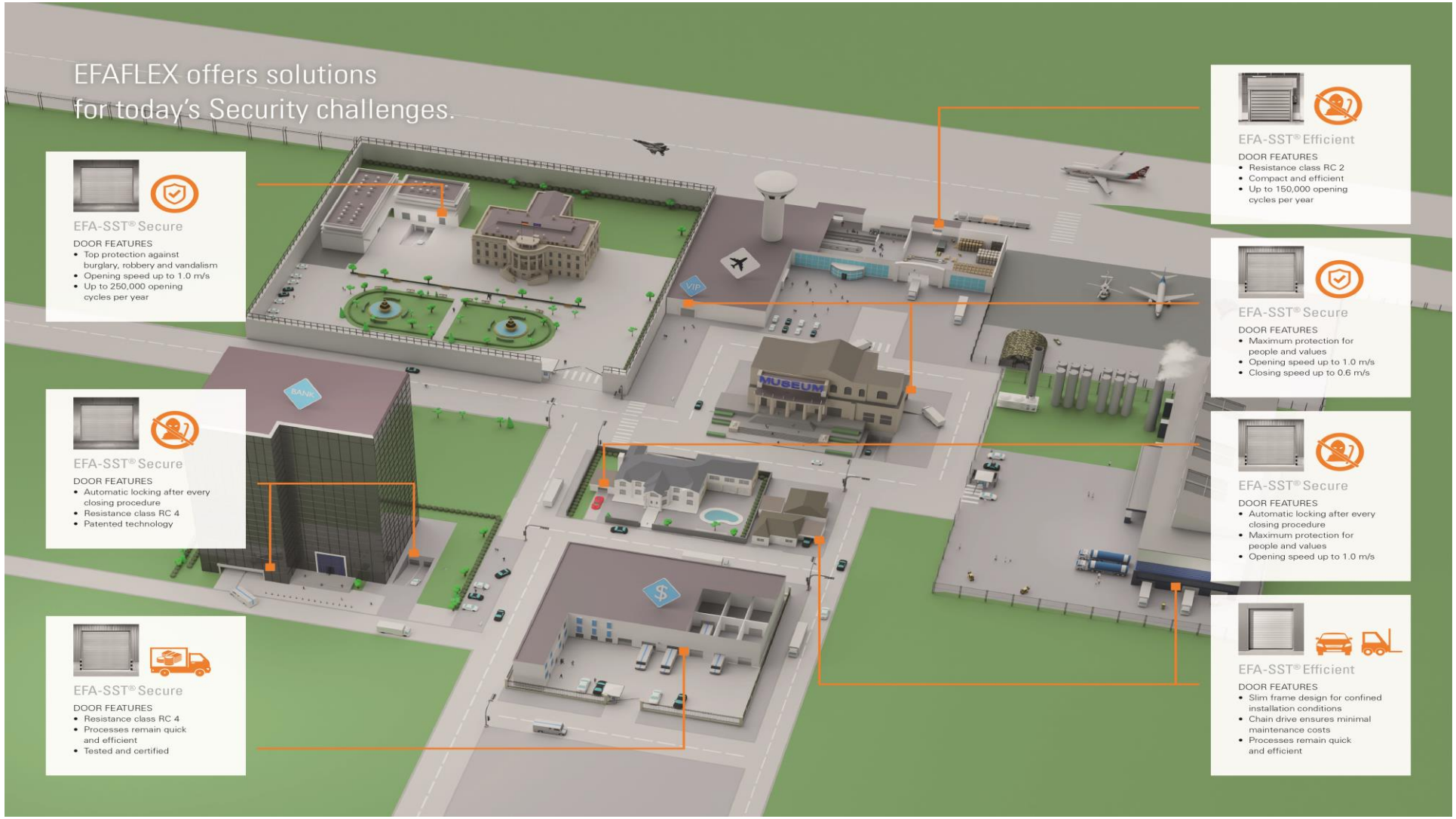
EFA SST® SECURE – POTENTIAL TARGET INDUSTRIES



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EFAFLEX SECURITY DOOR SOLUTIONAS AT A GLANCE

EFA-SST® SECURE

GENERAL
Resistance class RC 3 / RC4
EFA-TLG® light line grid

DOOR BLADE
EFA-ALUX® with stiffening profile

SPEED / CYCLES
1.0 m/s
250,000 load cycles per year

EFA-SST® EFFICIENT

GENERAL
Resistance class RC 2 standard
Chain drive with slimline frame
Photocell and contact edge

DOOR BLADE
EFA-THERM®
EFA-Clear® optional

SPEED / CYCLES
0.5 m/s
150,000 load cycles per year

EFA-SST® PREMIUM

GENERAL
Resistance class RC 2 available
EFA-TLG® light line grid

DOOR BLADE
EFA-THERM®
EFA-Clear® optional

SPEED / CYCLES
2.5 m/s
250,000 load cycles per year

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Thank you.

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