

eCLIQ



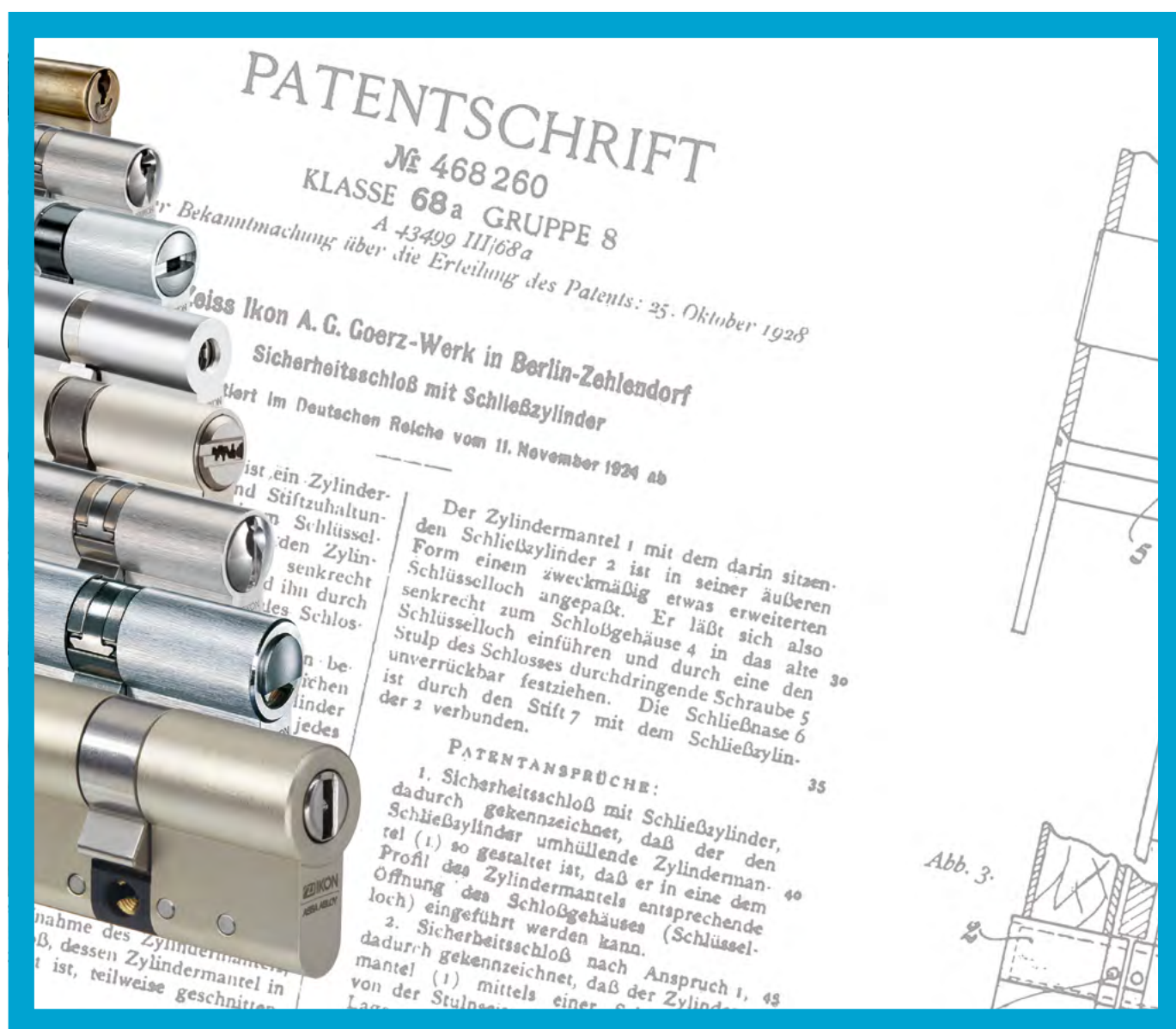
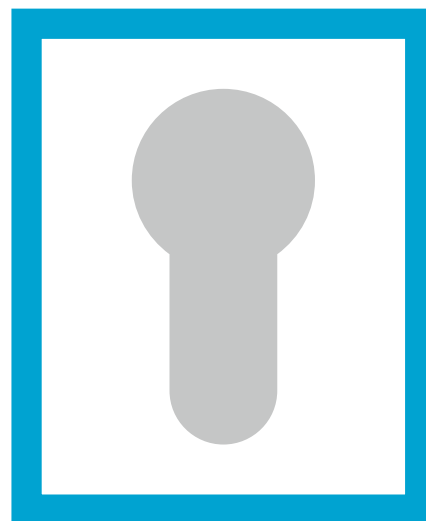
The key to electronic locking

IKON
ASSA ABLOY

IKON – the locking system specialist since 1926!

Experience a safer
and more open world

Our invention and expertise –
IKON is the original and has been
shaping developments
in lock and security technology
for over 90 years.



Since inventing and patenting the profile cylinder more than 90 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 what is known as the security cylinder. This is a legacy which we are committed to and which we are proud of.

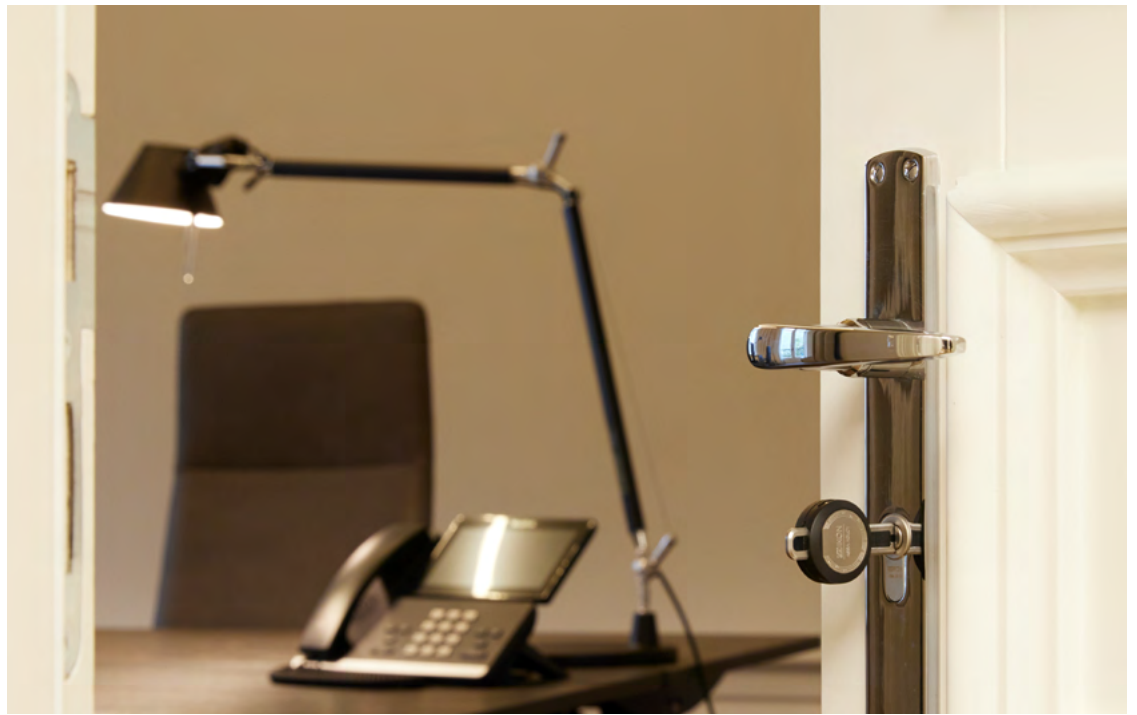
The profile locking cylinder is almost always used wherever doors are locked and need to be secured against unauthorised entry. Today, this cylinder represents the key component in lock and door security systems. We are still supplying keys and locking cylinders today for locking systems which were installed as far back as 90 years ago.

Content

An IKON-brand locking system is always tailor-made – Planned by professionals and customised to your needs	6
eCLIQ – the completely new electronic locking system: An innovation with time-tested technology	7
eCLIQ: The key to electronic locking More secure, more efficient and longer-lasting than conventional master key systems	8
Management of the eCLIQ system Maximum flexibility in issuing and withdrawing access authorisations	9
eCLIQ – perfect in every situation Easy installation – no cables required	12
The eCLIQ locking system in action Maximum flexibility and greater security for companies	14
eCLIQ system components Keys and cylinders	18
eCLIQ system components Programming devices	21
Locking systems and more: Integrated security technology for the entire building	22
For better understanding: Our brief glossary on locking cylinders	23







Implemented based on customer preferences: eCLIQ, a new generation of electronic locking systems



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 two locking systems are ever the same. A multitude of different factors play a role starting right from the needs analysis and planning stage. Such factors include specific requirements, size and the structure and use of the building or system. Last but not least, the master key system must be open and flexible, so it can accommodate any future requirements.

Convenient software packages are available for planning and subsequent management of an electronic eCLIQ locking system. As you would expect, our certified CLIQ expert partners provide assistance throughout Germany. Regardless of individual requirement profiles, one thing is certain: an IKON locking system will always be the right choice. With eCLIQ, such a choice becomes something quite special.

ASSA ABLOY expertise partners for CLIQ will provide you with individual locking solutions for your building's structure and environment based on certified quality for customer consultation and service.



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 met regarding aspects such as insurance?*
- *Are frequent changes expected regarding aspects such as access authorisations and restructuring?*
- *How should your locking system be used?*

Planning step your locking system step by step:

- *Individual needs analysis*
- *Macrostructure design*
- *Creation of an organisational chart*
- *System checked and accepted by users, developers, architects and planners*
- *Creation of lock plan design*
- *Lock plan checked and accepted by users, developers, planners and architects*



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



The new eCLIQ electronic locking system is based on time-tested CLIQ technology from ASSA ABLOY, used the world over. Building owners and users alike have been appreciating the benefits of mechatronic CLIQ systems for many years in both small and extensive, complex locking systems.

The core of the new, exclusively electronically coded eCLIQ locking system is its unique, innovative locking cylinder technology.

Thanks to its set-up and structure, the eCLIQ locking cylinder achieves an unprecedented level of compactness and flexibility.

Remarkably durable, the eCLIQ key is also a true innovation in an unusual, striking design. Fitted with a latest generation chip, the entire eCLIQ system is faster, more powerful, more secure and more energy-efficient than conventional locking systems.

A secure investment:
The eCLIQ electronic locking system boasts impressive performance in many areas of use.

Only eCLIQ can offer such advantages.

The eCLIQ electronic system is a completely new development on the international locking system market.

This applies not only to its technology, but also to its design and user convenience. Since many customer requirements from a wide range of industries were taken into account during the eCLIQ's development, the system is extremely user-oriented and offers numerous advantages down to the tiniest detail.

eCLIQ – perfect in every situation.

The eCLIQ system is generally suitable for designing locking systems of all sizes and in all types of buildings. Its specific features make it particularly beneficial for certain areas of use.

A few examples

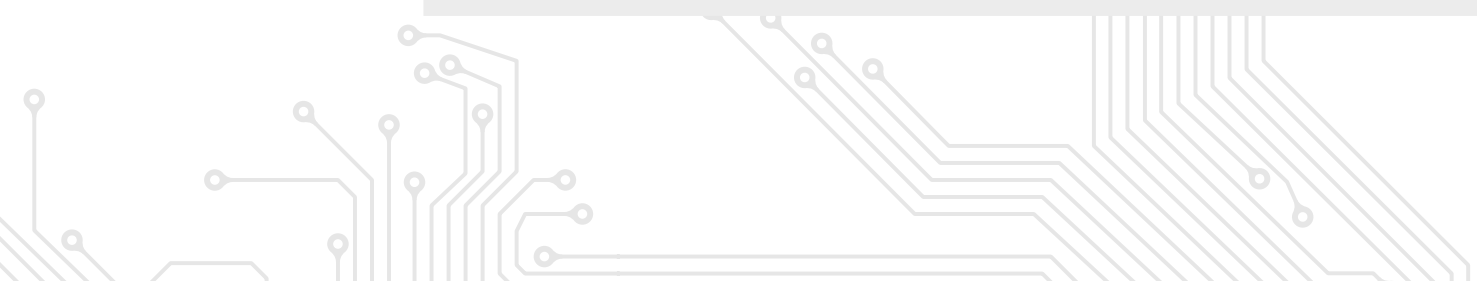
- **Supply, infrastructure and industrial enterprises:**

In addition to its flexibility, eCLIQ's robust design and long service life are particularly advantageous and cost-efficient.

- **Museums, galleries, events centres:**

It blends into design-accented doors and environments without protrusions thanks to the locking cylinder's compact design and the available lengths from 28 mm on each side.

- **Heavily used doors and key switches,** such as those at car park entrances: eCLIQ is particularly suitable in such cases thanks to the cylinder's durable design, maintenance-free for up to 200,000 cycles.



eCLIQ: The key to electronic locking

More secure, more efficient and longer-lasting than conventional locking systems

eCLIQ is an exclusively electronic locking system based on precision mechanical components and microelectronic modules containing ASSA ABLOY's CLIQ® technology. The microelectronics in the programmable, waterproof key and

the compact electronic locking cylinder ensure maximum security – reliably and with no complications. eCLIQ solves the problem of lost keys. Locking authorisations can be easily deleted since each key can be programmed individually.

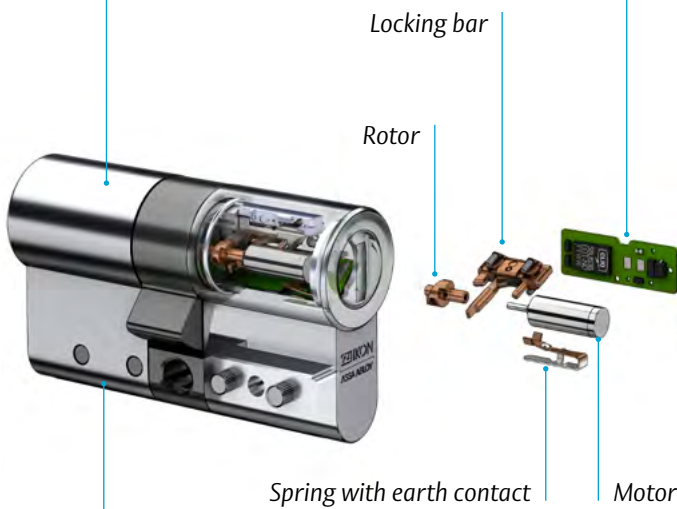


Simple, swift installation of cylinders with no wiring

New, future-oriented CLIQ® chip generation with AES encryption and fast processing speed with efficient energy management



The electronic contact between keys and locking cylinders serves to transmit both power and data securely



Keys and cylinders can be programmed with flexible locking authorisations and schedules



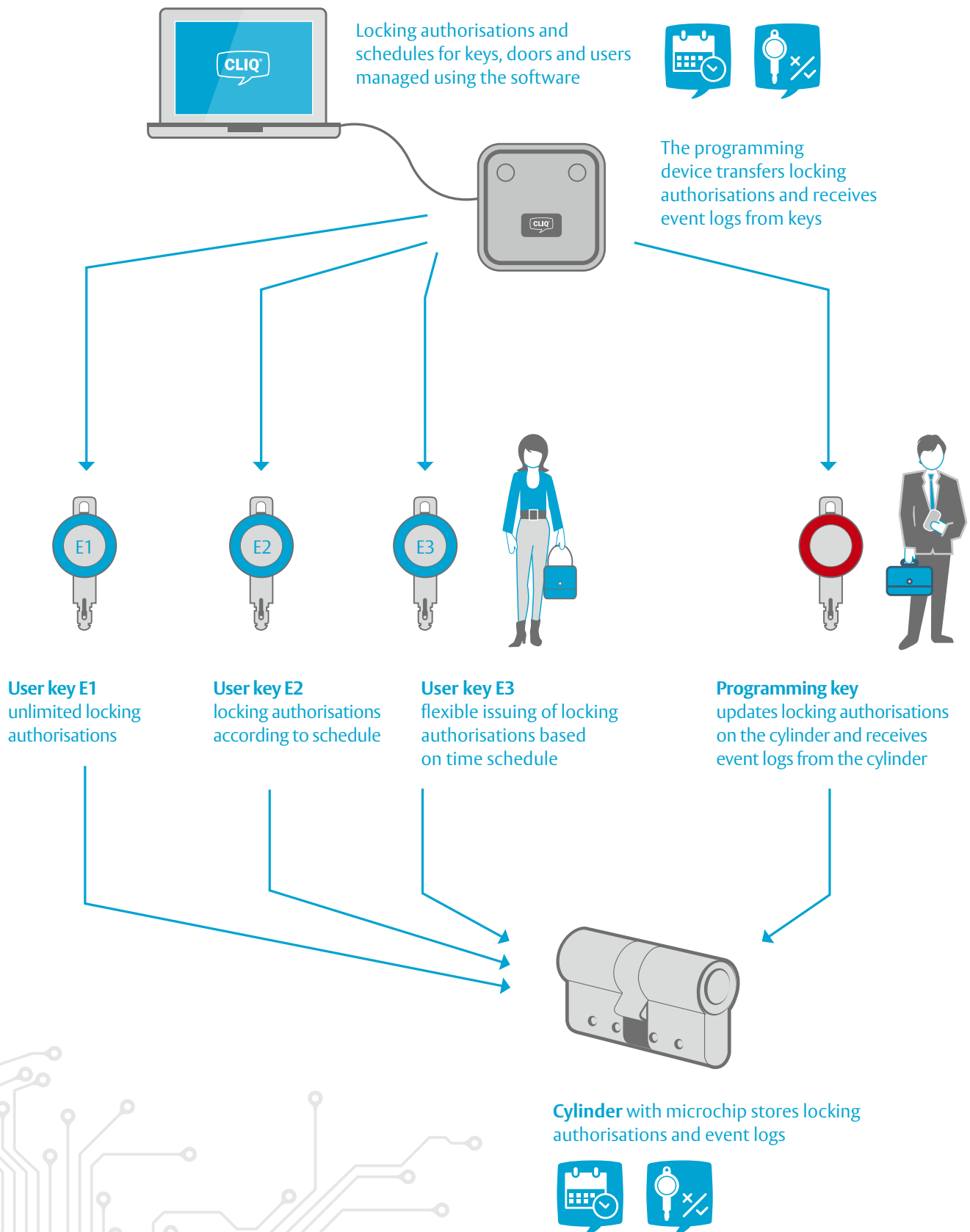
Waterproof and dust-proof key bow with battery and electronics board

Rapid replacement of the standard battery in the key – without using any tools

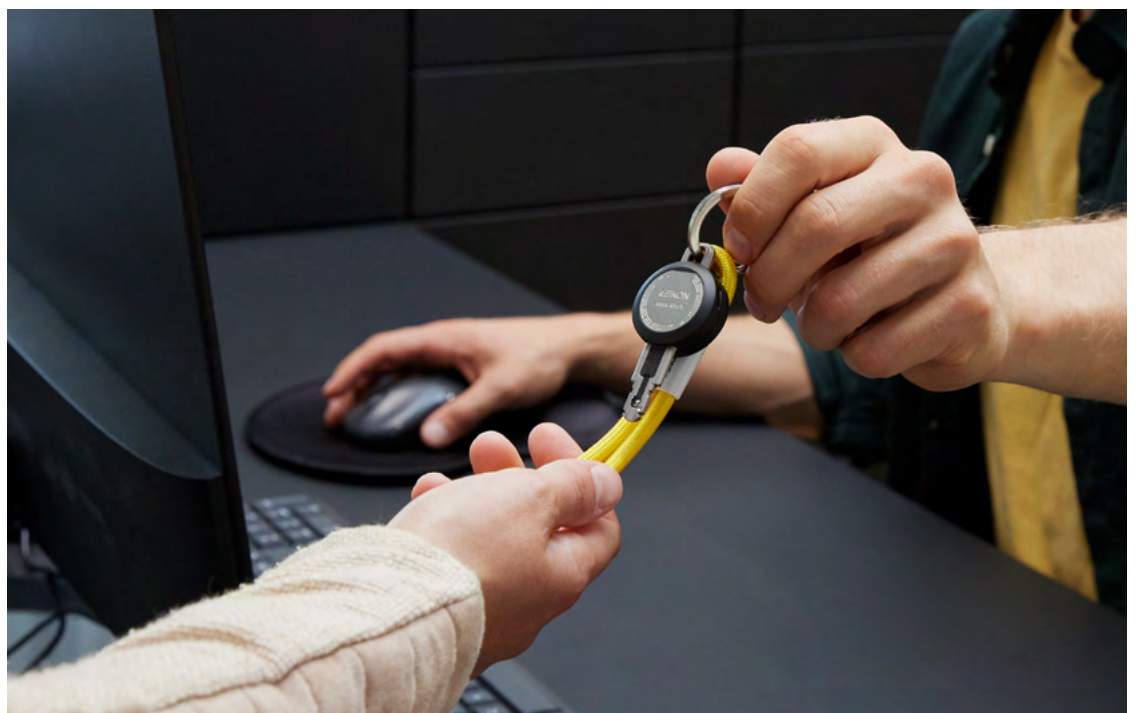
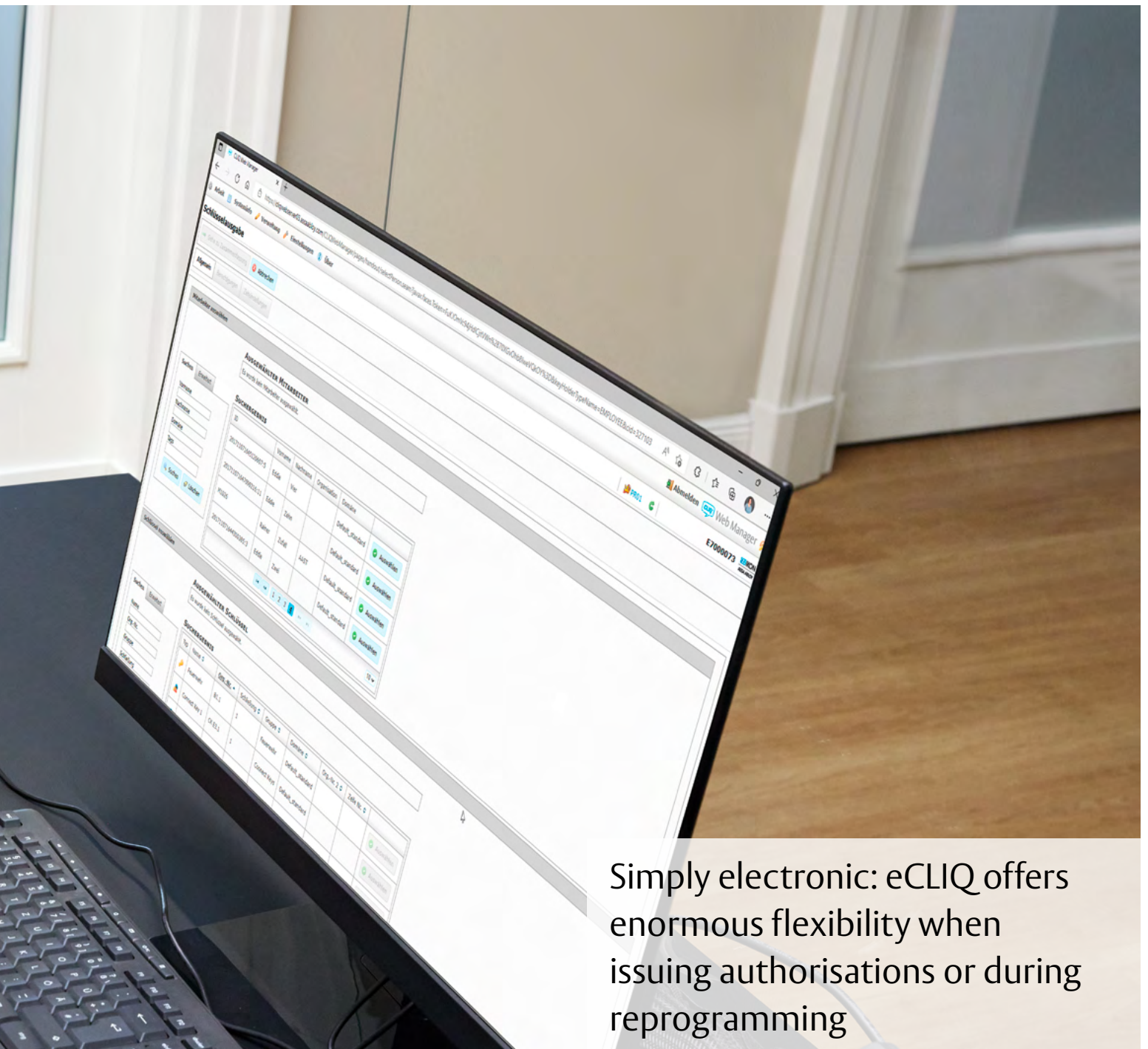


Management of the eCLIQ system

Maximum flexibility in issuing and blocking access authorisations

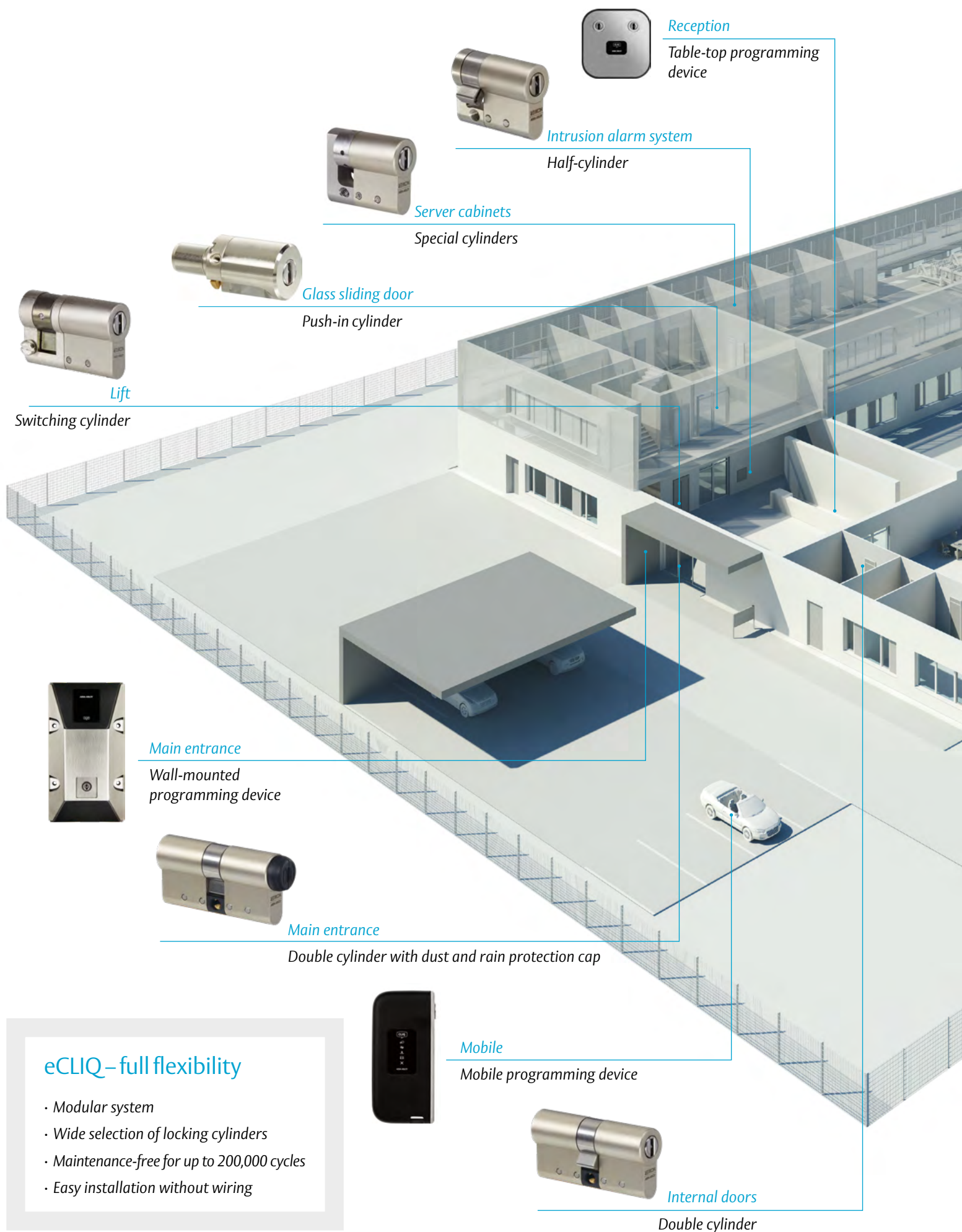






eCLIQ – perfect in every situation

Easy installation – no cables required



Reception

Table-top programming device

Intrusion alarm system

Half-cylinder

Server cabinets

Special cylinders

Glass sliding door

Push-in cylinder

Lift

Switching cylinder

Main entrance

Wall-mounted programming device

Main entrance

Double cylinder with dust and rain protection cap

Mobile

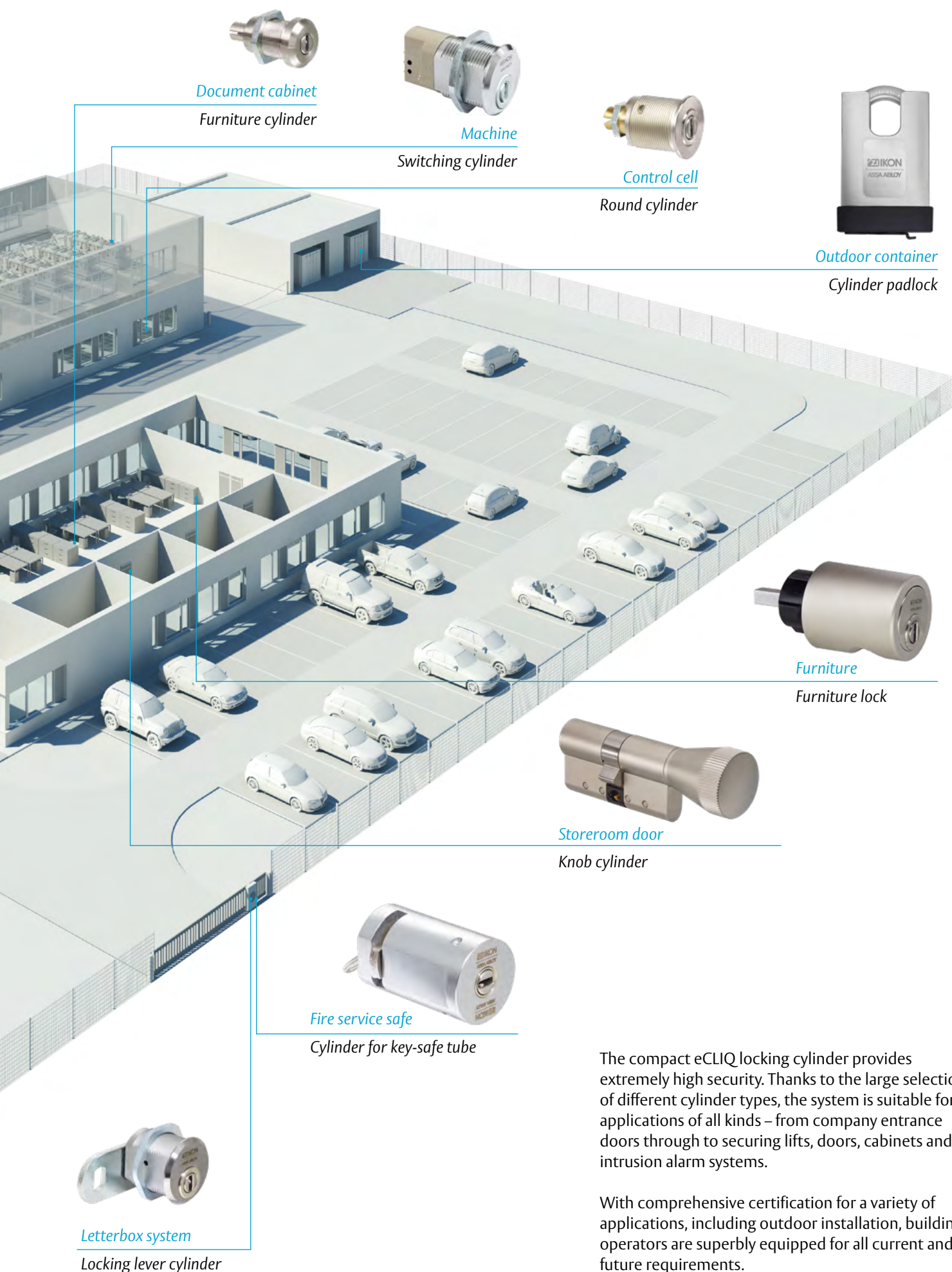
Mobile programming device

Internal doors

Double cylinder

eCLIQ – full flexibility

- Modular system
- Wide selection of locking cylinders
- Maintenance-free for up to 200,000 cycles
- Easy installation without wiring



The compact eCLIQ locking cylinder provides extremely high security. Thanks to the large selection of different cylinder types, the system is suitable for applications of all kinds – from company entrance doors through to securing lifts, doors, cabinets and intrusion alarm systems.

With comprehensive certification for a variety of applications, including outdoor installation, building operators are superbly equipped for all current and future requirements.

The eCLIQ locking system in action

Maximum flexibility and greater security for companies

Personnel changes, temporary employment relationships and partnerships with other companies are standard business practices. Lost keys can easily fall into the wrong hands.

The eCLIQ locking system overcomes the difficulties associated with constantly changing access authorisations. With its optimal combination of flexibility, security and user convenience, eCLIQ is the logical solution.

Examples

Management while out and about



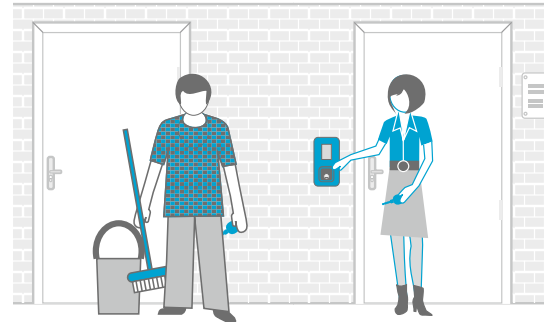
The administrator manages the system on CLIQ® Web Manager at any time and from anywhere. The only requirement is internet access.

Management on site



The receptionist programs and controls the issuing and return of user keys (E3 remote) on CLIQ® Web Manager.

Employees on site

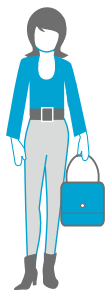


An "E3-remote" is issued to cleaning staff for doors with a low security category, for example, due to changing requirements and high staff turnover rates.

Employees regularly update the validity of their key (time and remote) via remote programming devices to minimise the risk of key loss.

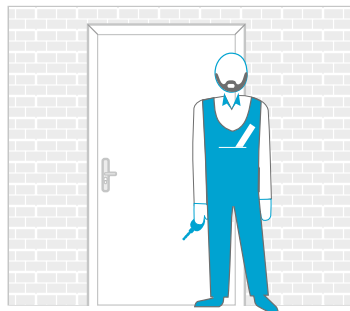
eCLIQ is longer-lasting, more secure and more efficient than conventional locking systems and protects properties of all types and sizes with flexible issuing of access authorisations.

Employee out and about

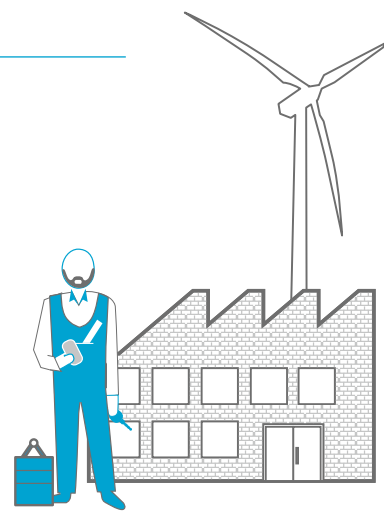


An employee is out on a job and needs new access authorisations immediately. The employee informs the administrator, who implements these changes using a mobile programming device.

Employee or contractor on site or out and about



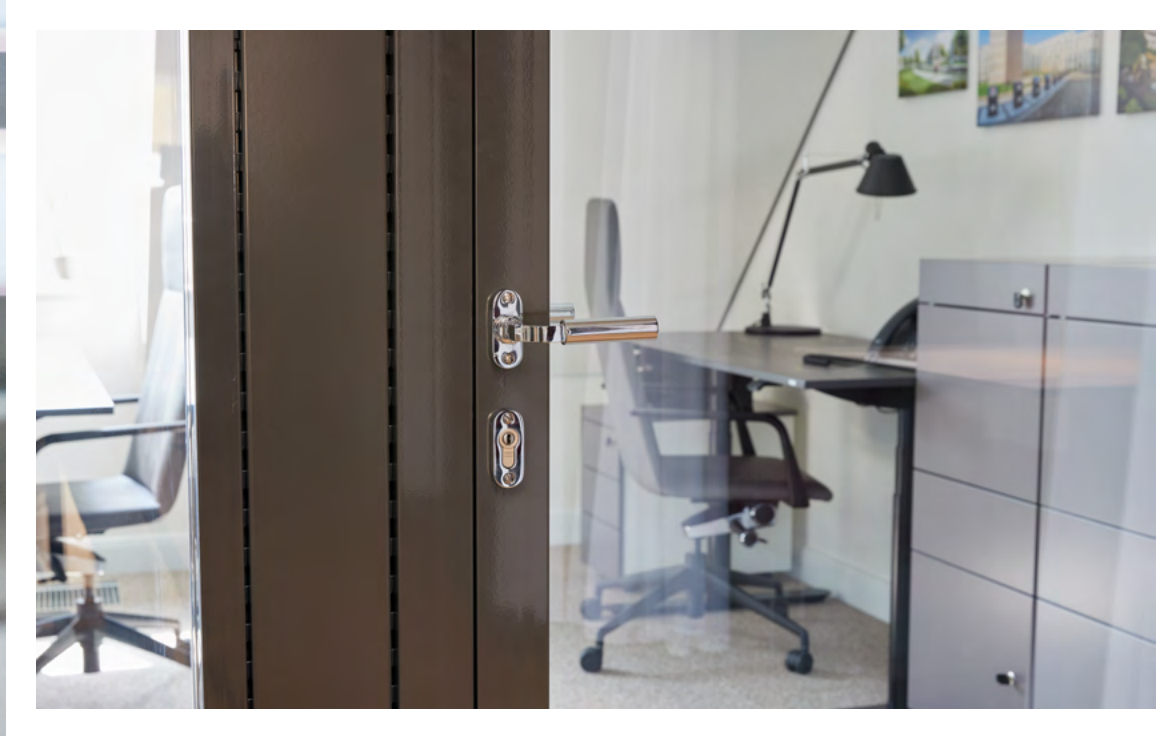
Security personnel use CLIQ® Web Manager and the programming key in a different location to change access authorisations to the locking cylinders.



Users can receive temporary access authorisations with their keys (E3 remote) for other locations. These rights are issued using the mobile programming device and a mobile telephone.







Eminently suitable for restricted-access areas:
eCLIQ with the latest chip generation for
optimum encryption and protection against
tampering and electronic attacks



eCLIQ system components

Keys and cylinders

- Compact key design ensures stability and a long service life
- Reversible key: always fits no matter which way it is inserted into the cylinder
- Visual and acoustic signals for access authorisations, time zones and battery status
- Protected against temporary immersion in water (IP67)

- Available in three models (E1, E2 and E3)
- Integrated standard battery (CR2450 button cell) for around 100,000 locking procedures (service life of around 10 years)
- No tools needed to change battery

Programming key

The red programming key carries changes to rights and event logs between software and locking cylinder. It is also used for authorisation with use of the software.



User key E1, E2, E3

- E1** for simple access authorisations
- E2** with temporary access authorisations and event logs
- E3** flexible access authorisations and event logs



CLIQ Connect key

CLIQ® Connect is a supplement to the eCLIQ solution and allows users to update keys anywhere at any time using an iOS or Android device. Users can use the CLIQ Connect app to securely update their access authorisations without an additional programming device. New rights are quickly and simply transmitted onto the eCLIQ key via Bluetooth®.



Spark key

The Spark key is battery-free and generates its own power. It can be used independently like a mechanical key, but also features many of the typical CLIQ® electronic functions. The power required for the locking function and checking access authorisations is generated by a generator in the key during insertion into the cylinder.



"Beluga" user key

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



"Ex" user key

User keys are optionally available for use in Zone 1 explosion-prone areas (II 2G EX IB IIC T4 Gb)

- Highly secure protection against tampering and intelligent attempted break-ins
- Integrated microchip to store access authorisations and event lists
- Use under challenging environmental conditions (temperature range: -25 °C to +85 °C)
- Maintenance-free up to 200,000 cycles (with integrated lubricant reserve)
- The central keyway and low core protrusion ensure problem-free installation in conjunction with security fittings and other locks
- Optional with extended drilling protection
- Comfort function for emergency key

Cylinders

The cylinder automatically checks all programmed access authorisations and rejects unauthorised keys.



Authorisation

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

Blocking functions for up to 1,500 keys

Event memory for up to 750 events

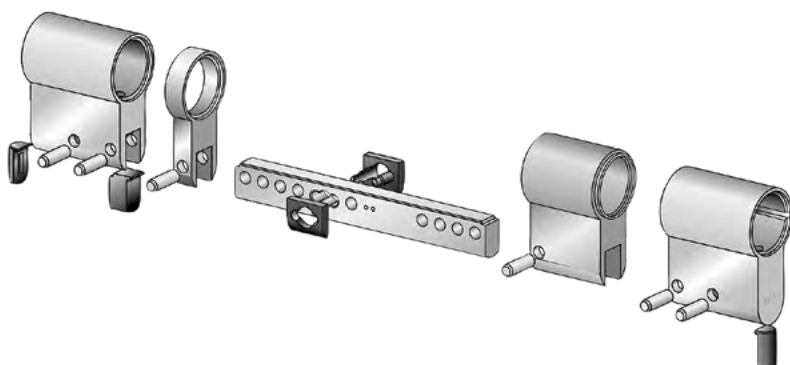
Optional dust and rain protection cap

External cylinders for all weather conditions, e.g. on radio masts. The cap ensures IP55 protection and is suitable for profile cylinders.



eCLIQ also available with transponder

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



Flexible modular system

Euro profile cylinder in lengths starting from 28 mm per side. Standard lengths extendible in 5 mm increments with total length between 60 and 120 mm. Special lengths with a total length of 240 mm are also available.

eCLIQ system components

Management software

For programming access authorisations and schedules for keys, doors and users, CLIQ® systems offer two versions of a reliable and uncomplicated management software:



The locally installed management software

CLIQ® Local Manager

- Locally installed management software for individual and several CLIQ® locking systems
- Intuitive and user-friendly for easy managing of CLIQ® locking systems in small and medium-sized companies
- Plug-and-play activation
- Improved security thanks to two-factor authentication
- Supports GDPR-compliant use
- Flexible and time-saving pre-modifications without the key owner needing to be present
- Tiered service levels
- User notifications to increase efficiency
- Integrated workflows take into account practice-relevant work steps
- Reports easily created
- Easy administration of different user groups
- Easily accessed .log files help to provide rapid support processes
- High acceptance among employee and works councils thanks to technical approver function

The new optional extension of the CLIQ®-Local-Manager software “Remote” enables new time-saving functions without the system being connected to the internet:

- The assignment of schedule changes increases the flexibility of employees and service providers
- Use of up to 3 wall programming devices for convenient updates and acceptance among key users
- The revalidation function minimises the risk if a key is lost
- Enables user keys and the associated access authorisations to be updated independently of the administrator
- GDPR-compliant use of event logs for specific incidents to minimise damage and ensure traceability



The Internet-based management software

CLIQ® Web Manager

- Allows locking system management to be connected online, thus providing access at any time wherever there is an internet connection
- Perfect for managing extremely large locking systems and systems spread across several sites
- Web application for multiple administrators, can be accessed by the client via a standard internet browser
- High-performance design enables management of locking systems of any size
- Technical approver function for obtaining events logs ensures high personal data protection

- Step-by-step user guidance and clear user interfaces reduce the amount of training required
- Revalidation options help to block lost keys and safeguard the system security
- Central server and data storage plus network-compatible client/server design
- Network connection, 128 bit SSL encryption and additional security with software certificates for client and server

eCLIQ system components

Programming devices



The programming device is used to read event logs and change time settings and access authorisations, depending on the key type.



Tabletop programming device
For local and central use

Tabletop programming device

- Communications interface for secure data transmission between CLIQ® management software and programming key
- Programming of user keys and the reading station for the log memory in the time and remote user key
- USB connection



Wall-mounted programming device
Local and de-centralised use (e.g. at entrances)

Wall-mounted programming device

- Remote programming of access authorisations and validities of user keys (time and remote)
- Transmission of programming orders to programming keys
- For decentralised management
- Programming functions run automatically with visual and acoustic signals
- Power supply via 12 – 24 V mains connection or power over Ethernet
- Outdoor version for areas requiring protection from vandalism (protection rating IP65 and IK09 – vandal-proof)
- Data transmission via standard Ethernet cable
- Protected against dripping water



Mobile programming device
Mobile use directly by the key holder

Mobile programming device

- Remote programming of access authorisations and validities of user keys (time and remote)
- Transmission of programming orders to programming keys
- For decentralised management
- Acoustic and optical signals for operating status and activity progress
- Data transmission to the mobile device via Bluetooth on a smartphone or tablet and via USB to PC
- Power supply via standard batteries
- Mini USB connection for data exchange via cable
- Protected against dripping water



Locking systems and more – Integrated security technology for the entire building

You can always completely rely on ASSA ABLOY products whether you use them for companies, institutions, government agencies, industrial premises or administration buildings. From the locking system to locking and escape route technology, with ASSA ABLOY, all products, systems and solutions are harmonised so that they work reliably and in concert throughout the entire property. In addition to your IKON locking system, other ranges are also available to complete your security solution.

Our high-quality security locks with panic function and automatic locking ensure outstanding mechanical security combined with safe operation for the user in an emergency. Locks and cylinders are combined with visually appealing

door fittings which also meet your security expectations.

ASSA ABLOY's slide rail door closers with their outstanding, award-winning design, offer optimum access comfort thanks to their perfectly regulated closing and opening forces and meet any requirements for barrier-free construction.

effeff escape route technology offers the right solution for electrical protection of escape routes against unauthorised use.

This adds new dimensions to your new locking system and brings comprehensive added benefits. It will prove to be a worthwhile investment, and not only in the event of a burglary.

1 | Escape route technology

Modern escape door control systems offer protection and security.

2 | Commercial and public building locks

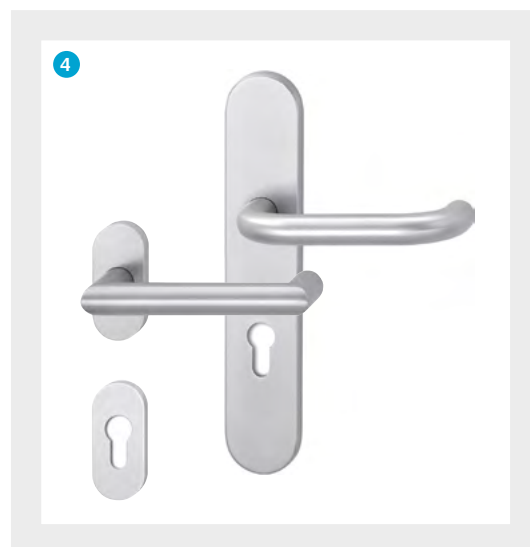
An innovative range of mechanical locks specially designed for public and commercial building applications.

3 | Door closers

A comprehensive series of door closers in reduced, consistent design covering nearly all applications.

4 | Property fittings

ASSA ABLOY property fittings are the ideal complement to our locks in public buildings and properties.



For better understanding: Our brief glossary on locking cylinders



• Drilling protection

Increased drilling protection to security class AB=3 (SZ=VdS) 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). Also 28/28 with eCLIQ. 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 15684:2021. These standards, which define the requirements for high-grade locking cylinders, include measures such as cylinder

protection, key control and protection against key copying, decoding, lock picking and drilling.

• Explosion protection

eCLIQ locking cylinders and keys are suitable for use in areas with Zone I explosion-prone atmospheres, ATEX=II 2G EX IB IIC T4 Gb.



• Comfort function

Each authorised key within an eCLIQ locking system can activate 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, depending on the system. In addition to the standard nickel-plated satin finish, there are other surface finishes available for profile cylinders, furniture cylinders and external cylinders.

• Security card



A security card is supplied with every eCLIQ locking system. This security card is used for verification purposes when re-ordering keys and locking cylinders from the manu-

facturer. 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 against all weather conditions, such as those experienced on radio masts. The new eCLIQ design increases the IP protection from IP54 to IP55. The cap is 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 in this brochure are optionally available with VdS certification in accordance with VdS 2156-2.

The ASSA ABLOY Group is a world market leader in access solutions. We help people to feel safer and more secure and experience a more open world every day.

ASSA ABLOY
Opening Solutions

ASSA ABLOY Sicherheitstechnik GmbH
Bildstockstrasse 20
72458 Albstadt
GERMANY
Tel. +49 7431 12 30
albstadt@assaabloy.com

Attilastrasse 61 – 67
12105 Berlin
GERMANY
Tel. +49 30 8106-0
berlin@assaabloy.com

www.assaabloy.com/de

ASSA ABLOY Austria GmbH
Hütteldorfer Strasse 216 c
1140 Vienna
AUSTRIA
Tel: +43 (0) 1 212 51 11
wien@assaabloy.com

www.assaabloy.com/at