

eCLIQ



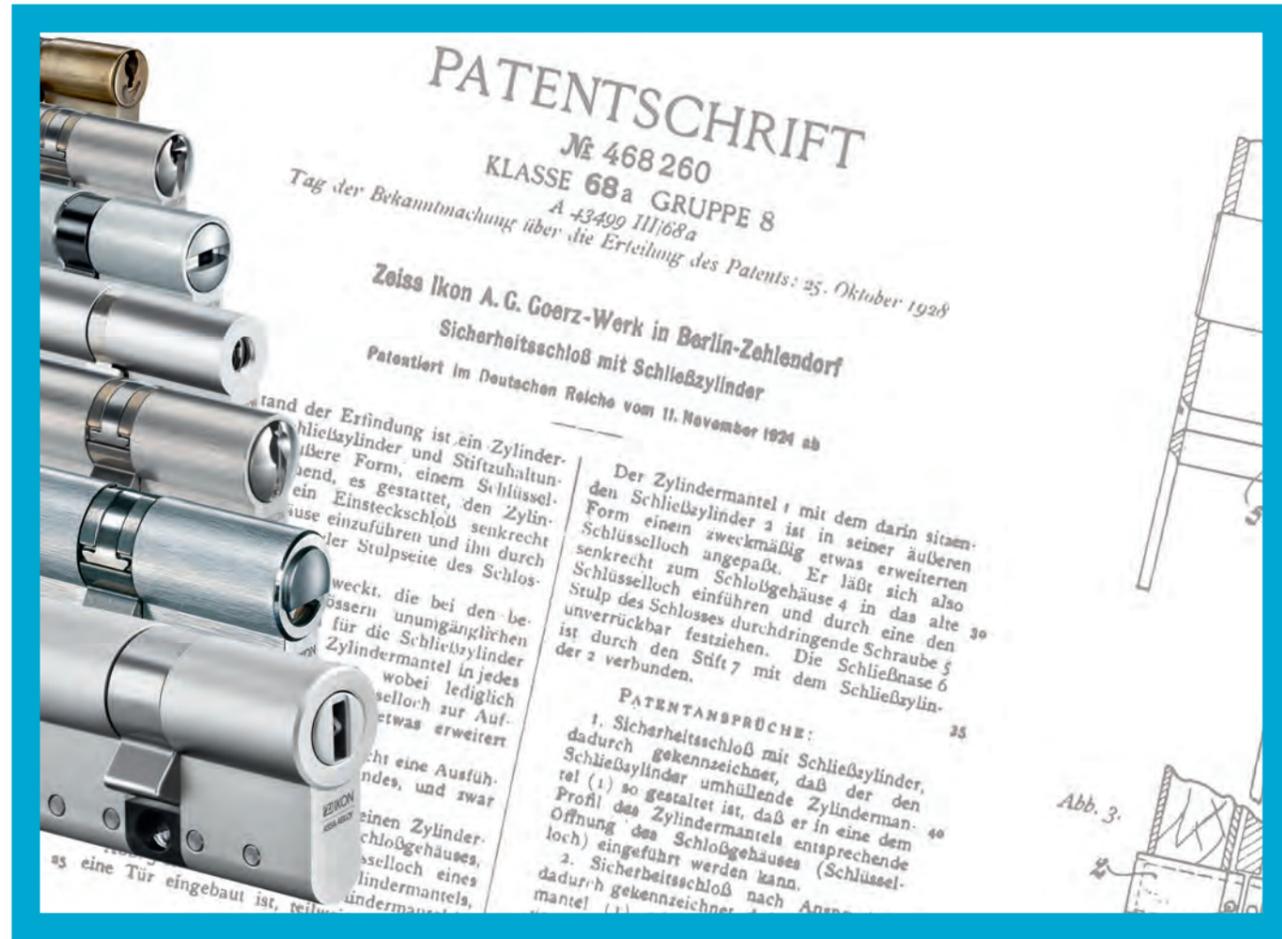
The key to electronic locking



IKON – The locking systems specialist since 1926

ASSA ABLOY, the global leader  
in door opening solutions

Our invention and expertise – IKON is the original and the company has shaped developments in lock and security technology for over eighty year



Since inventing and patenting the profile cylinder over eighty years ago, IKON locking cylinders have been setting standards in many countries throughout the world. When the patent was granted, it gave rise to the age of the so-called security cylinder. This is a legacy which we are committed to and which we are proud of.

The profile locking cylinder is almost always used wherever doors are locked and need to be secured against unauthorised entry. Today, this cylinder represents the key component in lock and door security systems. We are still supplying keys and lock cylinders today for locking systems which were installed as far back as eighty years ago.

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*Implemented according  
to customer wishes:  
eCLIQ, a new generation  
of electronic locking system*

## An IKON-brand locking system is always tailor-made – planned by professionals and customised to your needs

A locking system is always a unique affair. No locking system is ever the same as any other. A multitude of different factors already play a role at the needs analysis and planning stage. This includes the concrete requirements, the size, structure and use of the building and/or facilities. Last but not least, the locking system must be open and flexible with regard to accommodating any future requirements.

Convenient software packages are available for the planning and later management of an eCLIQ electronic locking system. Needless to say, help is also provided by our certified CLIQ specialist partners. Regardless of individual requirement profiles, one thing is certain: you will always make the right choice with an IKON locking system. With eCLIQ, such a choice becomes something quite special.

### Questions you need to answer before the planning stage:

- How is your building used?
- What is your organisational structure like?
- How strict are your security requirements?
- What other requirements need to be satisfied? - For instance, with regards to insurance.
- Are frequent changes expected? - For instance, with regard to access authorisations and restructuring.
- How should your locking system be used?

### Locking system planning step by step:

- Individual needs analysis
- Design of macrostructure
- Drafting of an organisational chart
- System checked and accepted by users, client, architects and planners
- Design of locking plan
- Locking plan checked and accepted by users, client, architects and planners

## eCLIQ – the entirely new electronic locking system: An innovation with time-tested technology



The entirely new eCLIQ electronic locking system is based on the proven CLIQ technology from ASSA ABLOY used worldwide. In small as well as extensive and complex locking systems, building operators and users have valued the benefits of CLIQ mechatronic systems for many years.

The core of the new, purely electronic eCLIQ locking system is the unique, innovative locking cylinder technology. With its setup and its struc-

ture, the eCLIQ locking cylinder offers a measure of compactness and security never achieved until now.

The eCLIQ key is likewise a true innovation with considerable resilience in an exceptional, distinct design. Equipped with a chip of the latest generation, the entire eCLIQ system is faster, more powerful, more secure and more efficient than conventional locking systems.

A secure investment: The eCLIQ locking convinces in a variety of applications.

### Only eCLIQ can offer you this!

*The eCLIQ electronic system is an entirely new development in the international market for locking systems.*

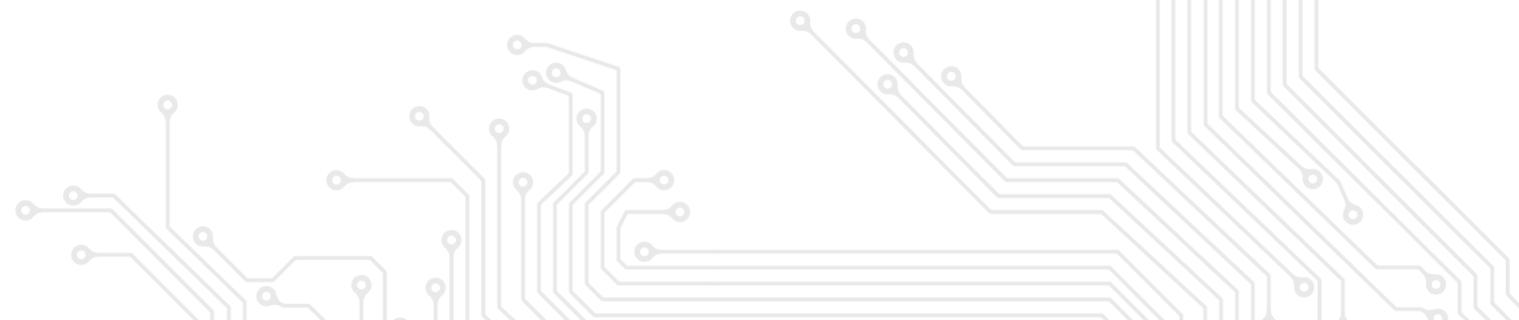
*This applies in terms of the technology, design and user-friendliness. Since numerous customer requests from a wide range of industries were factor into the development of eCLIQ, the system is user-oriented throughout and offers numerous advantages down to the smallest detail.*

### eCLIQ always fits!

*The eCLIQ system is generally suitable for the design of locking systems of all sizes and for all types of properties. However, its specific features makes it especially interesting for specific areas of use.*

#### Some examples

- **Supply, infrastructure and industrial companies:**  
*In addition to its flexibility, the resilience and durability of eCLIQ are especially advantages and cost-efficient in these applications.*
- **Museums, galleries, event venues:**  
*Due to the compact design of the locking cylinder and the available lengths starting from 28 mm per side, it can be integrated design-oriented doors and surroundings without overlap.*
- **High-usage doors and key switches** (such as for car park entrances): *With their durable design, the cylinders are maintenance-free up to 200,000 cycles, making eCLIQ especially well-suited for this application.*



# eCLIQ: The key to electronic locking

More durable, more secure and more efficient than conventional locking systems

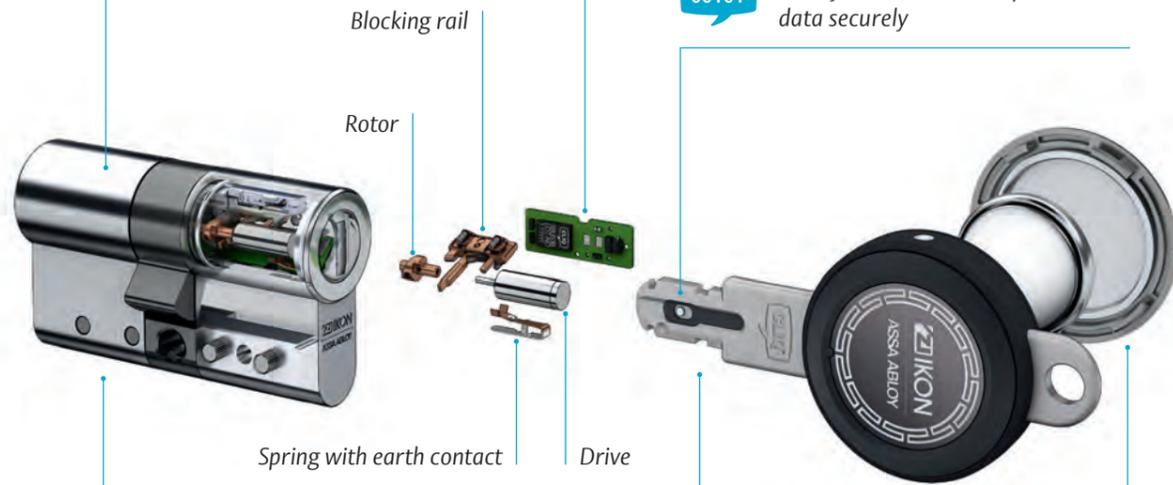
A completely electronic locking system, eCLIQ is based on the mechanical precision and microelectronic modules of ASSA ABLOY's CLIQ® technology. Secure, reliable and uncomplicated, the powerful microelectronics in the programmable water-

proof key and compact electronic locking cylinder together provide the strongest possible security. eCLIQ solves the problem of lost keys. As each key is individually programmable, access rights can easily be deleted leading to higher security.

Cylinders are easy and quick to install, no cabling is needed

New, future-proof CLIQ® chip generation with AES encryption and rapid processing speed with efficient energy management.

The electronic contact between keys and cylinders transmits power and data securely



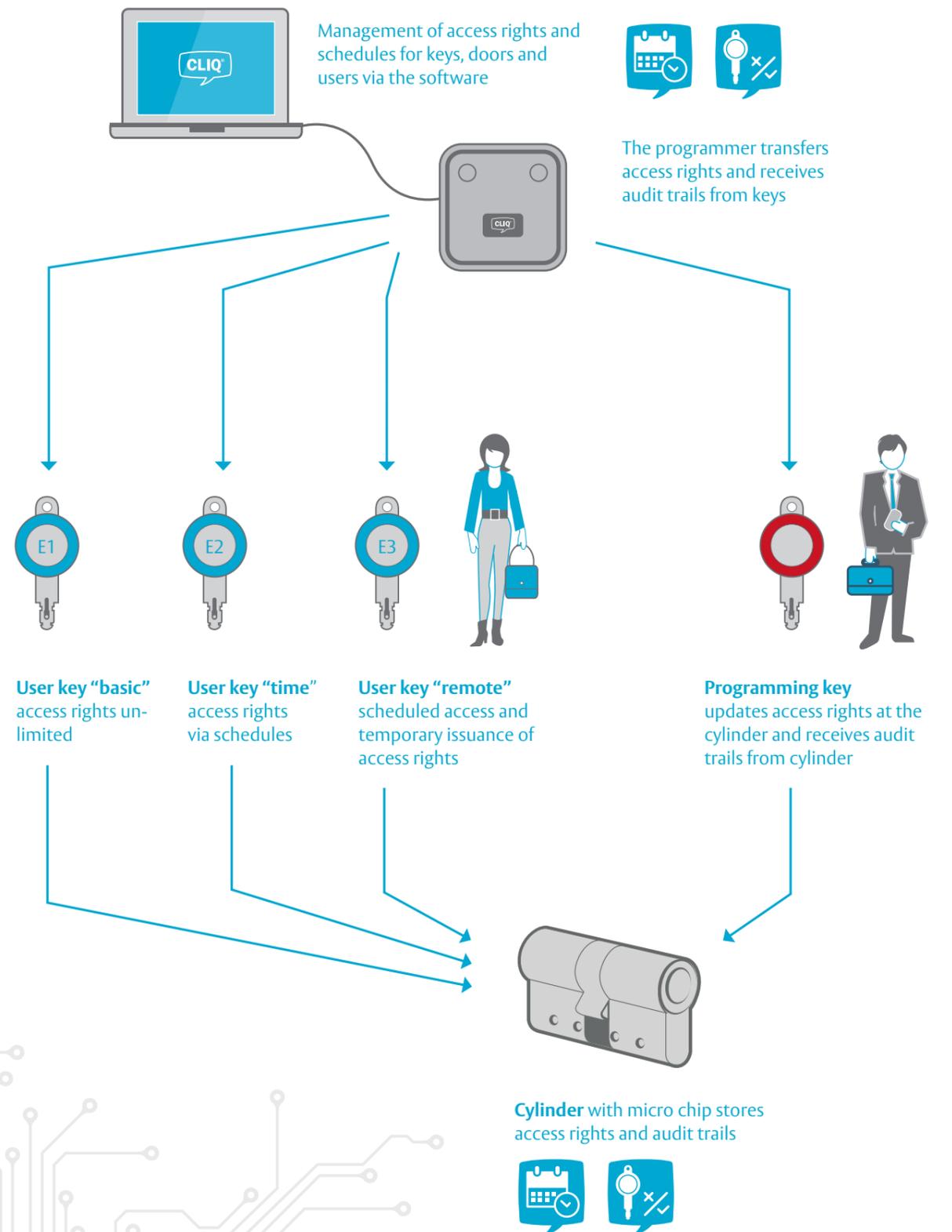
Keys and cylinders can be programmed with flexible access rights and schedules

Water and dust-tight key head with battery and electronic board  
Fast, easy standard battery replacement in the key – no need for tools

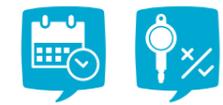


# Managing the eCLIQ system

Maximum flexibility to assign and revoke access rights



Management of access rights and schedules for keys, doors and users via the software



The programmer transfers access rights and receives audit trails from keys

User key "basic" access rights unlimited

User key "time" access rights via schedules

User key "remote" scheduled access and temporary issuance of access rights

Programming key updates access rights at the cylinder and receives audit trails from cylinder

Cylinder with micro chip stores access rights and audit trails

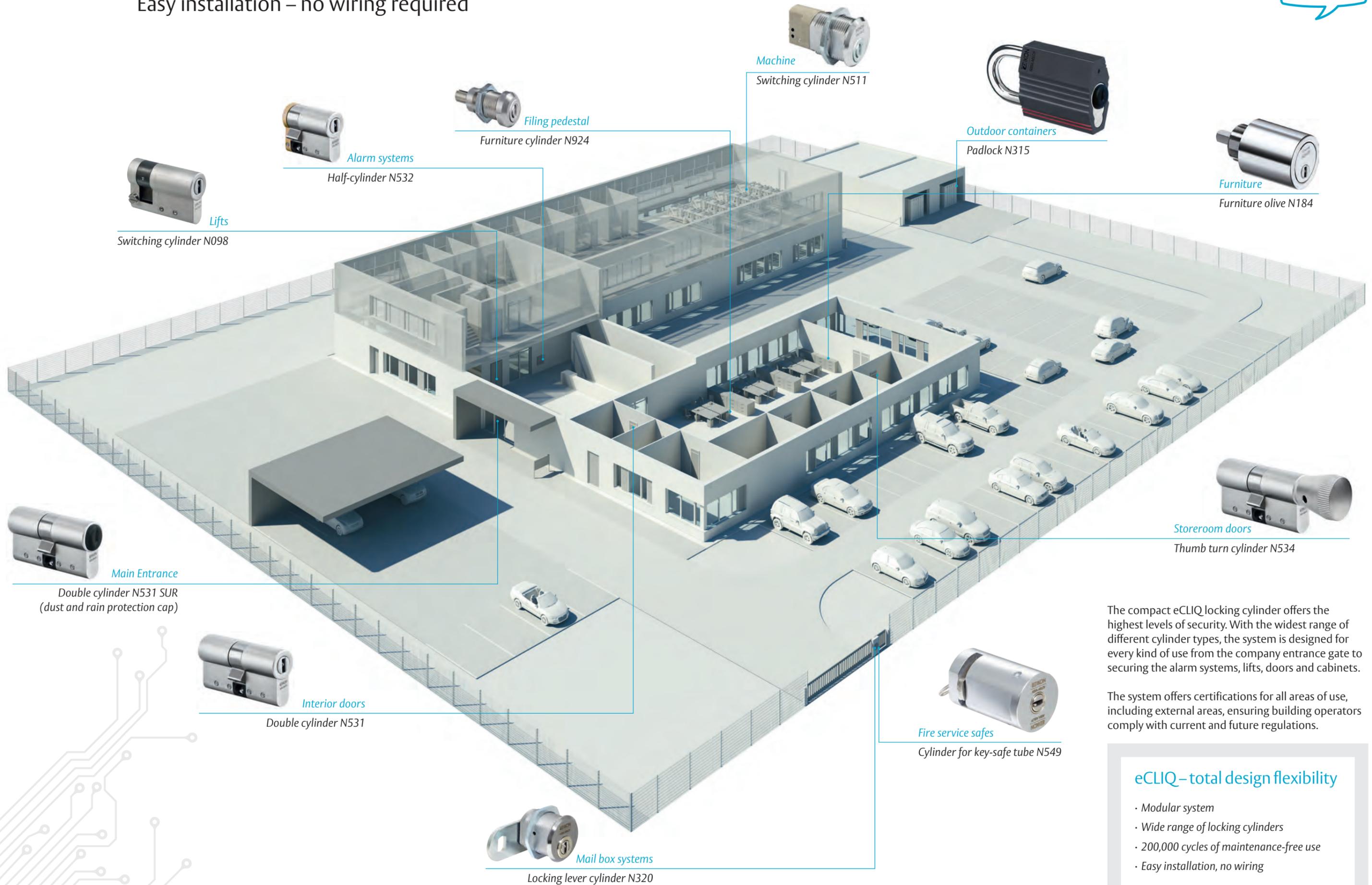




Simply electronic:  
eCLIQ offers the greatest  
possible flexibility for the  
issuance of authorisation  
and for reprogramming.

# eCLIQ fits everywhere

## Easy installation – no wiring required



The compact eCLIQ locking cylinder offers the highest levels of security. With the widest range of different cylinder types, the system is designed for every kind of use from the company entrance gate to securing the alarm systems, lifts, doors and cabinets.

The system offers certifications for all areas of use, including external areas, ensuring building operators comply with current and future regulations.

### eCLIQ – total design flexibility

- Modular system
- Wide range of locking cylinders
- 200,000 cycles of maintenance-free use
- Easy installation, no wiring

# The eCLIQ locking system in action

## Designed to deliver maximum flexibility and enhanced security for any organisation



Staff changes, short-term employment contracts and partnerships with external companies, are all part of day-to-day operations. Lost keys can easily find their way into unauthorised hands.

The eCLIQ locking system overcomes the challenge of constantly changing access rights. For maximum flexibility and convenience combined with the highest security, eCLIQ is the logical solution.

More durable, more secure and more efficient than conventional locking systems, eCLIQ provides enhanced protection for all sizes and types of property delivering the greatest flexibility in the issuance of access rights.

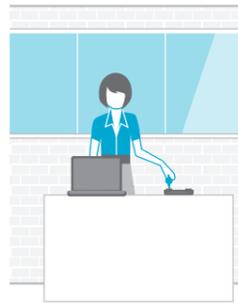
### Examples

Administration on the go



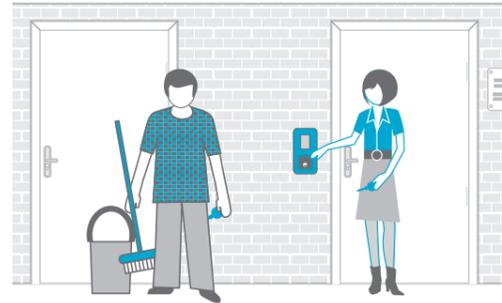
The administrator can manage the system via the CLIQ® Web Manager, anytime, anywhere – the only requirement is Internet access.

Administration on site



The receptionist programmes and supervises the issuance/return of the visitor key (E3-remote) with the CLIQ® Web Manager.

Employee on site



For doors with a lower security level, users such as cleaners can have access with no time limitation (E1 key).

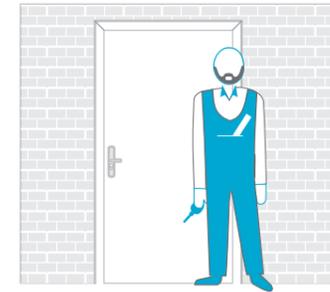
For doors with a high security level such as the entrance, access rights for the user keys (E2 or E3) are updated daily from the wall programmer. If a key is lost, access is denied after 24 hours ensuring higher security.

Employee on the go

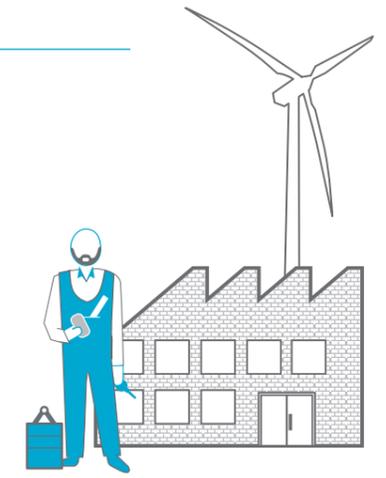


An employee loses her key and informs the administrator. The administrator revokes the access rights of the key in the software and updates the cylinders, quickly solving the problem.

Employees or contractors on site or out in the field



Security staff use CLIQ® Web Manager and the programming key at a different location to modify authorisations for the locking cylinder.



For remote locations, users can receive time-limited access rights with their keys (E3) using the mobile programmer and mobile phone.





# ARCHIV 2

Especially suitable for sensitive areas: eCLIQ with the latest chip generation for a high degree of encryption, protection against manipulation and electronic attack

## eCLIQ system components

### Keys

- Compact key design ensures stability for problem-free, long-lasting operation
- Reversible key: Always fits, regardless of which direction it faces when inserted in the cylinder
- Optical and acoustic signaling for access entitlements, time zones and battery status
- Protected against temporary immersion in water (IP67)
- Available in three versions (E1 basic, E2 time and E3 remote)
- Integrated standard battery (CR2032 lithium cell) for approximately 30,000 cycles (service life of approx. 3 years). Battery replacement does not require tools.

### Programming key

The red programming key is used to transmit changes in authorisation and event logs between the software and locking cylinders. The key also authorises the use of the software.



### User key E1, E2, E3

**E1 basic**  
for simple access authorisations, programming only for Desktop programmer

**E2 time**  
with time-restricted access authorisations and event logs

**E3 remote**  
with time-restricted access rights and event logs plus temporary issuance of access rights

### User key "Beluga"

Designed for use in outdoor installation (-30°C to +50°C), for example, storage in the fire service safe.



### User key "Ex"

User keys are optionally available for use in potentially-explosive areas in Zone 1 (II 2G Ex ib IIB T4)



## eCLIQ system components

### Cylinders



- High-security protection against manipulation and intelligent break-in attempts
- Integrated microchip for storage of locking authorisations and event logs
- Use in environments with demanding ambient conditions (Temperature range: -25°C to +85°C)
- Maintenance-free up to 200,000 cycles (includes integrated lubricant reserve)
- Central key channel and low core overlap for problem-free installation in combination with security fittings and other locks
- Optional enhanced drilling protection
- Emergency mechanism with user key



### Cylinder

The cylinders automatically register all programmed access entitlements.

#### Authorisations

1,000 memory cells for individual keys and groups (each containing over 65,000 keys)

**Locking functions**  
up to 1,500 keys

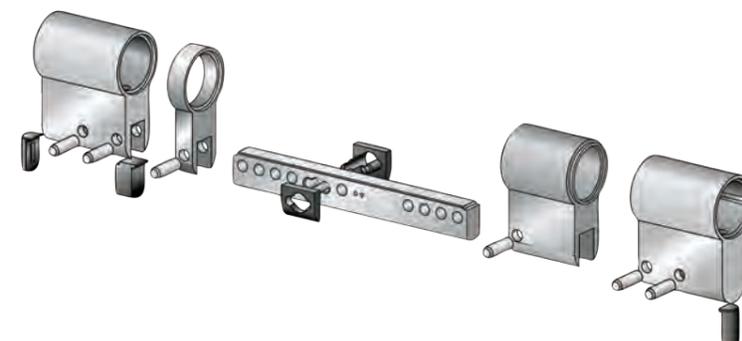
**Event memory**  
up to 750 events

**Optional dust and rain protection cap**  
Outdoor cylinders designed for all weather conditions, e.g. on radio masts. The cap ensures IP55 and fits all cylinder types.



#### eCLIQ also available with transponder

Key with integrated RFID chip for integration into control of transponder-based systems, e.g. access control systems.



#### Flexible modular system

Euro Profile cylinders in lengths starting from 28 mm per side. Standard lengths of 60 mm can be extended in 5 mm increments up to a total length of 120 mm. Special lengths are also available up to a total length of 240 mm.

## eCLIQ system components

### Management software

eCLIQ system offers two management software versions for programming and management of access rights and schedules for keys, doors and users.



#### CLIQ® Manager

- One / or several eCLIQ locking systems
- User-friendly MS Outlook-based menu structure
- Clear list of users, keys and cylinders
- Locking authorisation setup and changes
- Function shown in matrix lock chart or door plan view
- Import functions for users and locking system data for key and cylinder audit trail
- Supports working with several programmer keys
- Hardware/Software requirements: MS Windows compatible PC, Pentium IV-1, 5 GHz, 50MB free hard disk memory, 512 MB RAM/ MS Windows 8 and 10

**PC application**  
Desktop version



#### CLIQ® Web Manager

- Internet application for multiple administrators, used on the client through a standard web browser accessed by the client
- Ideal for managing very large locking systems as well as locking systems spread out over multiple locations
- Enhanced search functions, intelligent assignment and filter functions
- Improved design and “step-by-step” user guidance (requires less training)
- Simple installation and administration through platform-independent design
- Central server and data storage completely network-compatible client/server design – ASSA ABLOY offers Software as a Service Hosting
- Web service interface (. Xml) for communication with third-party applications
- Network connections, 128-bit SSL encryption plus the security afforded by software certificates on client and server

**Web Application**  
System Management  
from any location

## eCLIQ system components

### Programmer



The programmer permits changes to times and authorisations (depending on key type) as well the read-out of audit trails.



#### Desktop programmer

- Communication interface for secure data transmission between CLIQ® Manager and programming key
- Programming of user keys and reading station for the audit trail memory in the user key
- Access rights in the software (e.g. time zone, summer/winter time) are uploaded to the user keys and programming key
- USB port

**Desktop Programmer**  
Used locally and centrally



#### Wall-mounted programmer

- Programming of temporary access of user keys (e.g. valid for 24 h)
- Programming tasks run automatically with optical and acoustic signals
- Power supply via 12 – 24 V mains connection or “Power over Ethernet”
- Outdoor version for areas required to be vandal proof (protection rating IP65 and IK09 – vandal proof)
- Mini USB connection for data exchange over cable
- Waterproof (protection from drips)

**Wall-mounted programmer**  
Used locally and de-centrally  
(e.g. at entries)



#### Mobile programmer

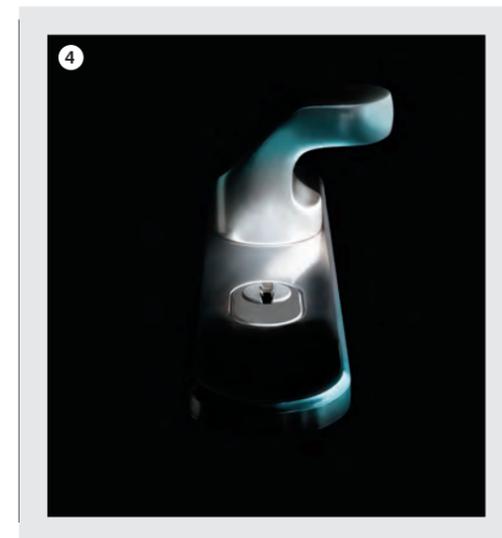
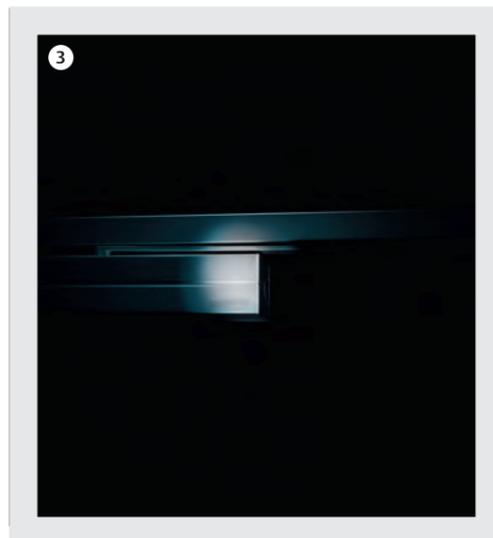
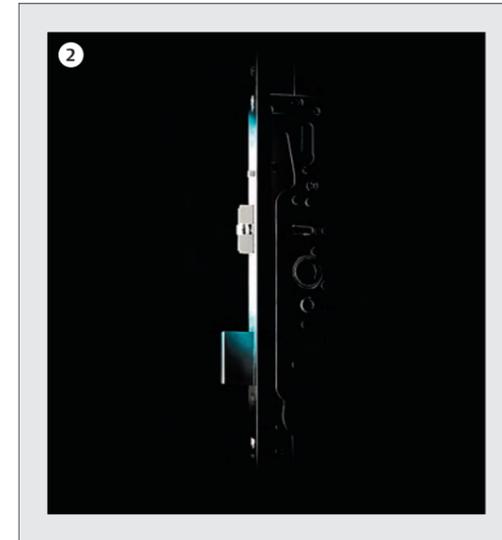
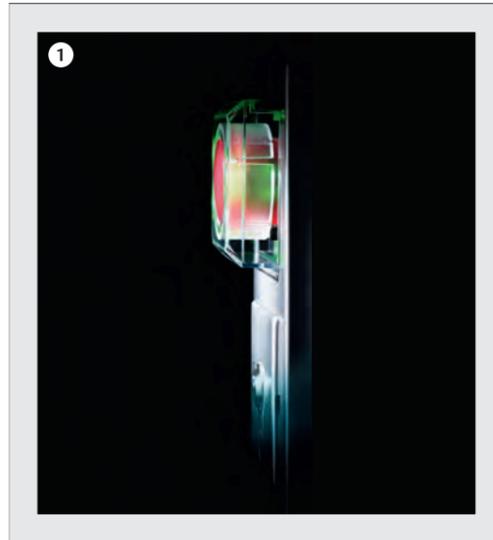
- Permits changes to times and authorisations for user keys (E3) as well as the read-out of audit trails
- Receives programming changes to the user key via mobile or PC
- Acoustic and optical signals for operating status and activity progress
- Data transfer to the mobile via Bluetooth and to the PC via USB, no software installation on the mobile programmer
- Power supply from standard batteries
- Mini USB connection for data exchange over cable
- Waterproof (protection from drips)

**Mobile programmer**  
Location independent  
and used directly at  
the key carrier

## Much more than a locking system: integrated security technology for the whole building

Whether for companies, institutions, government agencies, industrial premises or administration buildings, you can always completely rely on IKON security technology. When installing a new locking system, it's exactly the right moment to consider security equipment which offers more than just access control. IKON door fittings protect against attacks on locking cylinders and mortise locks and fit securely into the leaf of your door. ASSA ABLOY also has a highly effective system solution for automatic door closing in its product range. The modular system structure enables a multiplicity of model variations in identical housing and thus uniform design.

- 1 Escape route technology for emergencies: the effeff Escape Door Terminal 1385 can be seamlessly integrated into switch ranges by well-known manufacturers of electrical installation and intelligent building control systems.
- 2 Security locks
- 3 Door closers
- 4 Protection fittings



ASSA ABLOY door closers offer easy access through perfectly regulated closing and opening forces.

With their anti-panic function and self-locking system, effeff security locks also guarantee maximum mechanical security combined with maximum convenience for users. If you also wish to provide for emergency situations, effeff brand escape route technology offers an ideal solution. Your new locking system is thus given a few extra dimensions and will bring comprehensive added benefits, which will prove to be a worthwhile investment, not only in the event of a burglary.

## An aid to better understanding: our brief glossary on locking cylinders



### · Drilling protection

Increased drilling protection in security category 2 can be supplied to meet special locking system security requirements.

### · Installation lengths

The basic length of a double profile cylinder is generally 60 mm (L = 30/30). Besides standard lengths which can be extended in 5 mm increments up to a total length of 140 mm, special lengths are also available up to a total length of 240 mm.

### · DIN class



German Institute for Standardization (DIN) security classification. All eCLIQ locking cylinders comply with DIN EN 1303/ DIN 18252. These

standards, which define the requirements for high-grade locking cylinders, cover measures such as key control as well as protection against lock picking, decoding, key copying, drilling and core extraction.

### · Explosion protection



eCLIQ locking cylinders and keys are suitable for use in potentially explosive atmospheres in areas with II 2G classification.

### · Emergency mechanism

Each authorised key within an eCLIQ locking system can open or lock double profile cylinders fitted with an emergency mechanism, even when there is another key inserted in a lock position on the other side.

### · Surface finishes

IKON locking systems can be perfectly matched to the particular style of your doors. Besides the standard nickel-plated matt finish, other surface finishes are available for profile cylinders, furniture cylinders and outdoor cylinders.

### · Security identity card



A security identity card is supplied with every eCLIQ locking system. This security identity card is used for verification purposes when re-ordering keys and locking cylinders from the manufacturer. It must be shown to the specialist dealer when re-ordering components from the factory.

### · Special identification marking

If required, locking cylinders and keys can be supplied with a special identification marking of your choice, consisting of up to eight digits.

### · Dust and rain protection cap



The optional dust and rain protection cap protects locking cylinders installed outdoors against all weather conditions, e.g. on radio masts. The new design increases the IP protection of the cylinder from IP54 to IP55. The cap is also suitable for all cylinder types.

### · VdS class



Certification mark issued by VdS-Schadenverhütung, the German insurance industry's certification centre. All IKON euro profile cylinders described here can be optionally supplied with VdS certification according to VdS 2156-2.

ASSA ABLOY is the global  
leader in door opening solutions,  
dedicated to satisfying  
end-user needs for security,  
safety and convenience



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