Defence and Industry

Doors for the protection of critical infrastructure



EFAFLEX
safe high-speed doors



Defence and Industry

When buildings and facilities requiring a particularly high level of protection need to be secured, every detail matters. Our high-speed doors play a central role in protecting critical infrastructure, securing buildings and safeguarding industrial production.

Whether for military facilities such as barracks and air bases, or for areas within the defence industry and defence logistics, EFAFLEX offers a wide range of high-speed doors that combine robust construction with high operating speeds and integrate seamlessly into building structures.



EFAFLEX offers solutions for military applications.



High-speed spiral door EFA-SST® TK-100
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High-speed spiral door EFA-SST® Alux
Page 9



High-speed spiral door EFA-SST® Secure
Page 6

YOUR BENEFITS AT A GLANCE:

- Highly durable high-speed doors for interior areas and external building openings
- ATEX-certified doors for potentially explosive atmospheres
- Resistance class up to RC 4 for demanding perimeter protection
- Automatic locking with every closing cycle
- Patented technology for consistently high levels of protection



High-speed spiral door EFA-SST® Therm

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High-speed turbo roll-up door EFA-STR®

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High-speed spiral door EFA-SST® EX

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EFA-SST® SECURE AT A GLANCE:

- Resistance Class RC 4 in accordance with DIN/TS 18194:2020 – RC 4
- Patented technology
- Tested and certified by ift Rosenheim
- Automatic locking during every closing procedure
- Emergency operation via pre-tensioned tension springs
- Opening speed up to 1.0 m/s
- Closing speed up to 0.6 m/s
- Up to 250,000 operating cycles p.a.
- Standard sizes up to w=4,000 mm, h=5,000 mm

The most secure high-speed door in the world. EFA-SST® Secure

With the EFA-SST® Secure, you can provide maximum protection to the people around you without having to forego the speed of an efficient high-speed door. The door fits seamlessly into the structure of the building and impresses with top opening and closing speeds. Your processes remain quick and efficient while your valuables receive optimum protection. With our Secure doors you will find the perfect solution for virtually every security application.

The hall door for potentially explosive atmospheres.
EFA-SST® EX

The EFA-SST® EX is designed for both outdoor and indoor use in potentially explosive atmospheres. In addition to high opening and closing speeds, it particularly impresses with a solid door leaf with high wind resistance and optimal sealing. The door leaf consists of double-walled aluminium laths that be combined with transparent laths.

It is also possible to have the door leaf composed entirely of transparent laths. Due to the no-contact support of the laths in the spiral and the associated wear-free movement, their transparency is guaranteed for many years.

EFA-SST® EX AT A GLANCE:

- For use in explosion Protection Zones 1 and 2, optionally on request in EX Protection Zones 21 and 22
- Highest wind load capacity
- Suitable for external and internal applications
- Opening speed up to 1.0 m/s
- Closing speed up to 0.5 m/s
- Up to 200,000 operating cycles p.a.
- Standard sizes up to w=4,000 mm, h=5,000 mm





EFA-SST® THERM AT A GLANCE:

- Max. thermal insulation with EFA-THERM® insulation laths
- Opening up to 2.5 m/s
- Closing up to 1.0 m/s
- Usable up to wind class 4
- EFA-TLG® as standard for Premium and ECO door variants
- U value: up to 1.4 W/m²K
- Premium version: up to 500,000 operating cycles p.a.
- Standard sizes up to w=5,000 mm, h=5,100 mm

The new edition of our original. EFA-SST® Therm

Better, faster, stronger – the next generation of our EFA-SST® Therm impresses with an exceptionally long service life and outstanding wind resistance. Excellent U-values also make the door a top performer when it comes to sustainability.

As the world's first manufacturer of industrial doors, EFAFLEX offers thermally separated EFA-THERM® insulated laths as standard. This enables the door to achieve an excellent U-value of up to 1.4 W/m²K, significantly reducing heat and cold losses.

The resilient classic.
EFA-SST® Alux

The EFA-SST® Alux high-speed spiral door is an extremely fast, safe, and reliable closure solution. Its double-walled aluminium laths provide a highly robust construction, enabling up to 500,000 operating cycles per year. The EFA-SST® Alux is particularly stable and achieves the highest wind resistance class, Class 5. The door opens and closes reliably at all times, even under the highest wind loads.

EFA-SST® ALUX AT A GLANCE:

- Double-wall aluminium laths
- Opening up to 2.5 m/s
- Closing up to 1.0 m/s
- Highest wind resistance at wind class 5
- EFA-TLG® as standard for Premium and ECO door variants
- Premium version: up to 500,000 operating cycles p.a.
- Standard sizes up to w=5,000 mm, h=5,100 mm





EFA-STR®
AT A GLANCE:

- Opening speed up to 4.0 m/s
- Closing speed up to 1.0 m/s
- Highest wind load capacity
- Top safety devices
- Up to 250,000 operating cycles p.a.
- Standard sizes up to w=7,000 mm, h=6,000 mm

The fastest vertically opening door. EFA-STR®

The high-speed turbo roll-up door EFA-STR® opens at an incredible speed of up to 4 m/s thanks to its spiral technology, making it our fastest vertically opening door. With the EFA-STR®, your logistic processes become faster and more efficient. The combination of a spiral door leaf support and flexible curtain ensures an optimal traffic flow.

The specialist door for minus degrees.
EFA-SST® TK-100

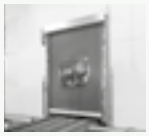
The EFA-SST® TK-100 high-speed spiral door is the first true single-door solution for freezer areas. In addition to the highest opening and closing speeds, it achieves the best insulation values for spiral doors and thus represents a high-quality solution for every deep-freeze room.

EFA-SST® TK-100 AT A GLANCE:

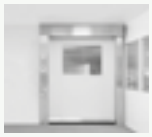
- Optimal single door solution
- Air permeability class 5 according to DIN EN 12426
- Frames and laths thermally separated
- Almost hermetically sealed
- Opening speed up to 2.0 m/s
- Closing speed up to 0.5 m/s
- U value up to 0.62 W/m²K
- Up to 200,000 operating cycles p.a.
- Standard sizes of up to w=4,500 mm, h=6,000 mm



EFAFLEX offers solutions for the defence industry.



High-speed roll-up door
EFA-SRT® MS Performance
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High-speed roll-up door
EFA-SRT® CR Premium
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High-speed roll-up door
EFA-SRT® Premium
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More information about our solutions for the defense industry at:
www.efaflex.com/defence

YOUR BENEFITS AT A GLANCE:

- Opening speed of up to 2.0 m/s and closing speed of up to 0.75 m/s
- Up to 400,000 operating cycles per year and particularly high durability
- Resistance classes up to RC 4,
- certified by ift Rosenheim
- CR doors meet TÜV-tested clean-room standards
- Machine protection doors for smooth production processes



High-speed spiral door EFA-SST® Alux
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High-speed spiral door EFA-SST® PS
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High-speed spiral door EFA-SST® Secure
Page 6



EFA-SRT® PREMIUM AT A GLANCE:

- Clean room version available
- Hygiene version available
- Heavy-duty inside door
- With optional crash protection
- Opening speed up to 2.0 m/s
- Closing speed up to 0.75 m/s
- Up to 150,000 operating cycles p.a.
- Standard sizes up to w=5,000 mm, h=5,500 mm

The reliable all-rounder. EFA-SRT® Premium

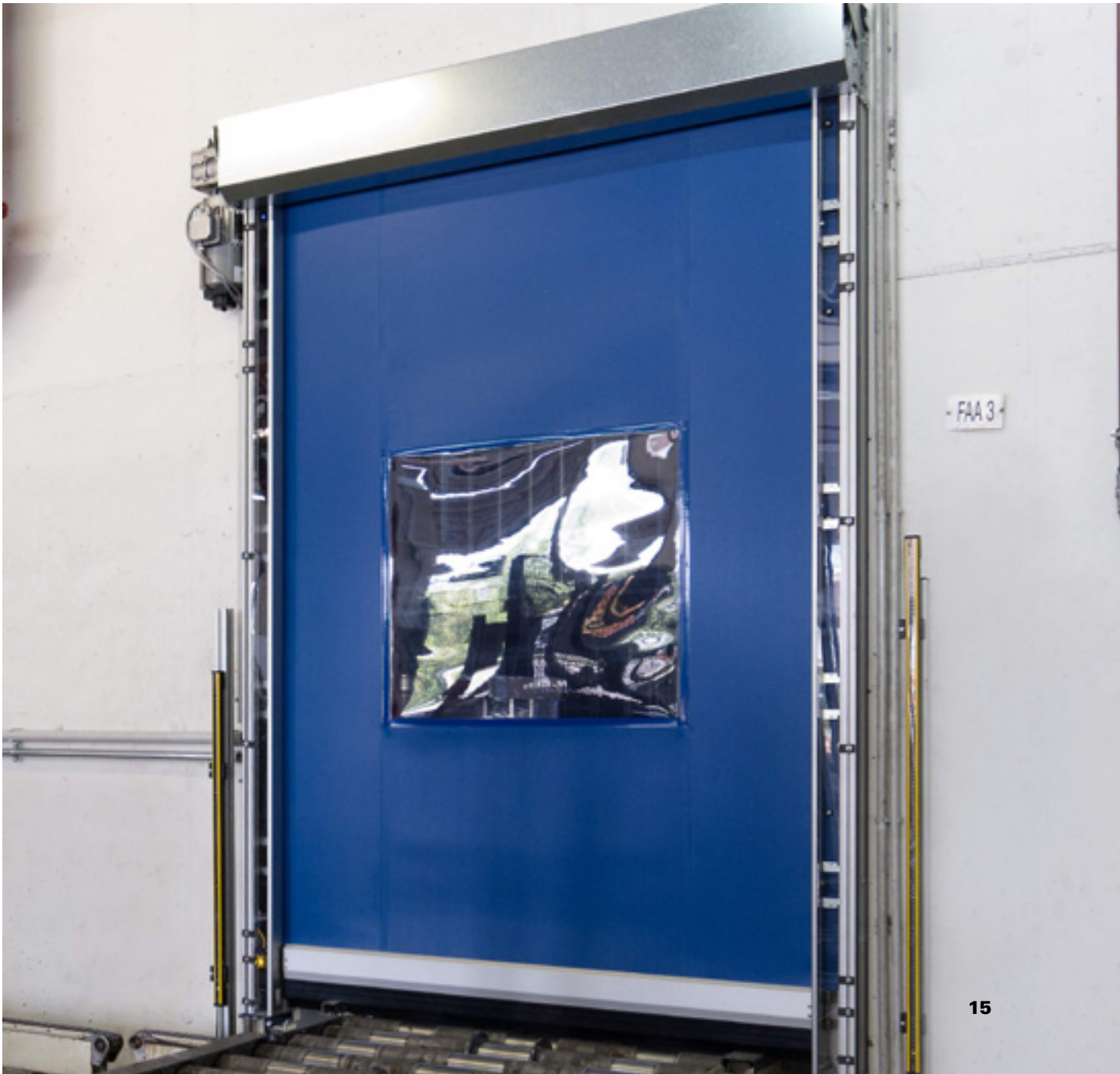
The heavy duty roll-up door EFA-SRT® is a real all-rounder! It can be used as an inside door or as an additional hall closure. The high-speed roll-up door EFA-SRT® Premium is a high-quality solution especially for areas that are frequently used by forklifts. EFAFLEX roll-up doors are available in galvanised steel or stainless steel. For reliable, long-lasting operation of the roll-up doors, all components are streamlined and are characterised by high ease of maintenance.

The powerful machine protection door.
EFA-SRT® MS Performance

The EFA-SRT® MS Performance can be flexibly adapted to the individual needs of custom requirements. Attachment components and fence connections can be mounted on the newly developed frames made of extruded aluminum profiles. In total, it is possible to optionally integrate up to four limit switches into the frames. This very low-maintenance door features, among other things, a foldable cover and detachable cable covers, which speeds up and facilitates servicing. Additionally, the transparent frame covers make it possible to install LED strips for a traffic light function.

EFA-SRT® MS PERFORMANCE AT A GLANCE:

- Functional safety performance level »d«
- Up to 1,000,000 cycles per year
- Transparent, easy-to-open door frames
- Self-assembly possible
- Rotatable drive in up to eight positions
- Maximum speed up to 2.0 m/s
- Door curtain made from flexible PVC
- Life cycle 12 years
- Standard sizes of up to w=6,200 mm, h=5,500 mm





EFA-SRT® CR PREMIUM AT A GLANCE:

- Almost airtight
- Smooth surface structure
- Also suitable for air locks
- Opening speed up to 1.0 m/s
- Closing speed up to 0.5 m/s
- Up to 150,000 operating cycles p.a.
- Standard sizes up to w=2,500 mm, h=3,000 mm

The special door for clean rooms. EFA-SRT® CR Premium

With the EFA-SRT® CR Premium high-speed roll-up door, EFAFLEX has developed a door for the specific requirements of clean rooms (GMP). Even with high pressure on the door curtain, the air exchange is constantly reduced to a minimum, which increases the service life of air filters. The door model offers an outstanding, hygienic design with reduced surfaces to prevent particle deposits.

The fastest parking garage door in the world.
EFA-SST® PS

The EFA-SST® PS is a space-saving door specially developed for parking and garage systems. This door can be optimally installed even with minimal space in the lintel or side case area. In addition, it also features the typical properties of every EFAFLEX high-speed door: safe, reliable and incomparably fast.

EFA-SST® PS AT A GLANCE:

- Space-saving construction
- Opening up to 1.8 m/s
- Closing up to 1.0 m/s
- Highest wind load capacity
- Top safety devices
- Optionally with EFA-VENT® ventilation laths
- Up to 200,000 operating cycles p.a.
- Standard sizes of up to w=6,100 mm, h=4,000 mm



Technical details

High-speed doors burglary protection

		EFAPROTECT Series EFA-SST® Secure (RC3+RC4)
	Size	L
Application	Interior door	●
	Lock-up doors	●
Wind load max.*	According to DIN EN 12424 class	4
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	–
Air permeability*	According to DIN EN 13241 class	–
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	25
U value maximum*	in W/m²K according to DIN EN 13241	5.8
Door size (in mm)	Width W max.	4,000
	Height H max.	5,000
Guide of door leaf	Round Spiral	●
Steel design	Galvanized sheet steel frame	●
	Powder coated in RAL colours	○
Door leaf	EFA-THERM® laths insulated/painted	–
	EFA-THERM® laths with double-walled viewing windows	–
	EFA-CLEAR® Vision laths single-walled	–
	EFA-VENT® Ventilation laths	–
	EFA-ALUX® Aluminium laths	●
Fire class	Building Material class DIN 4102	B2
Weight balancing by		Spring
Designed for approx ... operating cycles per year		250,000
Drive	Electric motor	●
Control	EFA-TRONIC®	–
	EFA-TRONIC® Professional	●
	Main switch and foil keypad	●
Lead	Electricity connection 230 V/50 Hz	●
	Electricity connection 400 V/50 Hz	○
	Circuit breaker	16 A (K)
Emergency operation	Automatic after manual activation	●
	Manual activation	–
Safety Devices	EFA-TLG® door light grid in door closing line	●
	Contact edge	–
	Light barrier	–
	Approach area monitoring	○
	Light grid, external	○
Safety system including activator	EFA-SCAN® frame/bollard	–/○
	EFA-3D-SCAN	○

● Standard, ○ upon request, – Not available, * Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details

High-speed doors explosion protection

		EX Series EFA-SST® EX
Application	Interior door	●
	Lock-up doors	●
ATEX Directive	According to RL 2014/34/EU	Zone 1 & 2
Wind load max.*	According to DIN EN 12424 class	2 – 4
	resp. in km/h	–
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	0
Air permeability*	According to DIN EN 13241 class	2
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	23
U value maximum*	in W/m²K according to DIN EN 13241	5.8
Door size (in mm)	Width W max.	4,000
	Height H max.	5,000
Guide of door leaf	Round Spiral	●
	Oval Spiral	●
Steel design	Galvanized sheet steel frame	●
	Stainless steel	○
	Powder coated in RAL colours	○
Door leaf	EFA-CLEAR® Vision laths single-walled	●
	EFA-VENT® Ventilation laths	○
	EFA-ALUX® Aluminium laths	●
	Colour according to RAL (without vison panel)	○
	flexible fabric in different colours with/ without vison panel	–
Fire class	Building Material class DIN 4102	B2
Weight balancing by		Spring
Designed for approx ... operating cycles per year		200,000
Drive	Electric motor	●
Control	EFA-TRONIC® Professional	●
	Main switch and foil keypad	●
Lead	Electricity connection 230 V/50 Hz	●
	Circuit breaker	16 A (K)
Manual locking		○
Emergency operation	Automatic after manual activation	●
Safety Devices	Contact edge	●
	Light barrier	●

● Standard, ○ upon request, – Not available, * Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical data
High-speed spiral doors

		S Series		
		EFA-SST® Therm		
		Premium	ECO	Basic
	Size	L	L	L
Application	Interior door	●	●	●
	Lock-up doors	●	●	●
Wind load, max.*	According to DIN EN 12424 class	2–4	2–4	2–4
Operating forces/safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	3	3	3
Air permeability*	According to DIN EN 13241 class	3	3	3
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	24	24	24
U value maximum*	in W/m²K according to DIN EN 13241	1.4	1.4	1.4
Door size (in mm)	Width W max.	5,000	5,000	5,000
	Height H max.	5,100	5,100	5,100
Maximum door leaf speed*	in m/s	2.5	1.5	0.7
Average speed, approx.*	Opening in m/s	2.0	1.1	0.6
	Closing in m/s	–	–	0.6
	Closing in m/s, with EFA-TLG® door light-line grid	1.0	1.0	–
Guide of door leaf	Round Spiral	●	●	●
Steel design	Galvanized sheet steel frame	●	●	●
	Stainless steel	o	o	o
	Powder coated in RAL colours	o	o	o
Door leaf	EFA-THERM® laths insulated/painted (with lining)	●	●	●
	EFA-THERM® laths insulated/painted (with smooth surface)	o	o	o
	Thermally separated, double-walled EFA-CLEAR® sight lath	o	o	o
	EFA-CLEAR® Vision laths single-walled	o	o	o
	EFA-VENT® ventilation laths	o	o	o
	Colour according to RAL (without vison panel)	o	o	o
Door frame	Pivotable frame cover	●	o	o
	Frame extension	o	o	o
	Flexible extension of the end-lath straight	o	o	o
	Flexible extension of the end-lath slanted	o	o	o
	Rigid extension of the end-lath straight	o	o	o
	Rigid extension of the end-lath slanted	o	o	o
Fire class	Building Material class DIN 4102	B2	B2	B2
Weight balancing by		Spring	Spring	Spring
Designed for approx ... operating cycles per year		500,000	250,000	100,000
Drive	UL electric motor with 24V brake	●	●	●
Control	EFA-TRONIC® on the wall	●	●	o
	EFA-TRONIC® integrated	o	o	–
	EFA-TRONIC® Light	–	–	●
	EFA-TRONIC® Professional	o	o	o
	Main switch and foil keypad	●	●	●
Lead	Electricity connection 230 V / 50 Hz	●	●	●
	Electricity connection 400 V / 50 Hz	o	o	o
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)
Manual locking		●	●	●
Emergency operation	Automatic after manual activation	●	●	●
Safety Devices	EFA-TLG® door light grid in door closing line	●	●	o
	Contact edge	–	o	●
	Light barrier	–	o	●
	Approach area monitoring	o	o	o
	Light grid, external	o	o	o
	Broken spring detection	●	●	●
Safety system including activator	EFA-SCAN® / EFA-3D-SCAN	o/o	o/o	o/o
Equipment package	Process	o	o	–
	Security 1	o	o	–
	Security 2	o	o	–
	Cooling Areas	o	o	–
	UL Certification	o	o	o

● Standard, o upon request, – Not available,
*Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical data
High-speed spiral doors

		S Series		
		EFA-SST® Alux		
		Premium	ECO	Basic
	Size	L	L	L
Application	Interior door	●	●	●
	Lock-up doors	●	●	●
Wind load, max.*	According to DIN EN 12424 class	5	5	5
Operating forces / secure closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	0	0	0
Air permeability*	According to DIN EN 13241 class	2	2	2
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	25	25	25
U value maximum*	in W/m²K according to DIN EN 13241	5.7	5.7	5.7
Door size (in mm)	Width W max.	5,000	5,000	5,000
	Height H max.	5,100	5,100	5,100
Maximum door leaf speed*	in m/s	2.5	1.5	0.7
Average speed, approx.*	Opening in m/s	2.0	1.1	0.6
	Closing in m/s	–	–	0.6
	Closing in m/s, with EFA-TLG® door light-line grid	1.0	1.0	–
Guide of door leaf	Round Spiral	●	●	●
Steel design	Galvanized sheet steel frame	●	●	●
	Stainless steel	o	o	o
	Powder coated in RAL colours	o	o	o
Door leaf	EFA-ALUX® aluminium lath lined 225	●	●	●
	EFA-ALUX® aluminium lath smooth 151	o	o	o
	EFA-CLEAR® Vision laths single-walled	o	o	o
	EFA-VENT® ventilation lath	o	o	o
	Colour according to RAL (without vison panel)	o	o	o
Door frame	Pivotable frame cover	●	o	o
	Frame extension	o	o	o
	Flexible extension of the end-lath straight	o	o	o
	Flexible extension of the end-lath slanted	o	o	o
	Rigid extension of the end-lath straight	o	o	o
	Rigid extension of the end-lath slanted	o	o	o
Fire class	Building Material class DIN 4102	B2	B2	B2
Weight balancing by		Spring	Spring	Spring
Designed for approx ... operating cycles per year		500,000	250,000	100,000
Drive	UL electric motor with 24V brake	●	●	●
Control	EFA-TRONIC® on the wall	●	●	o
	EFA-TRONIC® integrated	o	o	–
	EFA-TRONIC® Light	–	–	●
	EFA-TRONIC® Professional	o	o	o
	Main switch and foil keypad	●	●	●
Lead	Electricity connection 230 V / 50 Hz	●	●	●
	Electricity connection 400 V / 50 Hz	o	o	o
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)
Manual locking		●	●	●
Emergency operation	Automatic after manual activation	●	●	●
Safety Devices	EFA-TLG® door light grid in door closing line	●	●	o
	Contact edge	–	o	●
	Light barrier	–	o	●
	Approach area monitoring	o	o	o
	Light grid, external	o	o	o
	Broken spring detection	●	●	●
Safety system including activator	EFA-SCAN® / EFA-3D-SCAN	o/o	o/o	o/o
Equipment package	Process	o	o	–
	Security 1	o	o	–
	Security 2	o	o	–
	Cooling Areas	o	o	–
	UL Certification	o	o	o

● Standard, o upon request, – Not available,
*Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details
High-speed spiral doors

		S Series			
		EFA-STR®			
	Size	L	S	S-N	L-N
Application	Interior door	●	●	●	●
	Lock-up doors	○	○	○	○
Wind load max.*	According to DIN EN 12424 class	2 – 3	2 – 3	2 – 3	2 – 3
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	0	0	npd	npd
Air permeability*	According to DIN EN 13241 class	1	1	npd	npd
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	12	12	12	12
U value maximum*	in W/m²K according to DIN EN 13241	6.1	5.95	6.0	6.1
Door size (in mm)	Width W max.	4,000	7,000	7,000	4,000
	Height H max.	5,000	6,000	5,000	5,000
Maximum door leaf speed*	in m/s	4.0	3.2	3.2	3.2
Guide of door leaf	Round Spiral	●	●	–	–
	Low-header	–	–	●	●
Steel design	Galvanized sheet steel frame	●	●	●	●
	Stainless steel	○	○	○	○
	Powder coated in RAL colours	○	○	○	○
Door leaf	flexible fabric in different colours with/ without vison panel	○/●	○/●	○/●	○/●
Fire class	Building Material class DIN 4102	B2	B2	B2	B2
Weight balancing by		Spring	Spring	Spring	Spring
Designed for approx ... operating cycles per year		200,000	200,000	120,000	120,000
Drive	Electric motor	●	●	●	●
Control	EFA-TRONIC®	●	●	●	●
	EFA-TRONIC® Light	–	–	–	–
	EFA-TRONIC® Professional	○	○	○	○
	Main switch and foil keypad	●	●	●	●
Lead	Electricity connection 230 V/50 Hz	●	●	●	●
	Electricity connection 400 V/50 Hz	○	○	○	○
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)	16 A (K)
Emergency operation	Automatic after manual activation	●	●	●	●
Safety Devices	EFA-TLG® door light grid in door closing line	○	○ (*)	○ (*)	○
	Contact edge	●	●	●	●
	Light barrier	●	●	●	●
	Approach area monitoring	○	○	○	○
	Light grid, external	○	○	○	○
Safety system including activator	EFA-SCAN® frame/bollard	○/○	○/○	○/○	○/○
	EFA-3D-SCAN	○	○	○	○

● Standard, ○ upon request, – Not available, , npd = No Performance Determined, ○ (*) Standard for W > 5,000 mm,
* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details

High-speed doors deep-freeze

		S Series		
		TK-100		
	Size	Installation on warm side	Installation on cold side	Inertisation
Application	Interior door	Lock-up-deep-freeze	Lock-up-deep-freeze	●
	Lock-up doors	–	–	●
Wind load max.*	According to DIN EN 12424 class	3	3	3
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	npd	npd	npd
Air permeability*	According to DIN EN 13241 class	5	5	5
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	26	26	26
U value maximum*	in W/m²K according to DIN EN 13241	0.62	0.62	0.62
Door size (in mm)	Width W max.	4,000	4,000	4,500
	Height H max.	6,000	6,000	6,000
Maximum door leaf speed*	in m/s	2.0	2.0	2.0
Guide of door leaf	Round Spiral	●	●	●
Steel design	Galvanized sheet steel frame	●	●	●
	Stainless steel	○	○	○
	Powder coated in RAL colours	○	○	○
Door leaf	EFA-THERM® laths insulated / painted	●	●	●
	EFA-CLEAR® Vision laths double-walled, thermally separated	–	–	○
	EFA-ALUX® Aluminium laths	–	–	–
	Colour according to RAL (without vison panel)	○	○	○
Fire class	Building Material class DIN 4102	B2	B2	B2
Weight balancing by		Spring	Spring	Spring
Designed for approx ... operating cycles per year		200,000	200,000	200,000
Drive	Electric motor	●	●	●
Control	EFA-TRONIC®	–	–	●
	EFA-TRONIC® Light	–	–	–
	EFA-TRONIC® Professional	●	●	○
	Main switch and foil keypad	●	●	●
Lead	Electricity connection 230 V/50 Hz	–	–	●
	Electricity connection 400 V/50 Hz	●	●	○
	Circuit breaker	25 A (K)	25 A (K)	16 A (K)
Manual locking		○	○	○
Emergency operation	Automatic after manual activation	●	●	●
Safety Devices	EFA-TLG® door light grid in door closing line	●	–	●
	Contact edge	●	●	○
	Light barrier	○	●	○
	Approach area monitoring	○	–	○
	Light grid, external	○	–	○
Safety system including activator	EFA-SCAN® frame/bollard	–	–	–
	EFA-3D-SCAN	–	–	–

● Standard, ○ upon request, – Not available, npd = No Performance Determined,
* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details
High-speed roll-up doors

		R Series
		EFA-SRT® Premium
	Size	L
Application	Interior door	●
Wind load max.*	According to DIN EN 12424 class	0 – 3
	resp. in km/h	–
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	npd
Air permeability*	According to DIN EN 13241 class	npd
Direct airborne sound insulation R_W*	in dB according to DIN EN 717-1	12
Door size (in mm)	Width W max.	5,000
	Height H max.	5,500
Maximum door leaf speed*	in m/s	2.6
Average speed, approx.*	Opening in m/s	2.0
	Closing in m/s	0.75
	Closing by door light grid EFA-TLG® in m/s	1.0
Steel design	Galvanized sheet steel frame	●
	Stainless steel	○
	Powder coated in RAL colours	○
Door leaf	Door curtain made of flexible PVC, transparent with warning stripes in different colours	●
	flexible fabric in different colours with / without vison pane	○/○
Fire class	Building Material class DIN 4102	B2
Weight balancing by		Spring
Designed for approx ... operating cycles per year		150,000
Collision protection	EFA-EAS®	○
Drive	Electric motor	●
Control	EFA-TRONIC®	●
	EFA-TRONIC® Light	–
	EFA-TRONIC® Professional	○
	Main switch and foil keypad	●
Lead	Electricity connection 230 V/50 Hz	●
	Electricity connection 400 V/50 Hz	○
	Circuit breaker	16 A (K)
Emergency operation	Automatic after manual activation	●
	Manual activation	–
Safety Devices	EFA-TLG® door light grid in door closing line	○
	Contact edge	●
	Light barrier	●
	Approach area monitoring	○
	Light grid, external	○
Safety system including activator	EFA-SCAN® frame/bollard	–/○
	EFA-3D-SCAN	○

● Standard, ○ upon request, – Not available, npd = No Performance Determined,
* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details
High-speed doors machine protection

		MS Series						
		EFA-SRT® MS						
		Performance				A	A	USD
	Size	L	S	L	S	L	S	
Application	According to DIN EN 12424 class	●	●	●	●	●	●	●
Wind load max.*	According to DIN EN 13241 class	0	0	0	0	0	0	–
Operating forces/ safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled
Air permeability*	in dB according to DIN EN 717-1	0	0	0	0	0	0	–
Direct airborne sound insulation R_W*	in dB nach DIN EN 717-1	12	12	12	12	12	12	12
Door size (in mm)	Width W max.	3,500	6,200	3,000	5,000	3,000	6,000	6,000
	Height H max.	3,500	5,500	3,000	3,500	3,000	3,500	4,500
Maximum door leaf speed*	in m/s	2.0	2.0	1.8	1.8	1.8	1.8	1.8
Guide of door leaf	Round Spiral	–	–	–	–	–	–	–
Design	Galvanized sheet steel frame	○	○	●	●	●	●	●
	Powder coated in RAL colours	○	○	○	○	○	○	○
	Door frames aluminium anodised	●	●	–	–	–	–	–
Door leaf	EFA-CLEAR® Vision laths single-walled	–	–	–	–	–	–	–
	EFA-VENT® Ventilation laths	–	–	–	–	–	–	–
	EFA-ALUX® Aluminium laths	–	–	–	–	–	–	–
	Colour according to RAL (without vison panel)	–	–	–	–	–	–	–
	Door curtain made of flexible PVC, transparent with warning stripes in different colours	●	●	●	●	●	●	●
	flexible fabric in different colours with / without vison panel	○/○	○/○	○/○	○/○	○/○	○/○	○/○
Fire class	Building Material class DIN 4102	B2/B1 ○	B2/B1 ○	B2/B1 ○	B2/B1 ○	B2/B1 ○	B2/B1 ○	B2/B1 ○
	Building Material class SE DIN EN ISO 340	○	○	○	○	○	○	○
Weight balancing by		–	–	–	–	–	–	Weight
Designed for approx ... operating cycles per year		1,000,000	1,000,000	250,000	250,000	250,000	250,000	250,000
Drive	Electric motor	●	●	●	●	●	●	●
Control	EFA-TRONIC® Professional MS	●	●	●	●	●	●	●
	EFA-TRONIC®	○	○	○	○	○	○	○
	EFA-ProfiNetSafe®	○	○	○	○	○	○	○
Lead	Electricity connection 230 V/50 Hz	○	○	○	○	○	○	○
	Electricity connection 400 V/50 Hz	●	●	●	●	●	●	●
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)	16 A (K)	16 A (K)	16 A (K)	16 A (K)
Emergency operation	Automatic after manual activation	–	–	–	–	–	–	–
	Manual activation	●	●	●	●	●	●	–
Safety Devices	EFA-TLG® door light grid in door closing line	●	●	–	–	–	–	–
	Contact edge	○	○	●	●	●	●	●
	Light barrier	○	○	●	●	●	●	–
	Light grid, external	○ HSO	○ HSO	○ HSO	○ HSO	○ HSO	○ HSO	○

● Standard, ○ upon request, – Not available, HSO = Head Safe Option,
* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details
High-speed doors clean room

		CR Series EFA-SRT® CR Premium
Application	Interior door	●
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled
Clean room class	ISO 14644-1	5
Door size (in mm)	Width W max.	2,500
	Height H max.	3,000
Maximum door leaf speed*	in m/s	
Guide of door leaf	Round Spiral	–
Steel design	Galvanized sheet steel frame	–
	Stainless steel	●
	Powder coated in RAL colours	○
Door leaf	EFA-CLEAR® Vision laths single-walled	–
	non transparent infill single-walled / doublewalled	–
	Colour according to RAL (without vison panel)	–
	flexible fabric in different colours with / without vison panel	○/●
Fire class	Building Material class DIN 4102	B2
Weight balancing by		Spring
Designed for approx ... operating cycles per year		200,000
Drive	Electric motor	●
Control	EFA-TRONIC®	● integrated
	EFA-TRONIC® Professional	–
	Main switch and foil keypad	●
Lead	Electricity connection 230 V/50 Hz	●
	Circuit breaker	16 A (K)
Manual locking		–
Emergency operation	Automatic after manual activation	●
	Manual activation	–
Safety Devices	EFA-TLG® door light grid in door closing line	○
	Contact edge	●
	Light barrier	●
	Approach area monitoring	○
	Light grid, external	○
Safety system including activator	EFA-SCAN® frame/bollard	–/○
	EFA-3D-SCAN	○

● Standard, ○ upon request, – Not available, * Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

Technical details
High-speed spiral doors

		S Series		
		EFA SST		
		PS		
	Size	PS-L	PS-N	PS-S
Application	Interior door	●	●	●
	Lock-up doors	●	●	●
Wind load max.*	According to DIN EN 12424 class	4	4	2
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	2	–	2
Air permeability*	According to DIN EN 13241 class	1	–	1
Direct airborne sound insulation R_w*	in dB according to DIN EN 717-1	23	23	23
U value maximum*	in W/m²K according to DIN EN 13241	6.5	6.6	6.5
Door size (in mm)	Width W max.	4,000	4,000	6,100
	Height H max.	4,000	4,000	4,000
Maximum door leaf speed*	in m/s	2.0	1.5	1.5
Guide of door leaf	Round Spiral	●	–	●
	Oval Spiral	–	–	–
	Low-header	–	●	–
Steel design	Galvanized sheet steel frame	●	●	●
	Stainless steel	o	o	o
	Powder coated in RAL colours	o	o	o
Door leaf	EFA-THERM® laths insulated/painted	–	–	–
	EFA-CLEAR® Vision laths double-walled, thermally separated	–	–	–
	EFA-CLEAR® Vision laths single-walled	o	o	o
	EFA-VENT® Ventilation laths	o	o	o
	EFA-ALUX® Aluminium laths	●	o	●
	Colour according to RAL (without vison panel)	o	–	o
Fire class	Building Material class DIN 4102	B2	B2	B2
Weight balancing by		Spring	Spring	Spring
Designed for approx ... operating cycles per year		200,000	200,000	200,000
Drive	Electric motor	●	●	●
Control	EFA-TRONIC®	●	●	●
	EFA-TRONIC® Light	–	–	–
	EFA-TRONIC® Professional	o	o	o
	Main switch and foil keypad	●	●	●
Lead	Electricity connection 230 V/50 Hz	●	●	●
	Electricity connection 400 V/50 Hz	o	o	o
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)
Manual locking		o	o	o
Emergency operation	Automatic after manual activation	●	●	●
Safety Devices	EFA-TLG® door light grid in door closing line	o	o	o
	Contact edge	●	●	●
	Light barrier	●	●	●
	Approach area monitoring	o	o	o
	Light grid, external	o	o	o
Safety system including activator	EFA-SCAN® frame/bollard	–/o	o	o/o
	EFA-3D-SCAN	o	o	o

● Standard, o upon request, – Not available, npd = No Performance Determined
*Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

HEADQUARTER
EFAFLEX GERMANY

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG
Fliederstraße 14 · 84079 Bruckberg, Germany
Telephone +49 8765 82-0 · www.efaflex.com · info@efaflex.com

EFAFLEX GERMANY

EFAFLEX Tortechnik GmbH
Siemensstr. 12
31177 Harsum, Germany
Telephone +49 5127 2148-0
www.efaflex-tortechnik.de
info@efaflex-hildesheim.de

EFAFLEX AUSTRIA

EFAFLEX Torsysteme GmbH
Gewerbestraße 27
2500 Baden, Austria
Telephone +43 2252 42496
Fax +43 2252 42497
www.efaflex.at
verkauf@efaflex.at

EFAFLEX SWITZERLAND

EFAFLEX Swiss GmbH
Lerzenstrasse 10
8953 Dietikon, Switzerland
Telephone +41 43 322 90 20
Fax +41 43 322 50 65
www.efaflex.ch
info@efaflex.ch

EFAFLEX NETHERLANDS

EFAFLEX Netherlands B.V.
Floridadreef 118
3565 AM Utrecht, Netherlands
Telephone +31 346 557 111
www.efaflex.nl
info@efaflex.nl

EFAFLEX BELGIUM

EFAFLEX B.v.
Antwerpsesteenweg 45
2830 Willebroek, Belgium
Telephone +32 3 450 11 93
www.efaflex.be
info@efaflexbvba.be

EFAFLEX UNITED KINGDOM

EFAFLEX UK Limited
Rowan House, Hortonwood 33,
Telford, TF1 7EX, United Kingdom
Telephone +44 (0)1952 582 641
Fax +44 (0)1952 582 641
www.efaflex.co.uk
contactuk@efaflex.com

EFAFLEX CZECH REPUBLIC

EFAFLEX CZ, s.r.o.
Olší 55
391 61 Opařany, Czech Republic
Telephone +420 381 201 311
www.efaflex.cz
info.cz@efaflex.com

EFAFLEX POLAND

EFAFLEX Polska Sp. z o. o.
Krótka 27A
42-200 Częstochowa, Poland
Telephone +48 3436 71540
www.efaflex.pl
info@efaflex.pl

EFAFLEX SLOVAKIA

EFAFLEX SK s. r. o.
Šancová 7961/11B
811 05 Bratislava 1, Slovakia
Telephone +421 903 547 166
www.efaflex.sk
info.sk@efaflex.com

EFAFLEX SLOVENIA

EFAFLEX Inženiring D.O.O.
Ljubljana
Devova Ulica 5
1000 Ljubljana, Slovenia
Telephone +386 1 514 04 30
www.efaflex.si
prodaja@efaflex.si

EFAFLEX CHINA

EFAFLEX (Shanghai)
Industrial Doors Co., Ltd.
Room 101, Building 4, No. 535,
Shennan Road, Minhang District,
201108 Shanghai, China
Telephone: +86 21 6216 3708
www.efaflex.cn
info.china@efaflex.com

EFAFLEX MEXICO

EFAFLEX Mexico, S. de R.L. de C.V.
Parque Industrial Jint #6,
Int. 2 Nave 6, Avenida Jint de la
Colonia, San Lorenzo Almecatla,
Municipio de Cuautlancingo
Puebla, Mexico
Telephone +52 221 055 89
www.efaflex.mx
ventas@efaflex.com

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EFAFLEX
safe high-speed doors