

Serrures de sécurité

Serrature di sicurezza

Sicherheitsschlösser

Security locks

Cerraduras de seguridad

SECURITY LOCK MODEL 319 / 519 / 509E



ABOUT US

effeff UNDER THE UMBRELLA OF ASSA ABLOY SICHERHEITSTECHNIK



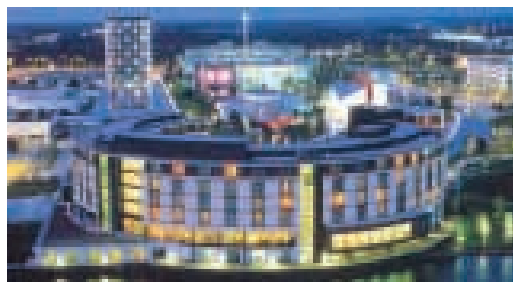
2

Whatever you want to secure, protect, maintain - effeff has the technology you require.

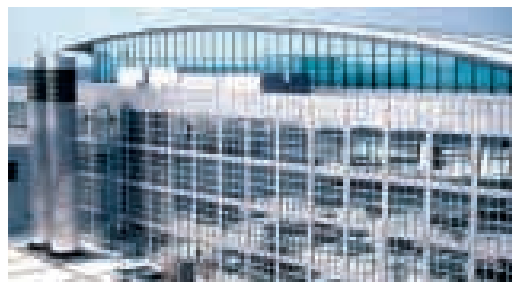
Breaking new grounds, implementing new technologies, developing new ideas. Founded in 1936, the company effeff based in Albstadt became the market leader in the field of door control systems by following a consistent strategy.

After starting the electric strike production in 1947, a comprehensive product range has been gradually developed, which enables effeff to offer suitable solutions for every door.

February 1st, 2000, effeff joined the ASSA ABLOY Group based in Stockholm, Sweden and merged at the beginning of 2005 with IKON GmbH Präzisionstechnik, Berlin who also belong to the group to become ASSA ABLOY Sicherheitstechnik GmbH.



The Ritz-Carlton, Wolfsburg



Hamburg Airport

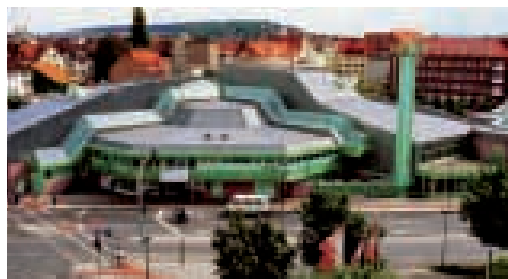


IKON and effeff, both renowned and well-established brands within the market remain under ASSA ABLOY Sicherheitstechnik GmbH as do the production sites of Berlin and Albstadt and the plant in Heiligenhaus. ASSA ABLOY is the leading manufacturer and supplier of mechanical and electromechanical locks and related products worldwide. Our customers benefit from the extensive know-how of the largest international group of companies, meeting every requirement in terms of total security and comfort throughout the world.

ASSA ABLOY



Munich Airport



Wasserparadies Hildesheim



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Power solution for the commercial sector!

The demands that a security lock must meet in the commercial sector differ from residential applications. A lock suitable for the commercial sector should fulfill the following functions:

► **Escape route security**

Use in doors complying with standards DIN EN 179 and DIN EN 1125 for emergency and panic exits and equipped with panic function

► **Security**

Intrusion prevention through automatic and/or multi-point locks

► **Access control**

Connection of actuation and status signals to access control system

► **Monitoring**

Comprehensive status signals to building management system and/or burglar alarm system

► **Convenience**

Motor unlocking, automatic actuation and opening (e.g. via revolving door drive)

Ideal for a variety of door types

In addition to the different functional demands, the lock should also be suitable for use on different door types. These include:

► **Fire doors**

in building sections (stairwell/floor), fire lobbies, archives, museums, EDP rooms, laboratories, etc.

► **Security doors**

such as panic or escape doors

The solutions are also suitable for every type of door:

► **Wooden and metal doors**

► **Metal frame and full leaf doors**

Adapted to suit every requirement

We provide security locks in the following variants to meet every customer requirement:

► **Mechanical**

► **Electromechanical**

► **Electromotor**

PERFORMANCE CHARACTERISTICS

SAFETY LOCKS

Your advantages at a glance:

The new lock range 319, 519 and 509E is available with backset 35, 40, 45 and 65 mm.

- ▶ Automatic locking
- ▶ Panic function
- ▶ Suitability for fire doors
- ▶ Optional: integrated escape door strike 331U and latch bolt lock 807
- ▶ Optional: Extension, 4th bolt
- ▶ Steel and wooden full leaf doors: meet the requirements for security doors up to WK 4 for a suitable door design
- ▶ All motor locks (519/509E) with integrated control for basic functions
- ▶ Optional: external control unit for further status signals
- ▶ An individual bolt can be pushed back without affecting the remaining bolts



One of our reference buildings: the Palace of Justice Antwerp

INNOVATION AND SECURITY

519 IN DETAIL

Integrated electronic lock control

Hi-O bus interface for communication with other door components



Easy plug-in cable connection
with only 5 mm cable diameter
for simple installation

Robust, powerful motor gear
unit

Solid bolt with 6 kN strength
to prevent pushing back. The
other bolts remain in the
locked position if an individual
bolt is pushed back ($> 6 \text{ kN}$).



Complete protection with the ANYKEY security lock fitting.



Model 319

Mechanical multi-point lock

We supply the purely mechanical 319 variant as a basic model.

These basic versions meet all the requirements demanded of security doors, fire doors, emergency exits and panic doors for compliance with DIN EN 179 and DIN EN 1125.

The new mechanical 319 multi-point lock meets requirements for more security, thanks to the automatic locking function. A mechanical sequential control reliably prevents unintended extension of the bolt when the door is open. Due to its continuous handle follower, the lock can be

combined internally with a door handle and panic bar and externally with a door knob. Full leaf steel and timber security doors can thus be equipped.

The new ANYKEY electronic access control device meets the requirements of DIN EN 1906 Class 2 for security fittings.

Metal frame doors require multi-point locking to meet Class WK2 requirements. In conjunction with ANYKEY, the 319 multi-point lock therefore meets all security door requirements necessary for compliance with DIN EN 1627 WK2 completely.

Distinctive features

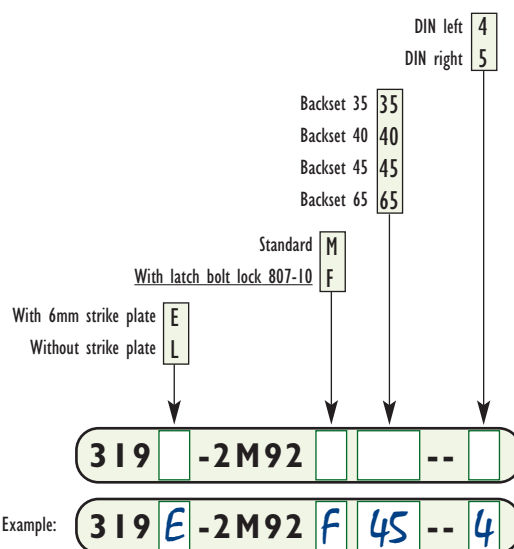
- ▶ Can be combined with ANYKEY in compliance with DIN EN 179
- ▶ Suitable for fire doors
- ▶ WK4 intrusion protection achievable in suitable door systems
- ▶ Variant available with integrated escape door strike 331U in strike plate
- ▶ Variant available with integrated latch bolt lock 807 in face plate

- ▶ Can be expanded with 4th bolt
- ▶ 3 solid lock bolts with 20 mm throw
- ▶ Mechanical automatic locking
- ▶ Panic function
- ▶ Use with front door furniture
- ▶ Strike plates also available as continuous 3 mm variants
- ▶ 3 mm 3-part strike plate variants available, see page 17

Combination options and order example

Model 319 with strike plate and integrated latch bolt lock 807-10 with 45 mm backset as DIN left variant.

All listed options can be achieved.

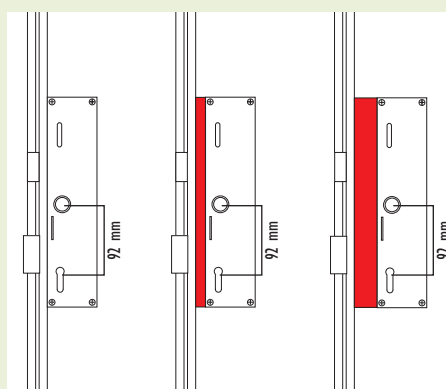


Model 319 – technical data

Backset	35, 40, 45, 65 mm
Distance	92 mm
Handle follower	9 mm
Certification	
DIN EN 1125	EC Conformity Certificate 0432 BRP-0017 13.06.2006
DIN EN 179	EC Conformity Certificate 0432 BRP-0001 13.06.2006
CE documents and further information	in Support Area at www.effeff.com
Suitable for fire doors	yes
Resistance to intrusion in compliance with DIN 18251-3	Class 5
Static latch load	5 kN
Static bolt load	10 kN
Bolt counterforce	6 kN
Bolt independence in case of manipulation	yes
Unlocking under preload for rated voltage, rated current	200 N

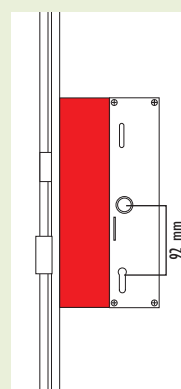
Backset for metal doors

35 mm 40 mm 45 mm



Backset for full leaf doors

65 mm



Technical drawings and accessories can be found from 19 onwards. Fittings can be found in the main security lock catalogue.

MOTOR CONTROLLED

MODEL 519



Model 519

Motorised multi-point lock for the business sector

The premium model 519 with multi-point locking meets all requirements in terms of comfort and security.

This version also meets all DIN EN 179 and DIN EN 1125 requirements security doors, fire doors, emergency exit and panic doors must comply with DIN EN 1125.

An electro-mechanical sequential control reliably prevents unintended extension of the bolt when the door is open.

Due to its continuous handle follower, the lock can be combined with internally with a door handle and panic bar and externally with a door knob.

The motorised multi-point locking constitutes a lock with integrated control electronics that enable

- access control
- intercom system
- time control

functions. Comprehensive lock signals can be activated and lock functions adjusted via an additional module UII (page 24).

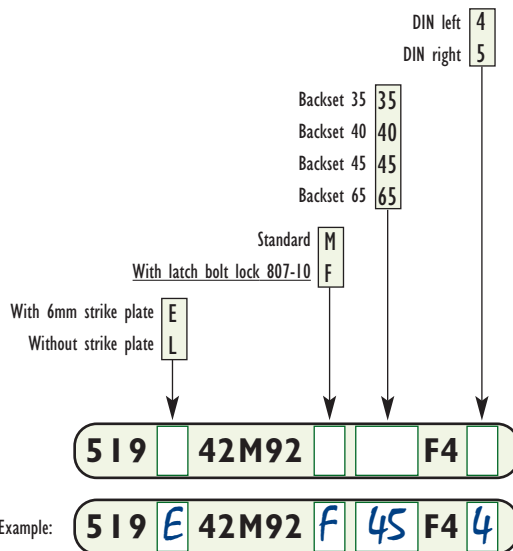
Distinctive features

- ▶ Suitable for fire doors
- ▶ WK4 intrusion protection achievable in suitable door systems
- ▶ Integrated Hi-O lock electronics
- ▶ Variant available with integrated escape door strike 331U in strike plate
- ▶ Variant available with integrated latch bolt lock 807 in face plate
- ▶ Can be expanded with 4th bolt
- ▶ Ideally suitable for combination with revolving door drives
- ▶ 3 solid lock bolts with 20 mm throw
- ▶ Mechanical automatic locking
- ▶ Panic function
- ▶ Use with front door furniture
- ▶ Continuously open function
- ▶ Optional Hi-O UII module for further functions and signals
- ▶ Strike plates also available as continuous 3 mm variants
- ▶ 3 mm 3-part strike plate variants available, see page 17

Combination options and order example

Model 519 with strike plate and integrated latch bolt lock 807-10 with 45 mm backset as DIN left variant.

All listed options can be achieved.



Model 519 – technical data

Backset	35, 40, 45, 65 mm
Distance	92 mm
Handle follower	9 mm
Certification	
DIN EN 1125	EC Conformity Certificate 0432 BRP-0017 13.06.2006
DIN EN 179	EC Conformity Certificate 0432 BRP-0001 13.06.2006
CE documents and further information	in Support Area at www.effeff.com
Suitable for fire doors	yes
Resistance to intrusion in compliance with DIN 18251-3	Class 5
Static latch load	5 kN
Static bolt load	10 kN
Bolt counterforce	6 kN
Bolt independence in case of manipulation	yes
Motor unlocking duration	1 sec.
Unlocking under preload for rated voltage, rated current	200 N

Electrical data

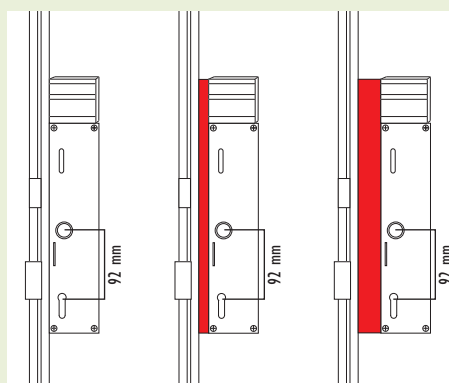
Stabilised rated operating voltage	24 V, max. 28 V
Rated current consumption	4 A, 1 sec.
Standby current consumption	25 mA
Current consumption with Hi-O module 901-IC-4	70 mA
Current consumption with Hi-O and FS module 519ZBFS	90 mA
Suitable current supplies:	
1002-24-2,5--00 IT power supply unit with wall bracket	2,5 A 1 sec. 4 A
1003-24-4----00 distributor installation / DIN rail	4 A, continuous current
1006-24020---00 emergency power supply	2 A 1 sec. 4 A
Approved cable length* when using:	
1002-24-2,5--00	10 m 0,25 mm ² (accessory Z19-KAB-----00)
1003-24-4----00	10 m 0,25 mm ² + 30 m 0,8 mm ²
1006-24020---00	10 m 0,25 mm ² + 30 m 0,8 mm ²

* Please choose connection cables with a wider cross section and shorten the accessory cable.

We can guarantee absolute functional safety at the recommended power supplies. On-site power supplies should be tested and approved by us.

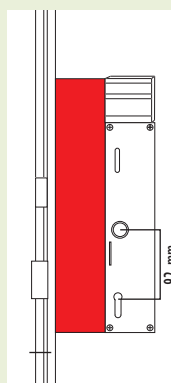
Backset for metal doors

35 mm 40 mm 45 mm



Backset for full leaf doors

65 mm



Technical drawings and accessories can be found from 19 onwards. Fittings can be found in the main security lock catalogue.

MOTOR CONTROLLED

MODEL 509E



Model 509E

The electromotor lock for the commercial sector

The motor lock 509E is the single locking version of model 519. (i.e. all characteristics and functions are identical to model 519.)

The 509E can be supplied with a 6 mm face plate, making it compatible with Models 519 and 819. The motor lock 509E can also be supplied with a 3 mm face plate, making it also compatible with

Model 809. The motor lock 509E constitutes a lock with integrated control electronics that enable

- access control
- intercom system
- time control

functions. Comprehensive lock signals can be activated and lock functions adjusted via an additional module UII (page 24).

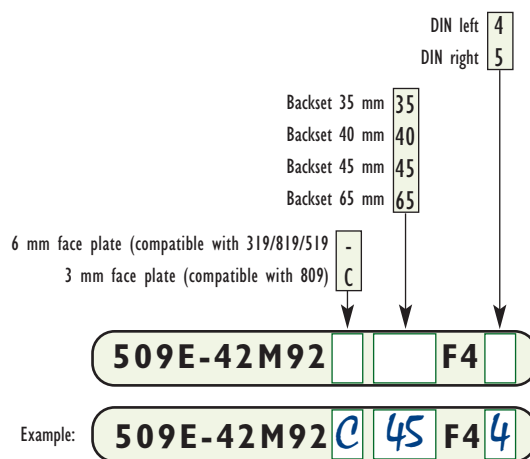
Distinctive features

- ▶ Suitable for fire doors
- ▶ WK2 intrusion protection achievable in suitable door systems
- ▶ Integrated Hi-O lock electronics
- ▶ Solid lock bolt with 20 mm throw
- ▶ Mechanical automatic locking
- ▶ Motor opening
- ▶ Panic function
- ▶ Use with front door furniture
- ▶ Combination with door automation
- ▶ Continuously open function
- ▶ Optional Hi-O UII module for further functions and signals
- ▶ 3 mm continuous strike plate variants also available, see page 17

Combination options and order example

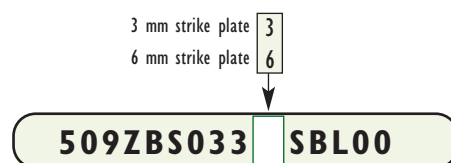
Model 509E with 6 mm face plate with backset 45 mm as DIN left variant.

All listed options can be achieved.



Suitable strike plates for Model 509E

Strike plate with 3 mm material:
Stainless steel
Strike plate with 6 mm material:
Chrome-plated steel



Model 509E – technical data

Backset	35, 40, 45, 65 mm
Distance	92 mm
Handle follower	9 mm
Certification	
DIN EN 1125	EC Conformity Certificate 0432 BRP-0017 13.06.2006
DIN EN 179	EC Conformity Certificate 0432 BRP-0001 13.06.2006
CE documents and further information	in Support Area at www.effeff.com
Suitable for fire doors	yes
Resistance to intrusion in compliance with DIN 18251-3	Class 5
Static latch load	5 kN
Static bolt load	10 kN
Bolt counterforce	6 kN
Bolt independence in case of manipulation	yes
Motor unlocking duration	1 sec.
Unlocking under preload for rated voltage, rated current	200 N

Electrical data

Stabilised rated operating voltage	24 V, max. 28 V
Rated current consumption	4 A, 1 sec.
Standby current consumption	25 mA
Current consumption with Hi-O module 901-IC-4	70 mA
Current consumption with Hi-O and FS module 519ZBFS	90 mA
Suitable current supplies:	
1002-24-2,5---00 IT power supply unit with wall bracket	2,5 A 1 sec. 4 A
1003-24-4----00 distributor installation / DIN rail	4 A, continuous current
1006-24020---00 emergency power supply	2 A 1 sec. 4 A
Approved cable length* when using:	
1002-24-2,5---00	10 m 0,25 mm ² (accessory Z19-KAB-----00)
1003-24-4----00	10 m 0,25 mm ² + 30 m 0,8 mm ²
1006-24020---00	10 m 0,25 mm ² + 30 m 0,8 mm ²

* Greater cable lengths can be achieved by shortening the accessory cable where the conveying wires have a larger cross section.

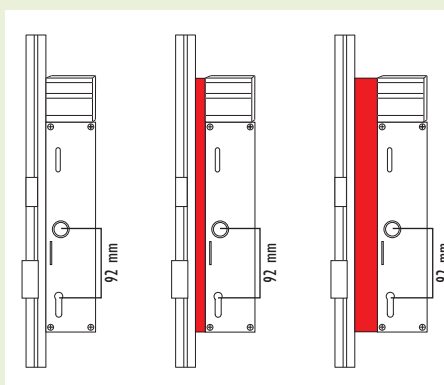
We can guarantee absolute functional safety at the recommended power supplies. On-site power supplies should be tested and approved by us.

Backset for metal doors

35 mm

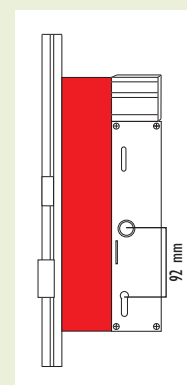
40 mm

45 mm



Backset for full leaf doors

65 mm



Technical drawings and accessories can be found from 19 onwards. Fittings can be found in the main security lock catalogue.

EVERYTHING EXPANDABLE

SAFETY LOCKS

331U escape door strike and 807 latch bolt lock integrated in Models 319, 519 and 819

All effeff multi-point locks can be expanded in the face and strike plate to incorporate reliable effeff escape door technology.

Panic locks are a familiar feature of doors along escape routes.

These locks frequently have an automatic locking function to ensure that these door designs are secure.

Building closures and external doors are normally manufactured with multi-point locks.

The combination of effeff multi-point locks, the 331U escape door strike and 807-10 latch bolt lock provide the ideal solution for securely locking a door which requires monitored control of accessing and transit in the escape route direction.

Not only legal regulations are not only met completely here.

The technically-best point for holding the door closed is obtained by mounting the 331U electrical escape door lock and the 807-10 latch bolt lock at shoulder level on the door.

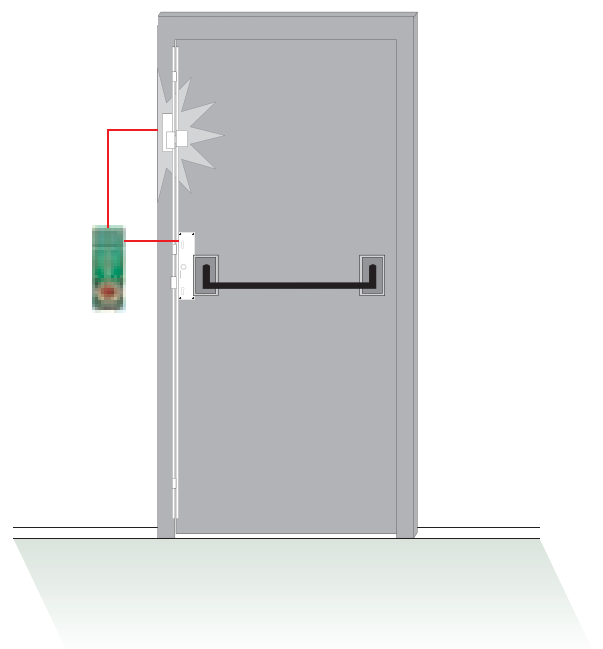


Distinctive features

- ▶ Optimum escape door strike position at shoulder level
- ▶ Intrusion attempts involving manipulation of the panic bar are prevented
- ▶ Optimum door control via locking cylinder/ terminal cylinder or access control
- ▶ Monitored entrance / exit
- ▶ All functions in a single lock / locking bar
- ▶ Reduced design, planning and installation expenditure

Note:

This version also meets all DIN EN 179 and DIN EN 1125 requirements security doors, fire doors, emergency exit and panic doors must comply with as well as requirements governing electrical door locks in rescue routes (EltVTR).



Technical drawings and accessories can be found from 19 onwards. Fittings can be found in the main security lock catalogue.

ORDERING SPECIFICATIONS

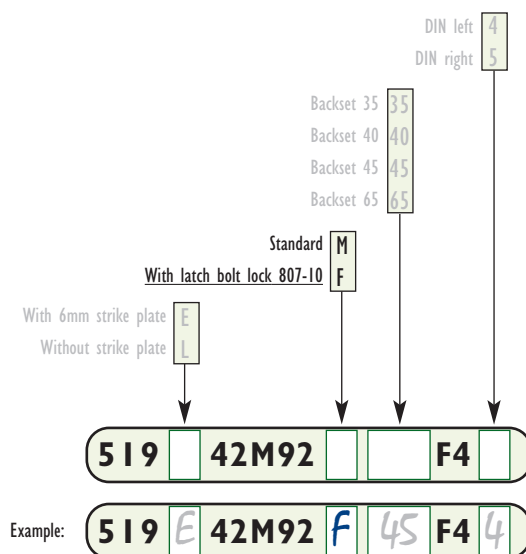
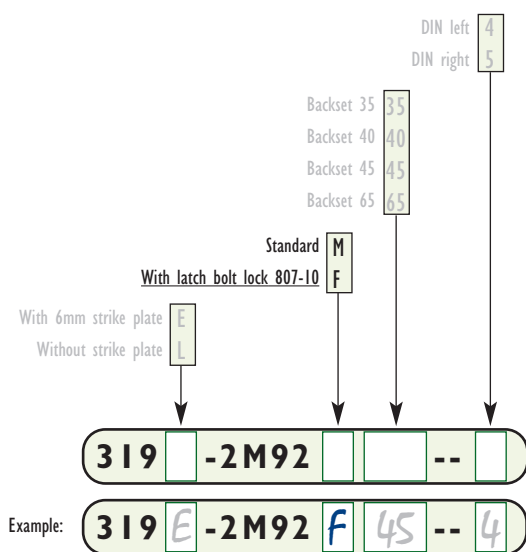
SAFETY LOCKS

Notes on ordering

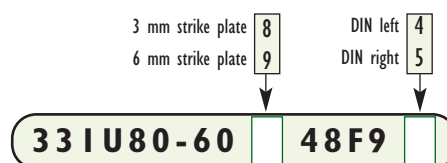
Explanation of the order number and its individual components.

Multi-point lock with latch bolt lock 807-10

The ordering suffix **F** should be entered instead of **M** when ordering a multi-point locking mechanism with an additional latch bolt lock (see examples below).

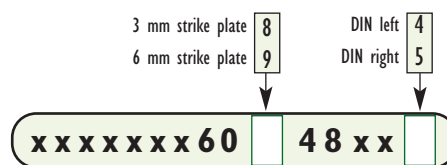


Strike plates suitable for these applications with integrated escape door strike 33IU



Alternative:

Loose strike plates with escape door strike 33IU keep

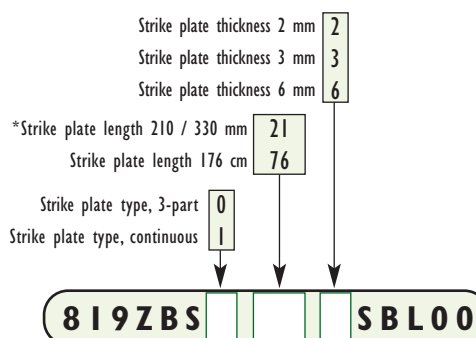


Suitable strike plates for model series 319 / 519

Strike plate with 2 mm material: Chrome-plated steel

Strike plate with 3 mm material: Stainless steel

Strike plate with 6 mm material: Chrome-plated steel



*Info on strike plate length:

210 mm on additional bolt, 330 mm on lock

Technical drawings and accessories can be found from 19 onwards. Fittings can be found in the main security lock catalogue.

QUADRUPLE SECURITY

SAFETY LOCKS

Extensions and strike plates

All multi-point locks can be extended and expanded through the addition of a 4th bolt. 270 mm, 350 mm and 550 mm extensions are available.

An additional 4th bolt is practical in the upper part of the door where doors are room height or exceed 2.5 m. This means that the otherwise unstable upper part of the door is also secured in the event of intrusion attempts.

Distinctive features

- Intrusion protection requirements can thus also be met where extremely tall oversized door systems are involved. The trend in modern architecture is towards full-height doors. Our extension system addresses this demand.

Height of oversized door

Application example
of extension for
a multi-point lock

Height of standard door

18

Extensions for model series 319 / 519 (same design as for model series 819)

270 mm	27
350 mm	35
550 mm	55

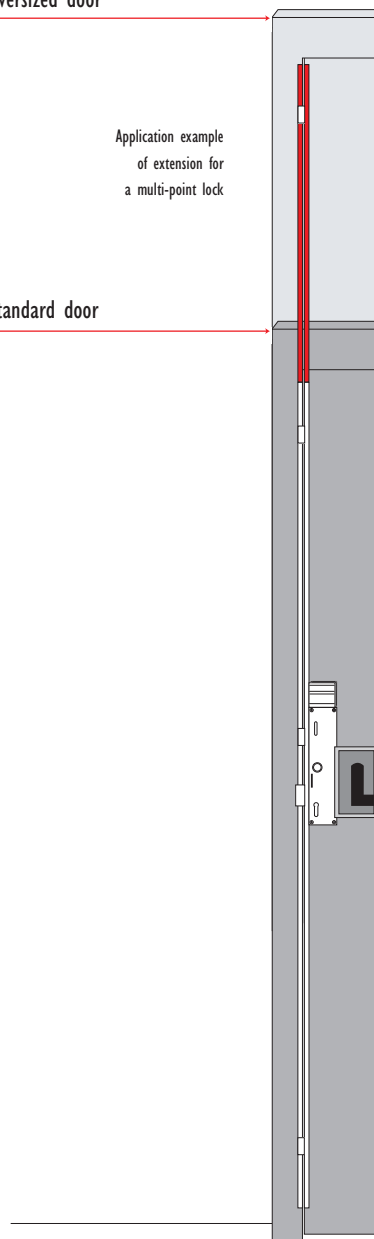
819ZBV0 ---000

Loose strike plates for the above-mentioned extensions

Strike plate thickness 3 mm 3
Strike plate thickness 6 mm 6

270 mm	27
350 mm	35
550 mm	55

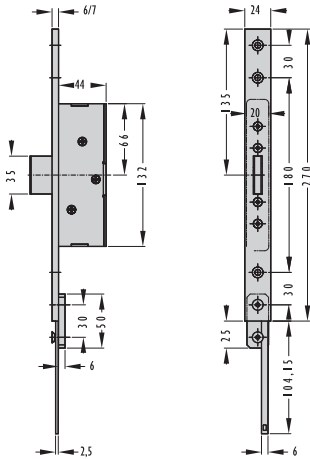
819ZBV0 SBL00



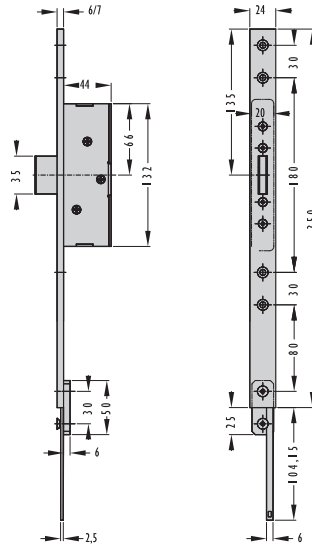
DIMENSIONED DRAWINGS

SAFETY LOCKS

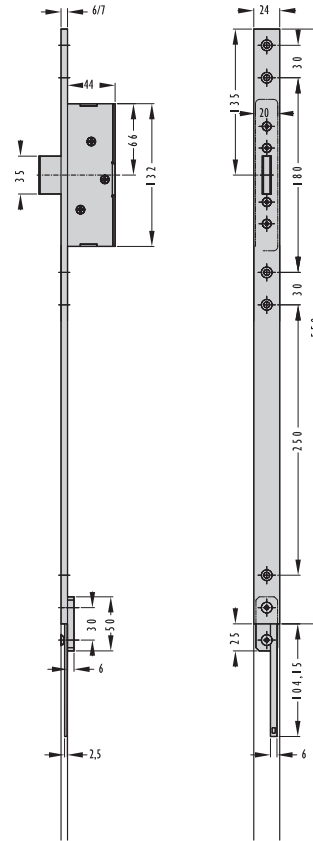
Additional bolt 270 mm



Additional bolt 350 mm



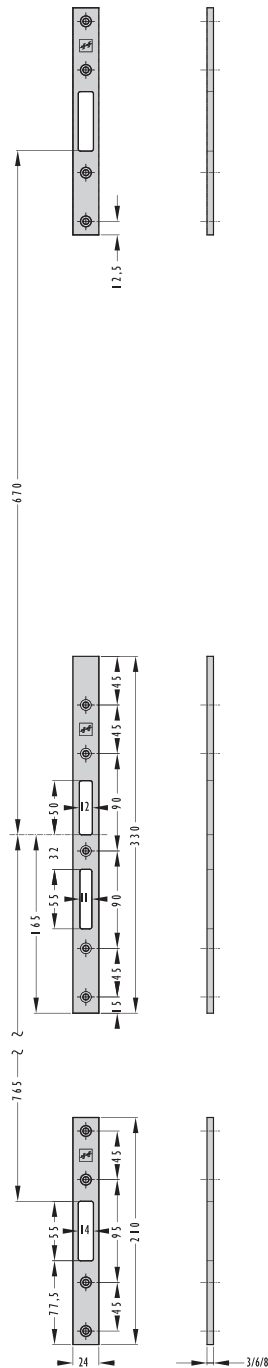
Additional bolt 550 mm



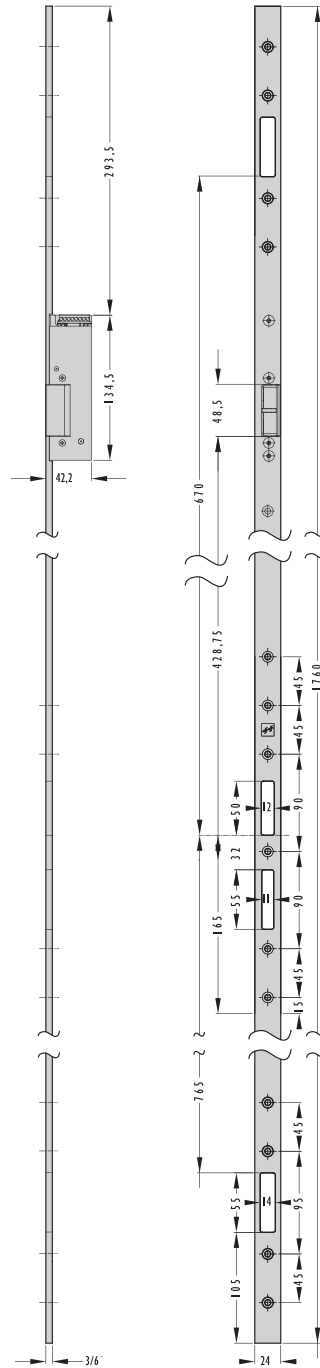
DIMENSIONED DRAWINGS

SAFETY LOCKS

3-part strike plate



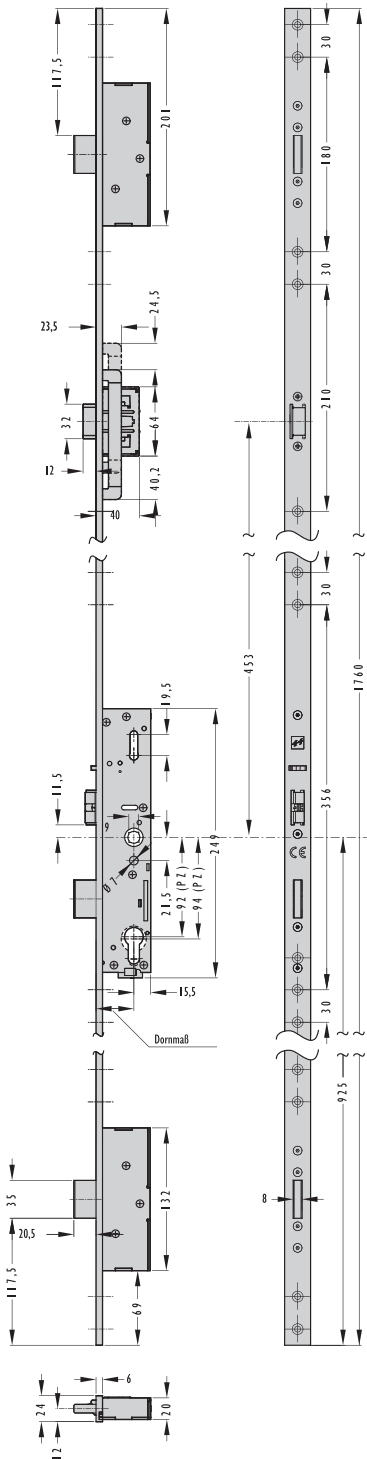
Strike plate with 33IU escape door strike



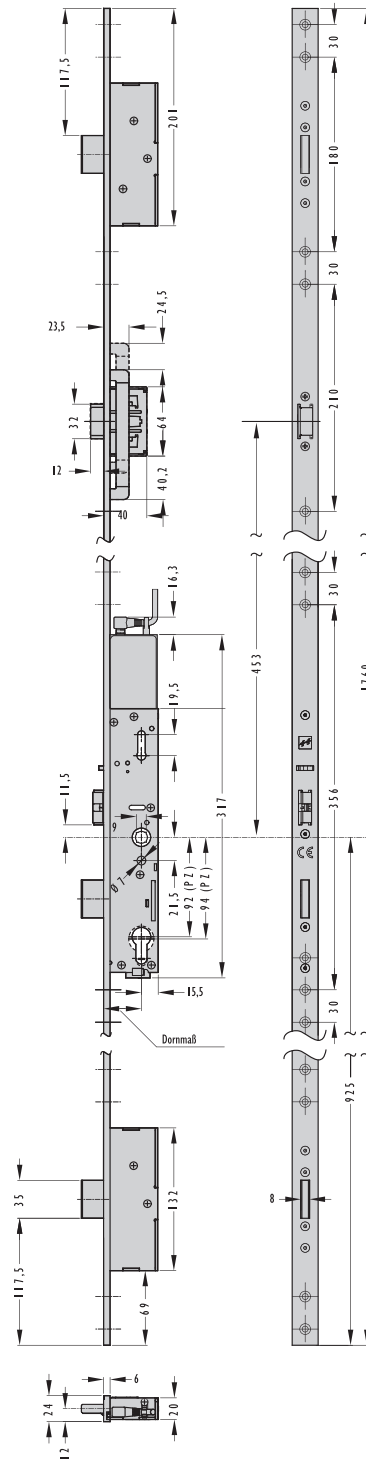
DIMENSIONED DRAWINGS

SAFETY LOCKS

Model 319 with 807-10 latch drop bolt



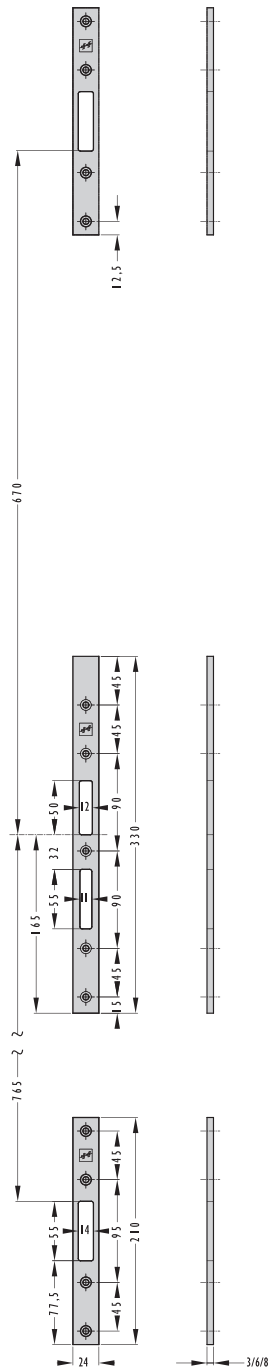
Model 519 with 807-10 latch drop bolt



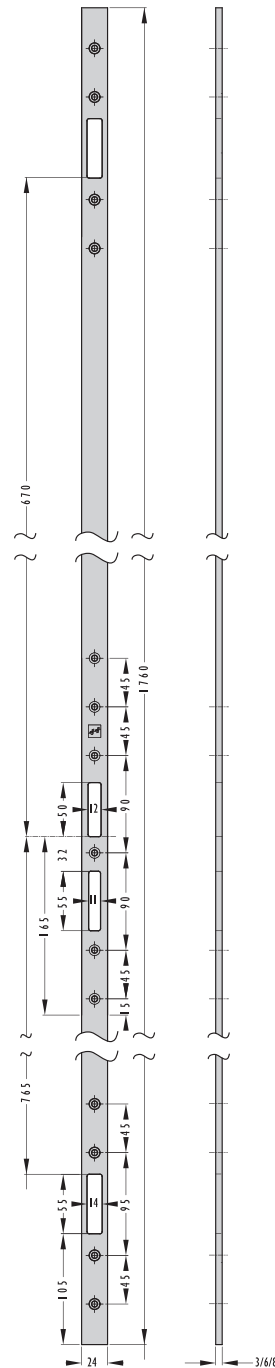
DIMENSIONED DRAWINGS

SAFETY LOCKS

Strike plate 3-part

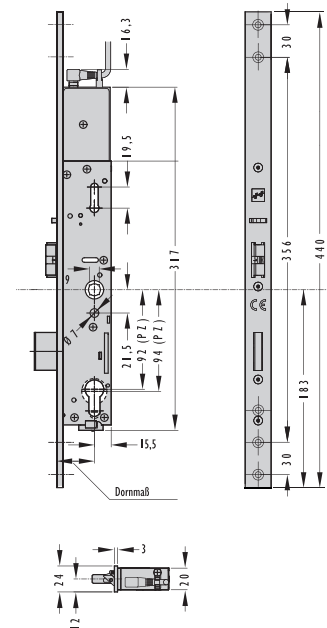


Strike plate, continuous



SAFETY LOCKS

Model 509E



ACCESSORIES

SAFETY LOCKS

Universal Interconnectivity Interface (UII)

The 519 motor multi-point lock and 509E motor lock are units with basic electronics. All basic functions necessary for operation and an Hi-O interface are integrated.

The UII 901-IC-4 is employed if further functions are desired (e.g. signal contacts, time settings, additional door contacts, etc.).

The lock electronics and UII 901-IC-4 communicate with each other via the Hi-O bus interface and the UII 901-IC-4 assumes control. The actuation lead in the lock can be deactivated if the UII module is used. All actuation and control functions are then realised via the BUS connection. This eliminates the possibility of electrical manipulation of the system via the connection cables.

The following signals and settings can then be realised:



Signals via floating contacts

- ▶ Relay status via LED display
- ▶ Alarm
- ▶ Revolving door drive actuation
- ▶ Door handle / Profile cylinder status
- ▶ Door open / closed
- ▶ Locked

Settings

- ▶ Unlocking duration 2-28 sec.
- ▶ Scan function
- ▶ Toggle function
- ▶ Rescue route function
- ▶ Access control function

Additional inputs

- ▶ Door contact
- ▶ Enable
- ▶ Smoke alarm
- ▶ Fire alarm system
- ▶ Smoke alarm reset

Order no.

901-IC4-----00

Fire barrier module

In addition to the UII 901IC-4, the 519ZBFS fire barrier module is also required where motor locks are used on fire doors.

Both modules ensure that, in the event of fire or a power failure, the motor lock can switch from every function to the locked condition and the door can fulfil its fire retarding role. The panic function can, of course, still be utilised with the handle or panic bar.

An on-site fire alarm or smoke alarm can be connected for smoke detection (e.g. the Model 60 030).



Order no.

519ZBFS-----00

Cable transitions

The new effeff range of cable transitions is distinguished by the implementation of innovative ideas in robust effeff quality.



Order no., short

10312-----10

Order no., long

10312-----20

Concealed cable transition installation system for wooden, metal and plastic profiles.



Order no., short

10314-----10

Order no., long

10314-----20

Terminal plug-in concealed cable transition. Installation system for wooden, metal and plastic profiles



Please refer to our individual brochure for a complete overview of our new cable transition range.

Power supply units

Two power supply units are provided:



Power supply unit

IT stab. 2.5 A with wall bracket

We recommend the power supply unit IT stab. 2.5 A with wall holder for installation of the unit in the immediate vicinity of a door. Max. permissible cable length lock — power supply unit: 10 m. Installation possible in suspended ceilings or hollow profiles using the wall bracket provided.

Order no.

1002-24-2,5--00



Power supply unit

DIN rail mounting stab. 4,0 A

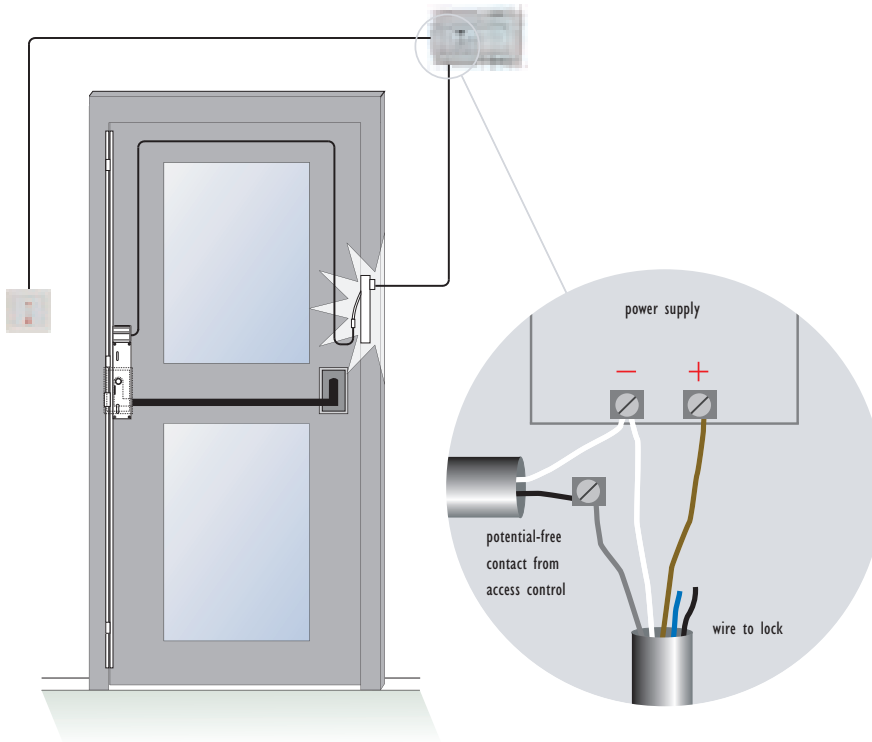
The power supply unit for DIN rail mounting stab. 4,0 A is suitable for installation in electrical distributors. Max. permissible cable length lock — power supply unit 10 m + max. 30 m, min. Ø 0.8 mm.

Order no.

1003-24-4----00

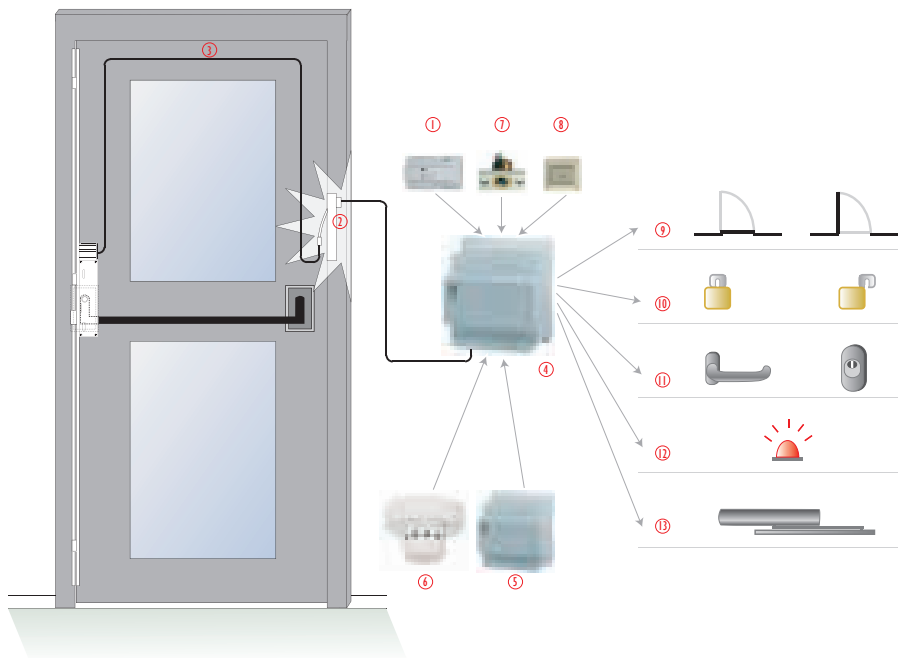
SYSTEM ILLUSTRATION

SAFETY LOCKS



Straightforward wiring

Activation of the main function (unlocking) via a switch, access control or building services management system merely requires the +/- power supply (brown/white) and connection of the actuator via the signal (grey).



Expansion stage with HI-O module

A variety of status displays can be achieved if the HI-O module is used and connected to the lock via the bus interface. It is also possible to connect other components that a modern function door requires.

Status displays

Functional status as floating relay contact display on UII PCB via LED

9 Door CLOSED

10 Lock is locked

11 Handle or cylinder contact

12 Alarm

13 Revolving door drive actuation

Components

1 power supply unit, controlled	1003-24-4---00
2 concealed cable transition	10312-10---00
3 Connection cable for 519	Z19-KAB-----00
4 HI-O UII Universal Interc.	901-IC-4-----00

Accessories

5 Fire barrier module	519ZBFS-----00
6 Optical smoke alarm	60030-----00
7 Door contact, optional	10405.11R---00
8 Switch, access control or building services management system	

ORDER FORM

ORDER FAX +49 7431 123-258

Company Business sector E-mail

Contact person Telephone Fax

Street/post code Customer no.

Post code/Town or city Order date

Checklist for your order

Here are all the necessary components once more at a glance:

- ▶ Security lock
- ▶ Strike plate
- ▶ Connection cable
- ▶ Power supply unit
- ▶ Ull module
- ▶ FH module
- ▶ Extension for 4th bolt
- ▶ Cable transition
- ▶ Rescue route lock

[illegible]

Urgent orders can also be placed by e-mail.

As a proven supplier of door release systems, effeff is known for making reliable, rapid deliveries.

In this connection, we offer two methods of ordering. You can fax us the completed form or send us details of your requirements by e-mail at the following address: **export@assaabloy.de**

Quotations and deliveries are made in accordance with our Conditions of Sale and Supply.



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ASSA ABLOY
Sicherheitstechnik GmbH
Bildstockstraße 20
72458 Albstadt
GERMANY
Tel. +49 7431 123-0
Fax +49 7431 123-240
albstadt@assaabloy.de
www.assaabloy.de



effeff, established in 1936 as a precision engineering and electrical engineering workshop, has developed into the global market leader in the field of electromechanical locking device technology through the implementation of a consistent product policy. Electric strikes, electric bolts, safety locks, access control systems, electric sheer magnets, rescue route technology, revolving door drives, arrester systems for fire barriers and control elements are among the products that effeff, based in Albstadt in southern Germany, currently exports to 75 countries around the globe.

IKON, established as ZEISS IKON in 1926 is one of the leading manufacturers of locking cylinders, locks and locking systems in Germany. Our products and solutions are manufactured to state-of-the-art technological standards and have included mechatronic locking cylinders, escape door technology, door fittings and closers, as well as numerous auxiliary locks and securing devices for some time now. They protect both people and valuables.

ASSA ABLOY Sicherheitstechnik GmbH. The IKON and effeff brands have been developed, produced and marketed in one merged company since 2005, with both product ranges complementing each other perfectly. This enables us to offer our customers comprehensive and complex system solutions for private, commercial and public service applications.

ASSA ABLOY is the world's leading manufacturer and supplier of locking system solutions and associated products. Our aim is to meet and exceed customer expectations in terms of safety, security and convenience. The group has a workforce of approximately 30,000 employees generating an annual turnover of 3 billion Euros.