

# Master Key Systems

Examples, functions and solutions.



A man in a dark grey suit and light blue shirt is standing in profile, facing left, and using a key to unlock a glass door. The door has a silver handle and a keyhole. The background shows a modern building with large windows and a clear sky. The text "Mechanical key systems – secure, reliable and long-lasting" is overlaid in white at the bottom of the image.

Mechanical key systems –  
secure, reliable and  
long-lasting

# Table of contents

	<b>Your trustworthy partner for smart access solutions</b>	
07	<ul style="list-style-type: none"> <li>• Mechanical key systems – Keep your keys under control</li> <li>• Customised access management – Cleverly organised with master key systems</li> </ul>	
	<b>Applications</b>	
14	• Locking systems for private homes	
16	• Central locking systems for apartment buildings	
18	• Business offices and departments	
20	• Education	
22	• Hospital	
24	• Hotel	
26	• Theatres and cinemas	
28	• Train stations	
	<b>Functions</b>	
32	• Self changing cylinder: Modification to the access authorisation in no time	34
33	• Double key override function	• Emergency key function (GF)
	• Restricted movement Cylinder (Classroom Function)	• Elevator control and switch cylinder
	• Coloured key clips	• Furniture cylinders
		• Freewheel cylinders for gear operated and emergency locks (FZG)
		35
		• Extreme protection – increased burglary protection
		• Padlock
		• Secure Access Temporary (SAT)
		36
		• Duplo function (DF)
		• Protection mechanism against dust, weather and insects
		• Thermally insulated cylinder (TIC)
		• Thumbturn
		37
		• WC or bathroom cylinder
		• dormakaba modular system
		• Cylinder types
		38
		• Mechatronic and electronic
		• Security card as user ID
		• Applications or OEM
		39
		• Surfaces finishes
		40
		• Combination of functions – reversible key systems
		41
		• Combination of functions – serrated key systems
		42
		• Sustainability – We make access in life smart and secure

Master Key Systems by dormakaba

-STRASSE 11-17

We have been safe-  
guarding people and  
property for 160 years.

Through our many years of experience and millions of products and solutions installed worldwide – from push button locks and door closers to highly complex, networked access solutions with smartphone access – dormakaba is your reliable partner for secure and flexible access to buildings and rooms.



# Mechanical key systems – delivering secure seamless access

No matter where you need innovative, reliable access and security solutions, we are there for you with our high-quality portfolio: in hotels, shops, sports facilities, airports, hospitals, at home or in the office.

We are one of the top three companies for access control and security solutions in the global market. We provide everything you need for secure access to buildings and rooms, all from one single source.

More than 15,000 employees and numerous cooperation partners are ready to assist you in over 130 countries. So no matter where you are, you can benefit from our range of future-oriented products, solutions and services that give you a sustainable sense of security.





With a mechanical key system, you control your keys and access rights, providing quick access to all rooms within the premises and saving key replacement costs.

**As infrastructure grows exponentially, so does the need to support this development with adequate security systems. Increased access points result in multiple locks that require efficient security management. This is where the dormakaba master key systems come in, by enabling access according to our customers' requirements and using entry restrictions to their advantage.**

A master key system is a key plan whereby selected keys can open a number of pre-defined doors. It extensively analyses and assesses our customers' requirements. Moreover, it can deliver solutions for even the most complex access management challenges and helps maintain better control, saves key replacement costs and is convenient, as there are a lower number of keys in circulation. It also provides quick access to all rooms within the premises, e.g. for security staff and management personnel. This is not only convenient but can save lives in case of emergency.

# Access management – cleverly solved with a master key system

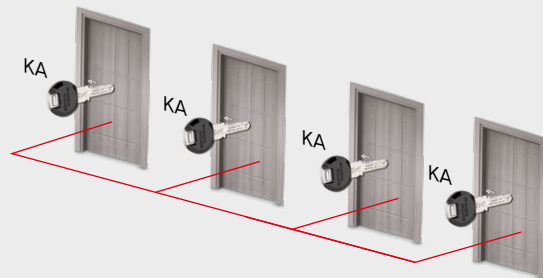
## Key to Differ (KD)

Each cylinder can be operated by its own key.



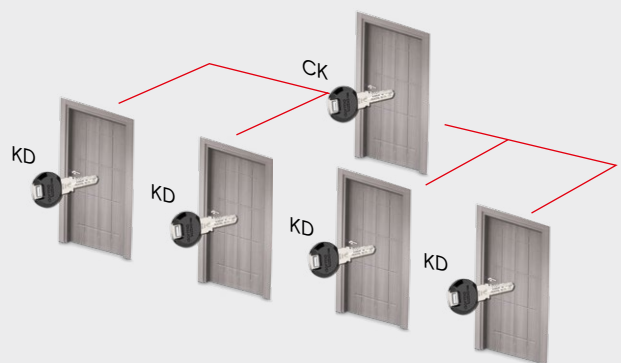
## Keyed Alike (KA)

Several cylinders with the same permutation can be opened by the same key.



## Central Locking System (CK)

Each key opens only its own cylinder and the centrally locking system (e.g. the common entrance in an apartment block).



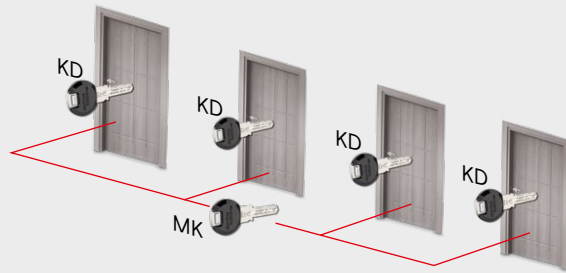




Master key systems is a complete product range that provides the most extensive access security solutions, which can be customised for large facilities to smaller solutions for niche customer profiles. The various typologies of dormakaba master key systems are as illustrated below:

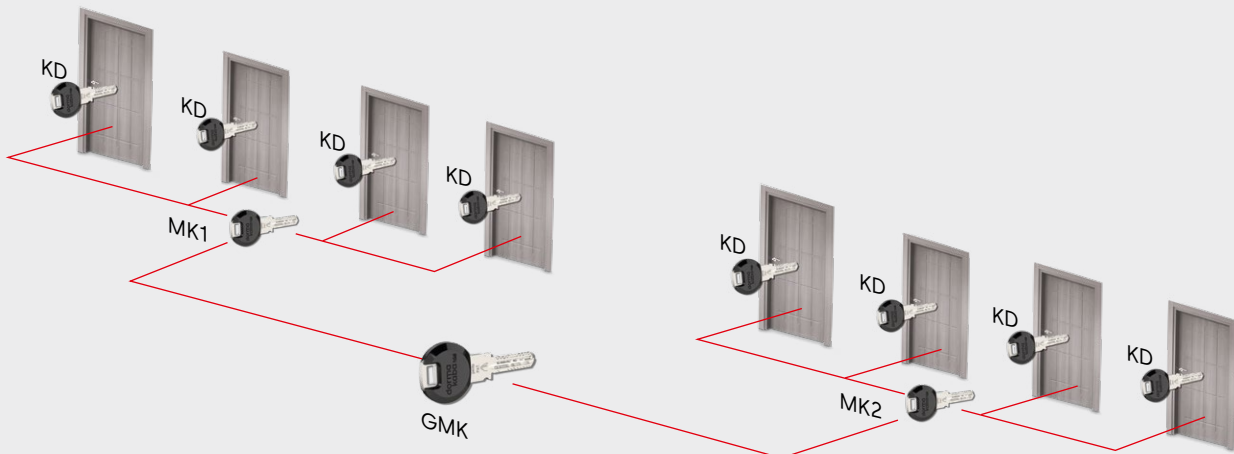
## Master Key System (MK)

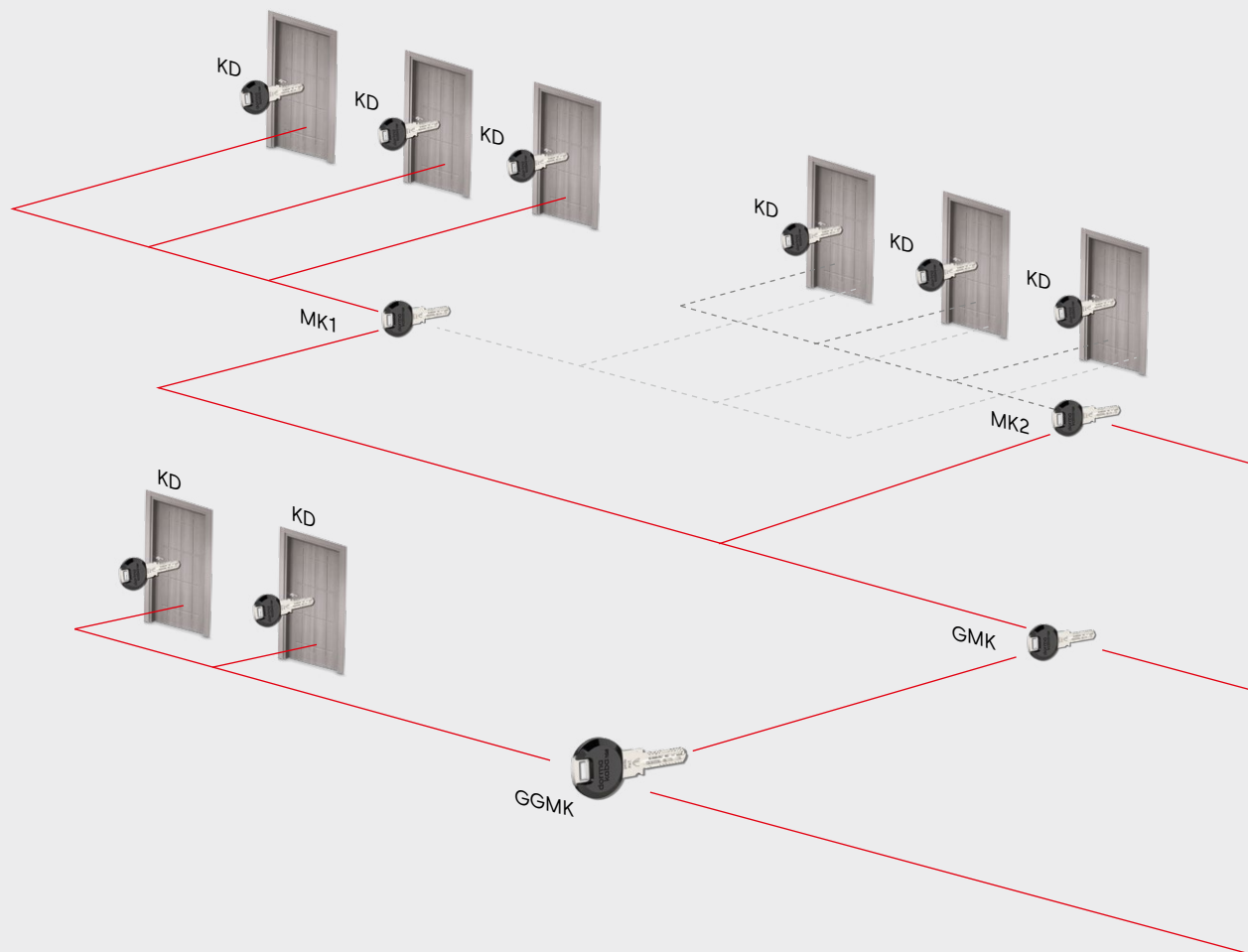
Each cylinder is opened by its own individual key and by the master key.



## Grand Master Key System (GMK)

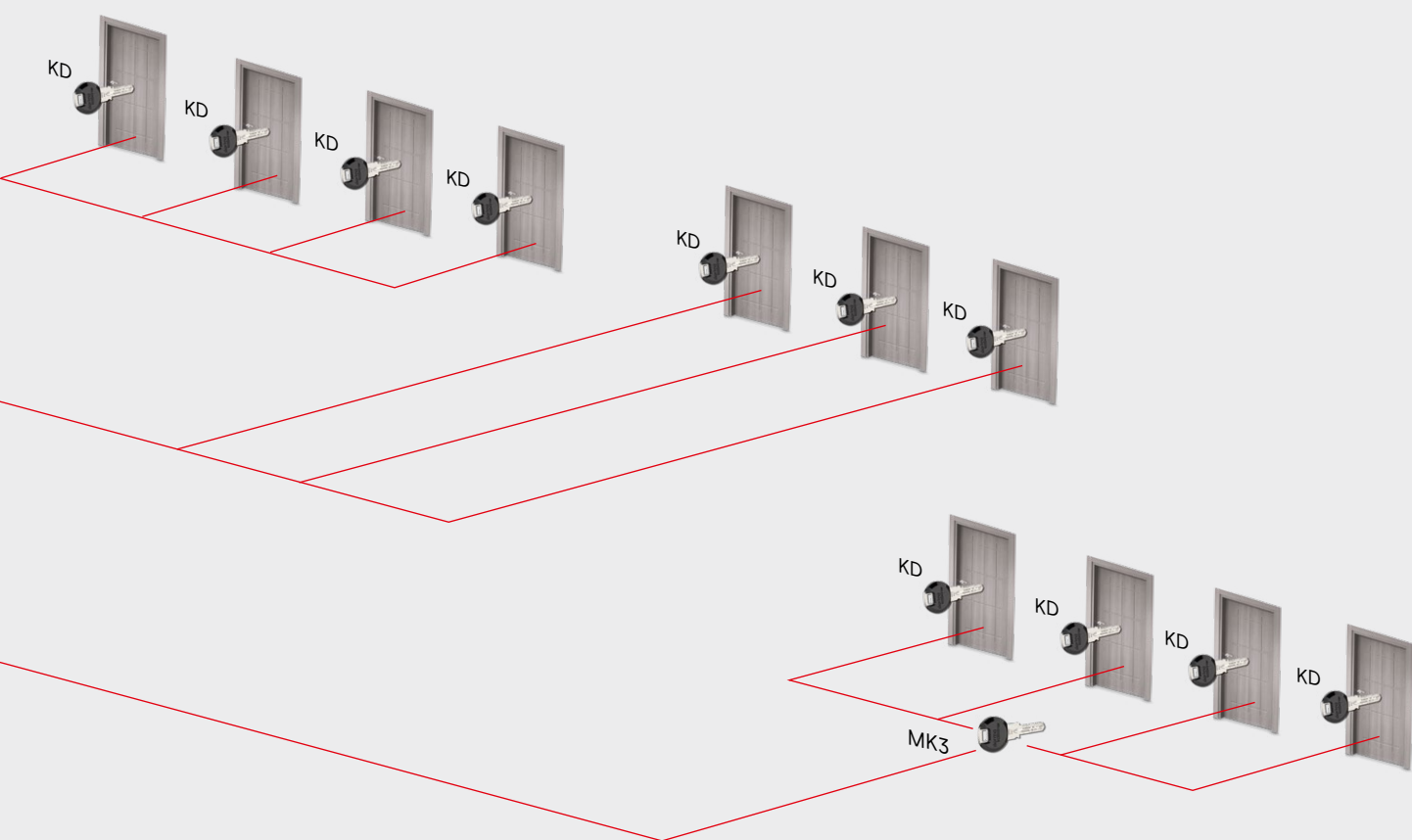
Each cylinder is opened by its own individual key, the master key and the grand master key.





## Complex Master Key System

Individual keys or master keys belonging to different groups of cylinders can open one or more cylinders belonging to other groups and can be extended to the great grand master key system (GGMK).



# Applications



# Locking systems for private homes

## Convenience and security in one

**Home is where we feel the most secure and a solution that can reinforce that feeling is a boon to families in any part of the world.**

Master key systems can be applied to various residential establishments – from small houses to large apartments or villas and from multistoried mansions to high rise apartment complexes. In a house, for example, a keyed alike system could be implemented in such a way that the house owners would be able to open all the rooms of the house with one single key. So besides the front door, you can also open your letter box, cellar, garage and many other doors with a single key. The children of the house would be given a key that would only open the front door and their bedrooms.

With the dormakaba lock cylinder and SAT (Secure Access Temporary) function domestic help would only be able to access the front door – if the proprietor key has activated the service function. A master key system would ensure an added level of security and greater convenience to granting and restricting access to one's home.

- 1 Service Area
- 2 Guest Toilet
- 3 Bedroom 1
- 4 Bedroom 2
- 5 Bedroom 3
- 6 Toilet 1
- 7 Toilet 2

Windows and patio handle locks

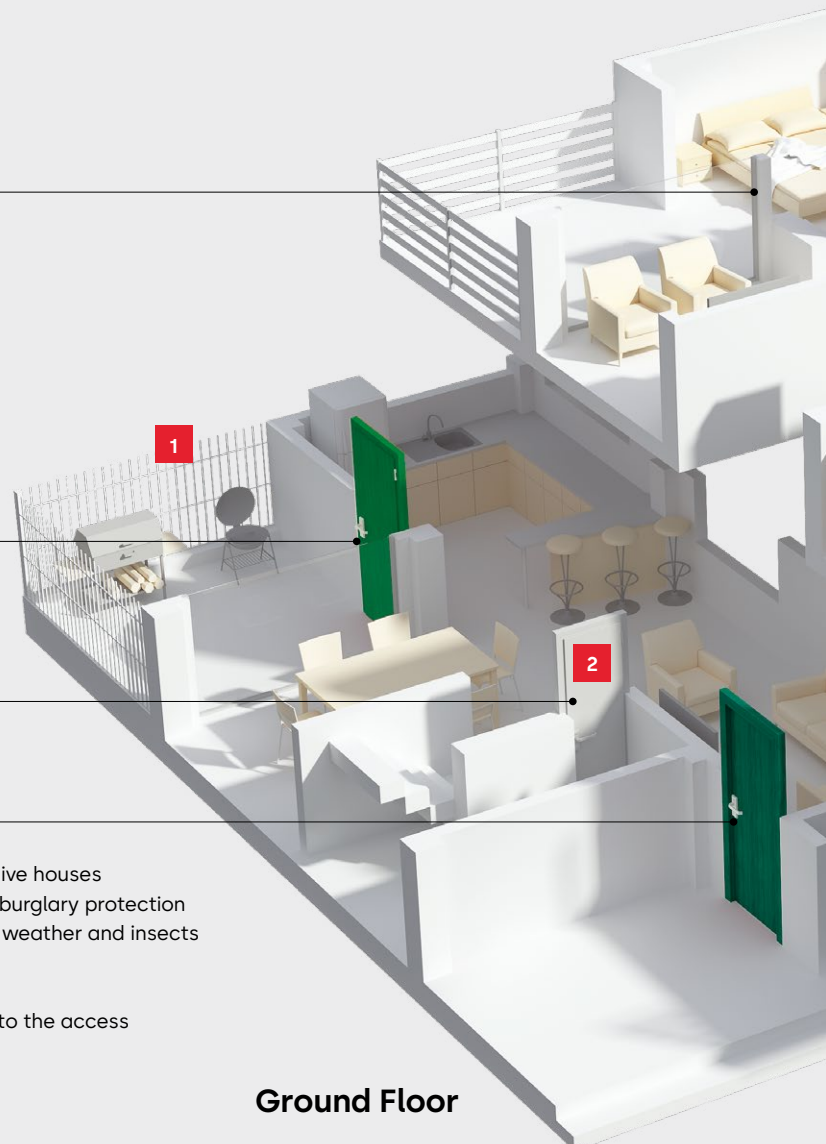
Secure Access Temporary – SAT for service personnel

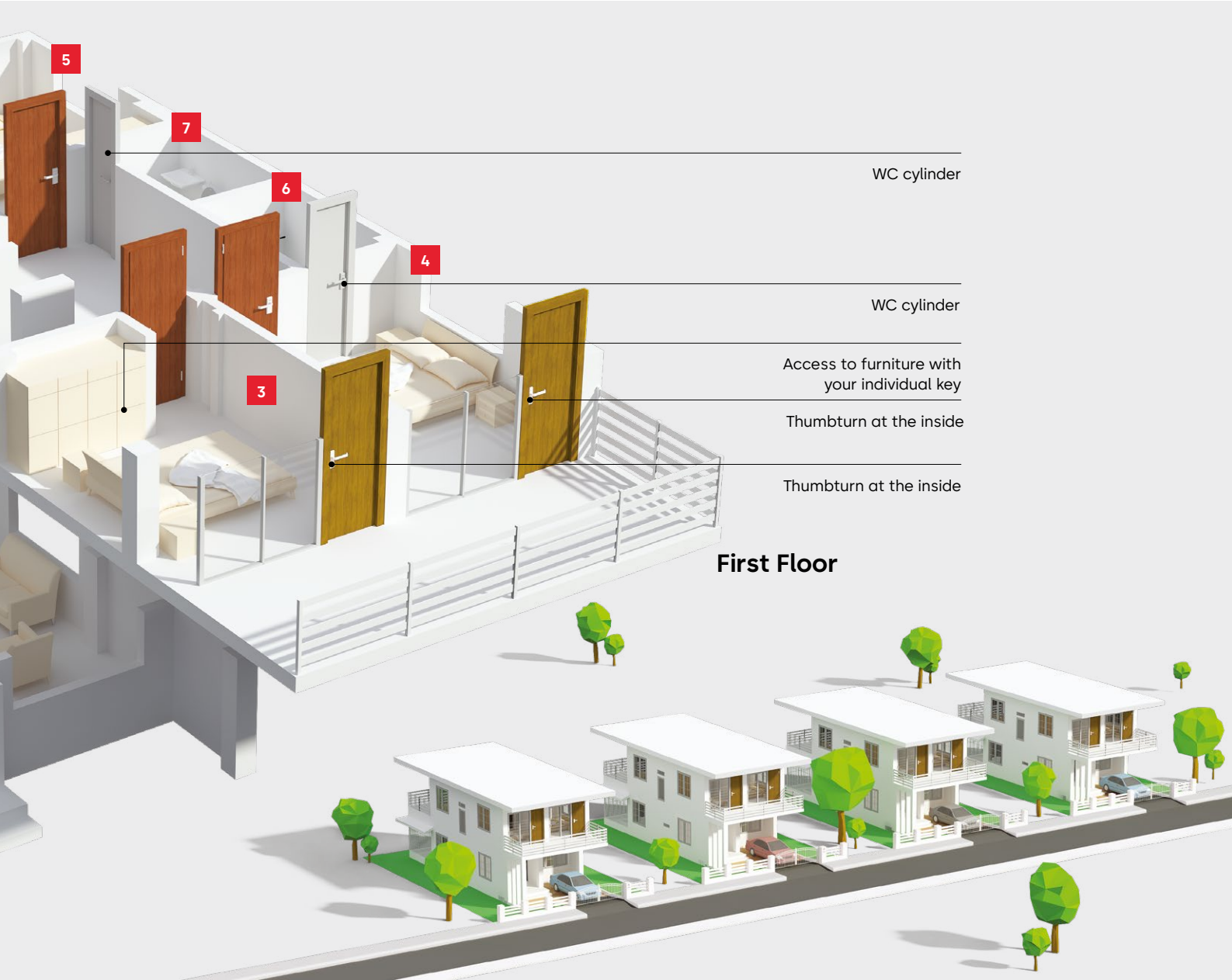
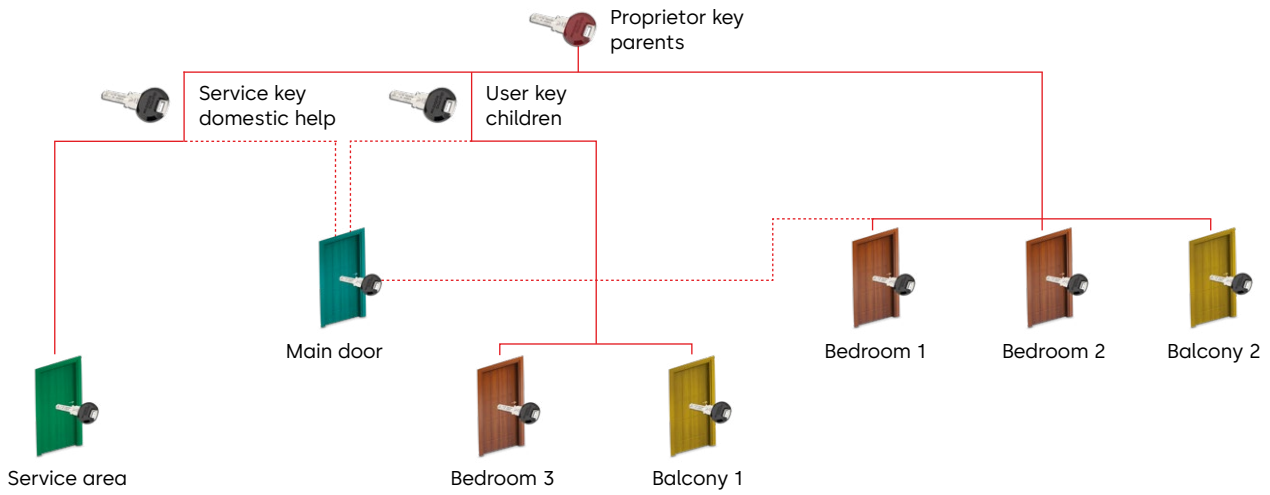
WC cylinder

#### Main door with possible functions

- Thermally insulated cylinder for passive houses
- Extreme protection – VdS increased burglary protection
- Protection mechanism against dust, weather and insects
- Secure Access Temporary – SAT
- Double key override function – BSZ
- Self changing cylinder: Modification to the access authorisation in no time

Ground Floor





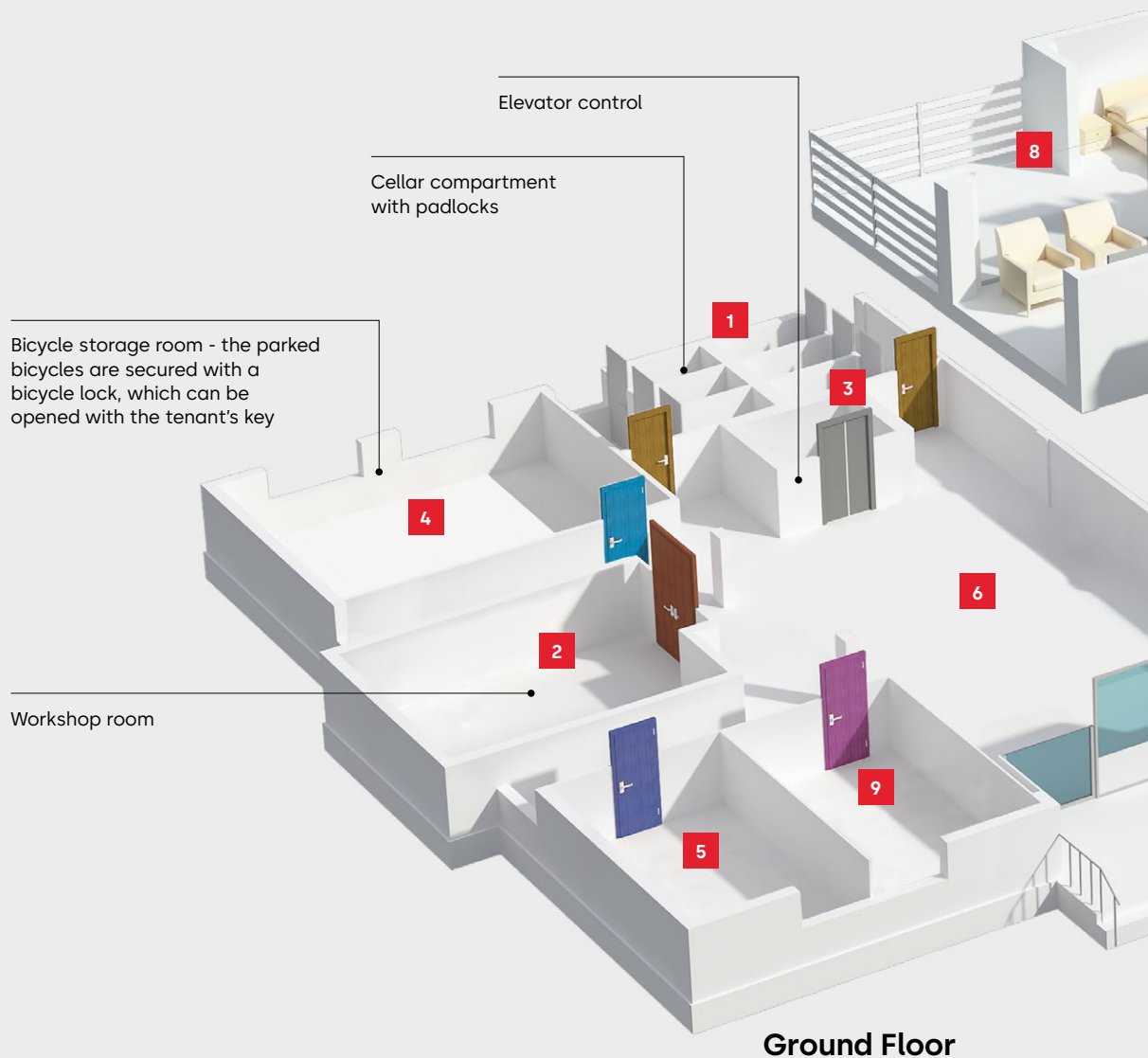
# Central locking systems for apartment buildings

## Security and organisation

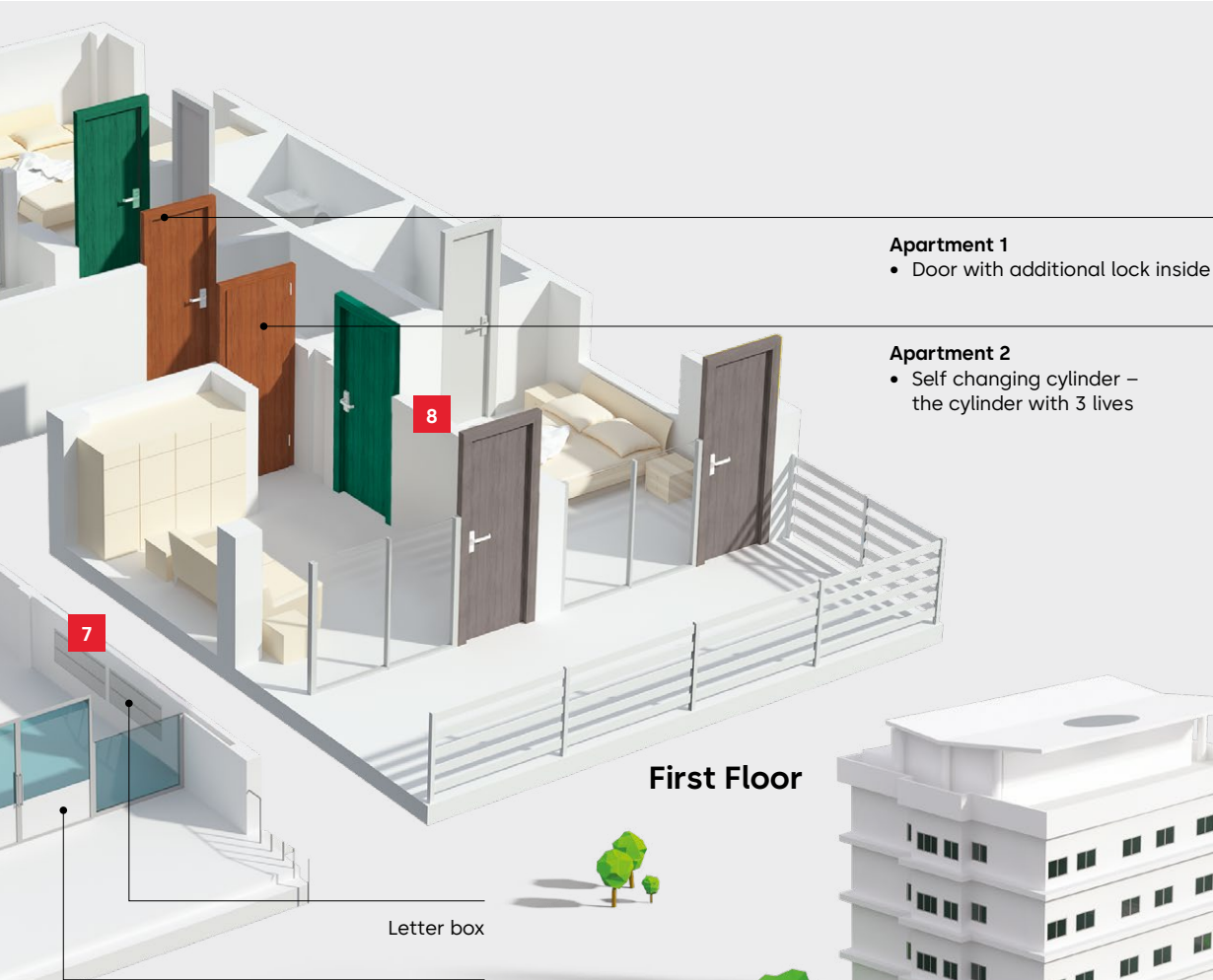
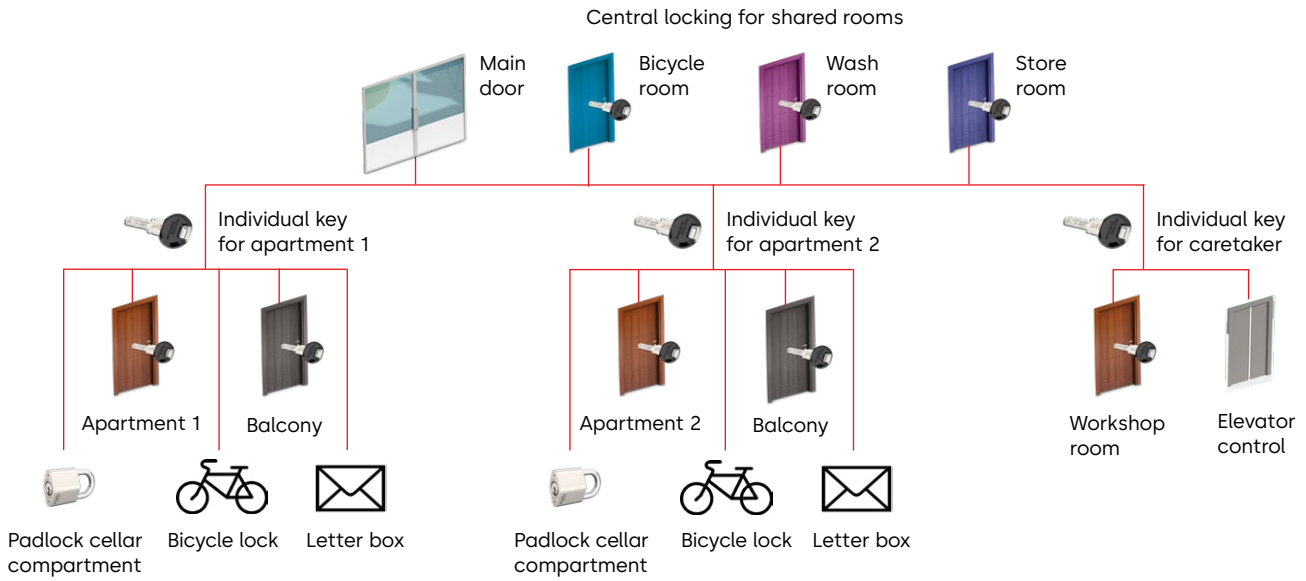
Master key systems are used in apartment buildings. Main doors like the entrances to underground car parks and basements can be opened and closed by all tenants with their assigned apartment keys. However no key will open the door of another apartment. Master key systems can be expanded so that letterboxes, basement storage compartments or secure car parking in the communal garage can be assigned to the apartment key, thus reserving access for the respective tenant.

Tenants need carry only one key around with them for all rooms. So caretakers do not have to procure, issue and supervise separate keys for communal doors. And their keys, in turn, only provide relevant access to doors like the main entrance and central communal and maintenance areas.

- 1 Cellar
- 2 Workshop room
- 3 Elevator
- 4 Bicycle room
- 5 Wash room
- 6 Entrance hall
- 7 Letter box
- 8 Apartment
- 9 Store room







**First Floor**

**Main door with possible functions**

- Extreme protection – VdS increased burglary protection
- Emergency key function
- Protection mechanism against dust, weather and insects



# Business offices and departments

## Increased security with master key systems

Master key systems are ideal for offices and can be successfully applied in any commercial or private office space regardless of its size. A master key system not only increases security but also grants greater access convenience to the shared spaces between various departments. For example, each department in the office would need common access to the conference room door as it's a shared space. However the R & D room would be opened by a single masterkey held only by the head of the department owing to the extra security requirements of the department. This means that role-based access rights can be assigned for each employee with just one key.

Master key systems can efficiently exclude and include entry according to a carefully prepared plan that enhances the working processes, access convenience and security protocols. Massive signature working environments in almost every corner of the world have substantially benefitted from our master key systems.

- 1 Emergency exit
- 2 IT server room
- 3 Toilets
- 4 Lift
- 5 Lobby
- 6 Commercial
- 7 Conference rooms
- 8 Product marketing
- 9 R & D
- 10 Sales
- 11 Conference rooms

Elevator control

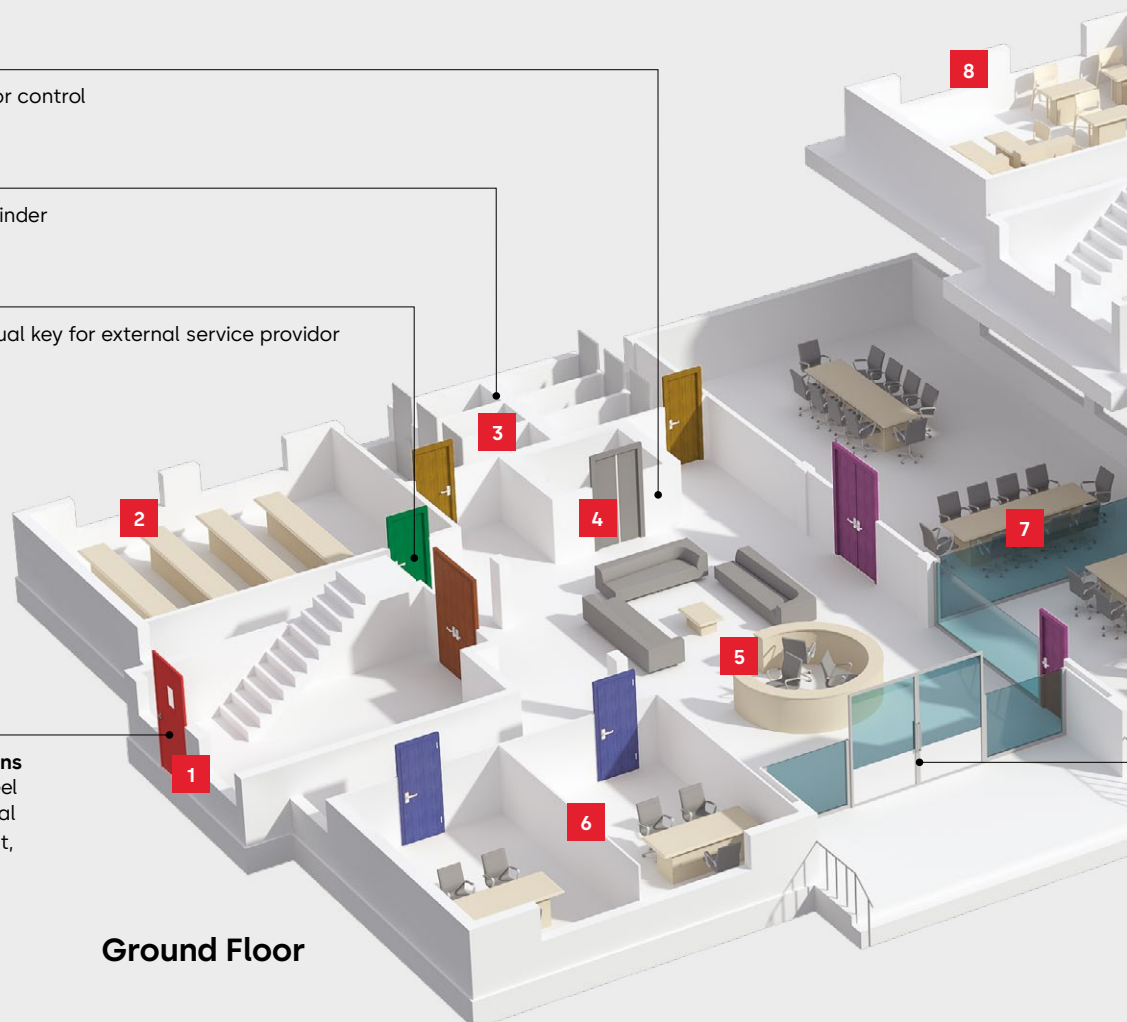
WC cylinder

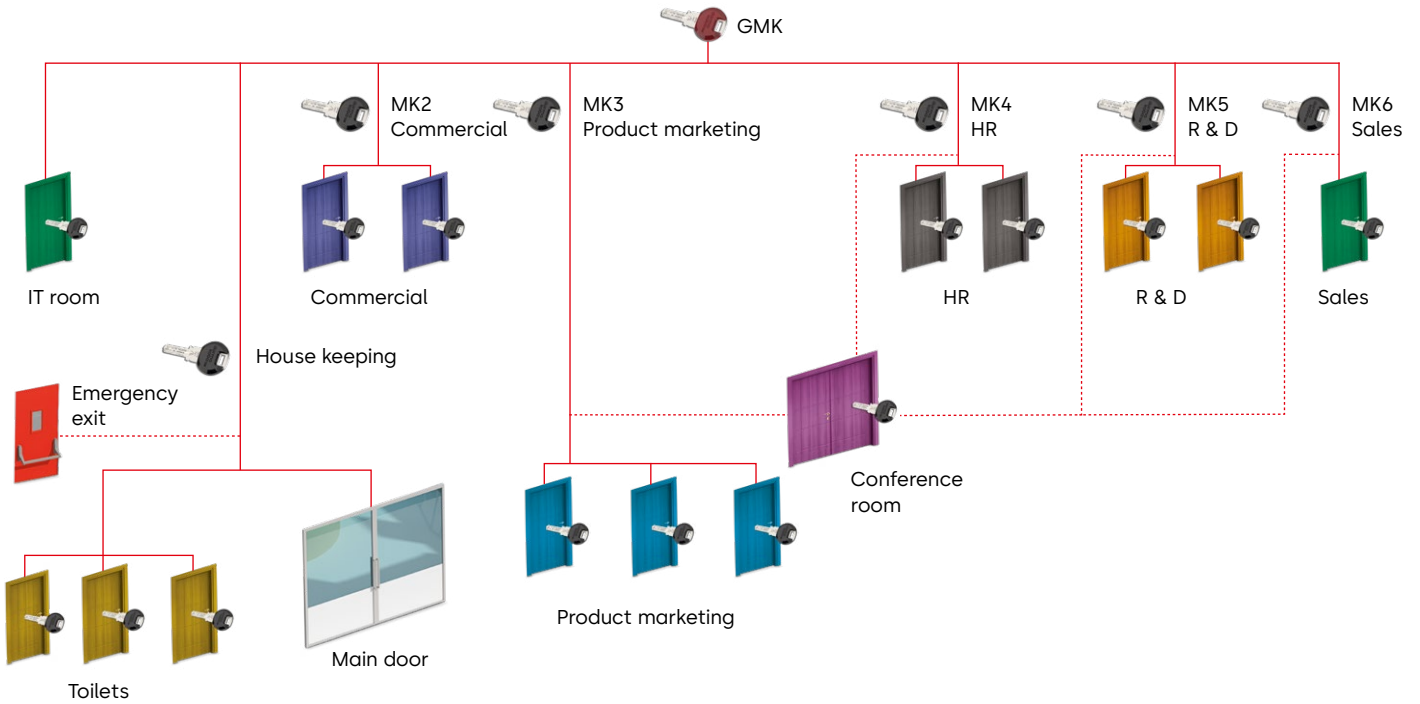
Individual key for external service provider

### Emergency exit with possible functions

- Open escape routes with free-wheel cylinders according to FZG approval
- Protection mechanism against dust, weather and insects

Ground Floor





Self changing cylinder: Modification to the access authorisation in no time

Access to furniture with HR key – sensitive documents

Double key override function – opens even if a key is inside

### First Floor

- Main door with possible functions**
- Extreme protection – VdS increased burglary protection
  - Emergency key function
  - Coloured key for easy orientation
  - Protection mechanism against dust, weather and insects



# Education

## Complex door situations including classrooms

Educational institutions have evolved from simple classroom structures and today have grown to massive complexes that accommodate multiple learning facilities. With numerous access points within a campus, maintaining a traditional key system can be very cumbersome and unsafe for the school management. That is where master key systems can substantially increase security.

Small schools to large university campuses can greatly benefit from the increased security and hassle free operating mechanism of our master key systems.

Further functions like lockers with furniture cylinders or the classroom function increase the security of the location and can also fit into the master key system.

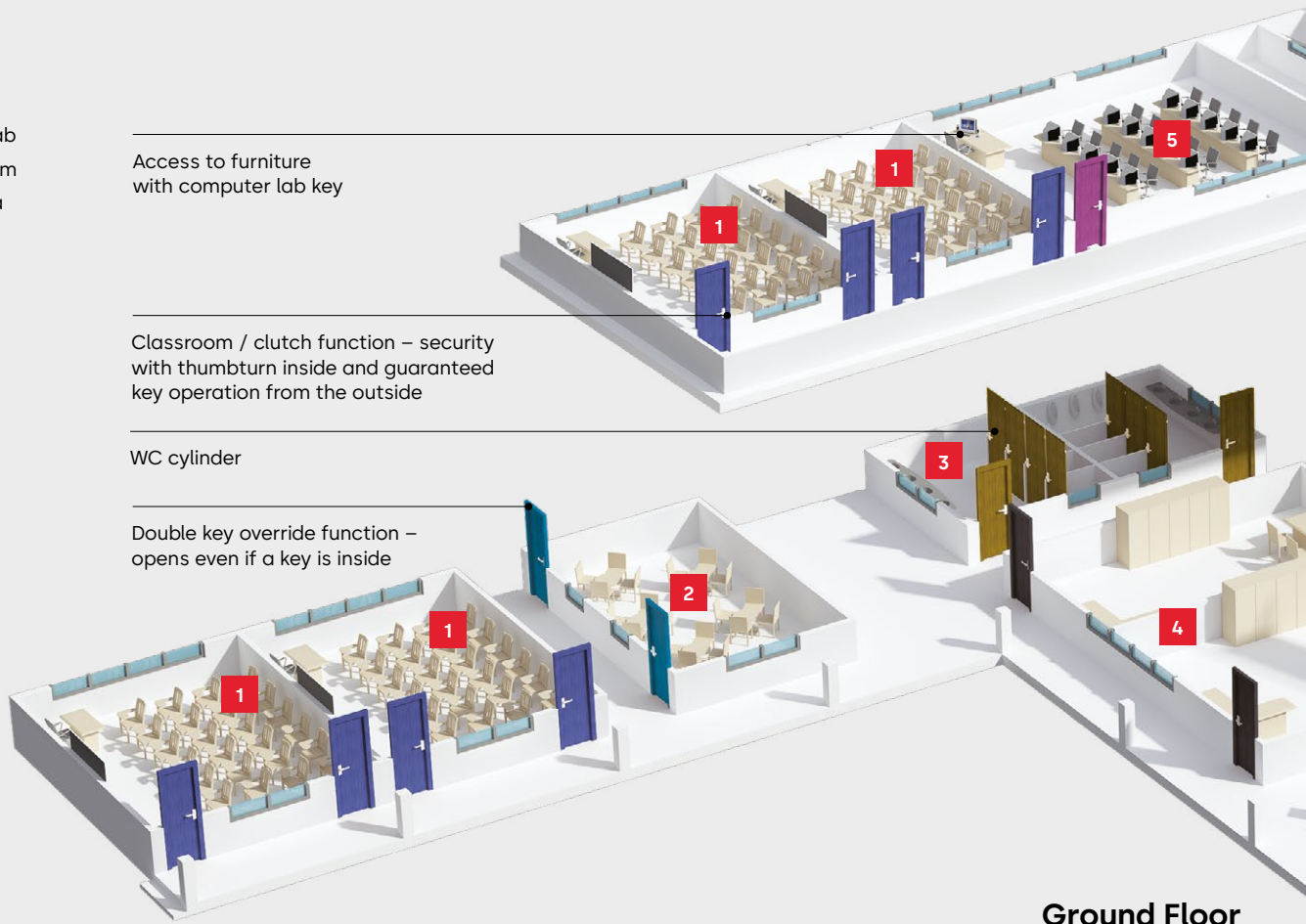
- 1 Classroom
- 2 Staff room
- 3 Toilets
- 4 Office
- 5 Computer lab
- 6 Seminar room
- 7 Activity area
- 8 Library

Access to furniture with computer lab key

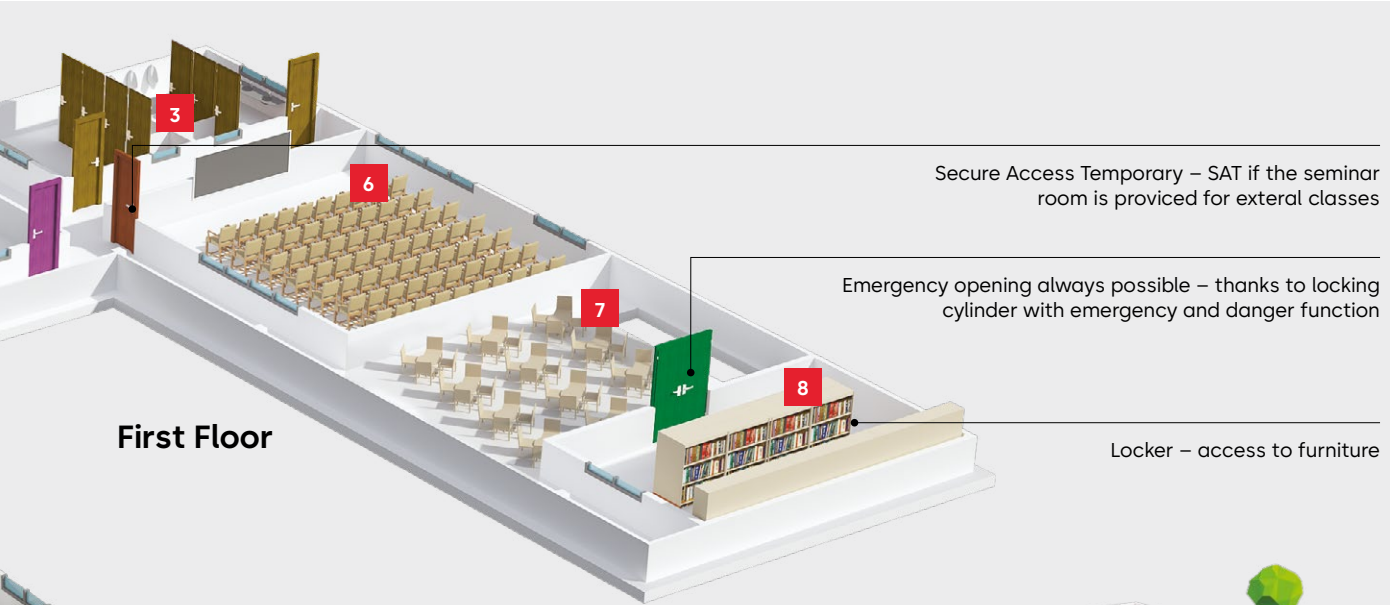
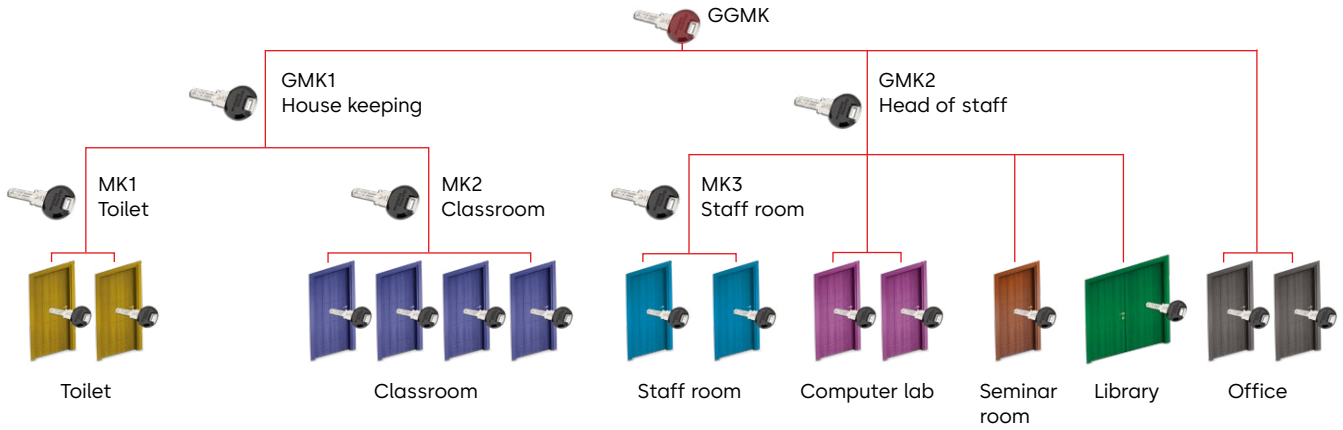
Classroom / clutch function – security with thumbturn inside and guaranteed key operation from the outside

WC cylinder

Double key override function – opens even if a key is inside

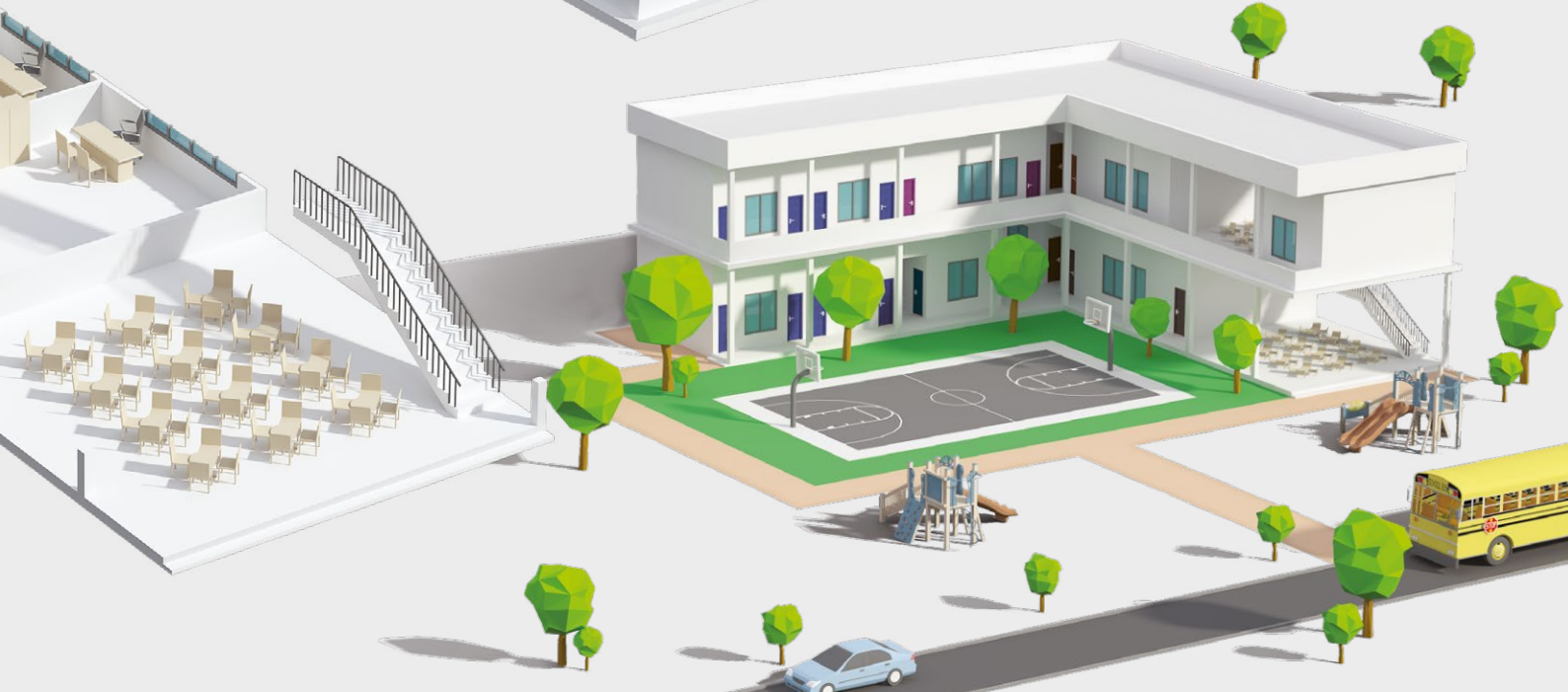


Ground Floor



**First Floor**

Locker – access to furniture

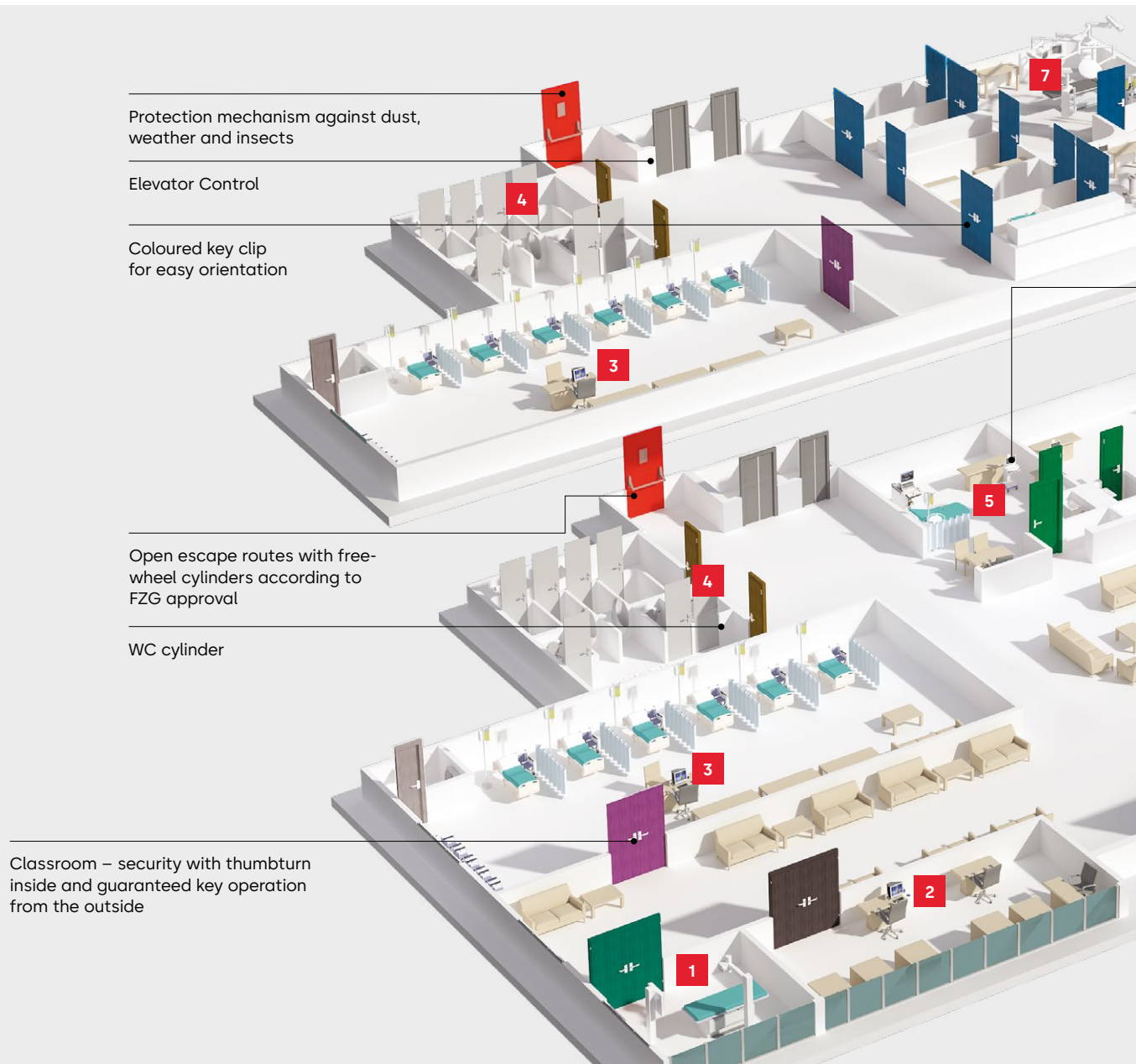


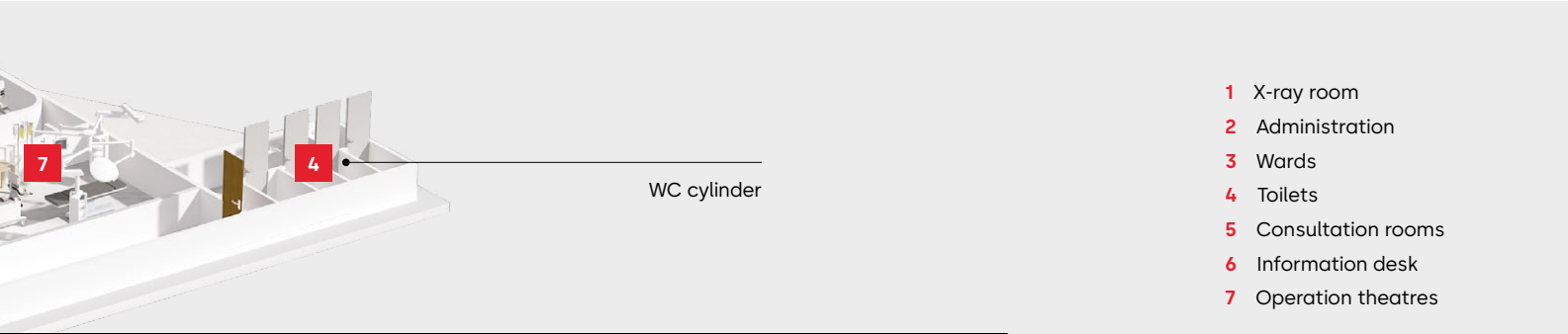
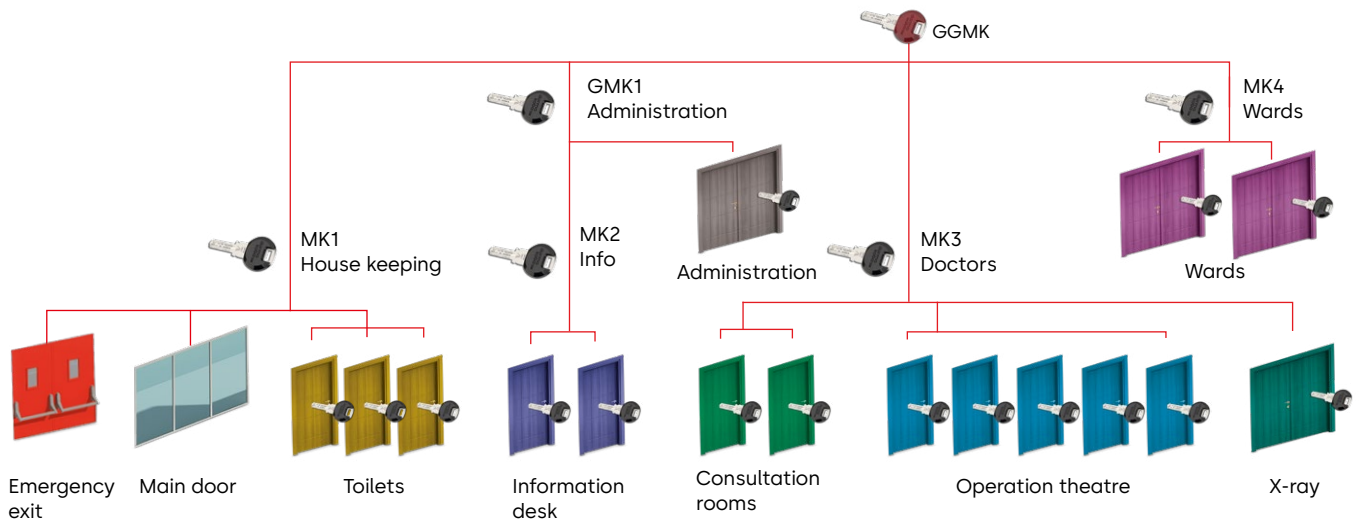
# Hospital

## Secure sensitive areas

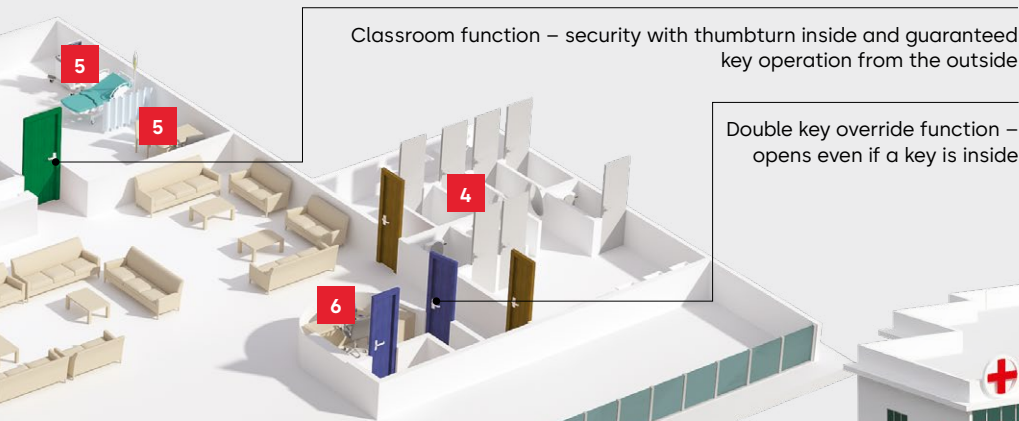
Medical care facilities have several highly sensitive areas and hence regulating access becomes critical. In such a busy environment access control has to be made operationally very convenient and at the same time, technically fail proof. Implementation of a master key system to both small clinics as well as large hospitals can increase their efficiency considerably. By applying a master key system, a medical care facility could ensure much faster access to emergency facilities like operation theatres and at the same time strictly restrict access to hazardous areas with radioactive equipment.

Medical care facilities across the globe rely on master key systems from dormakaba to ensure highly safe and secure medical environments for the patients, professionals and people in general.





Secure Access Temporary – SAT access to medicine cupboard



- Main door with possible functions**
- Extreme protection – VdS increased burglary protection
  - Emergency key function
  - Protection mechanism against dust, weather and insects



# Hotel

## Safe temporary home

A guest might select a hotel based on their preference for luxurious amenities, ambience or culinary reputation. But every time they walk into a hotel, a temporary home in a foreign land, the most important assurance sought is security, both of space – the room, and of personal information. A master key system can provide total security and convenience for both the guest and the hotel operator. Typical “back of house” hotel applications require secure locking in operational areas such as Food & Beverage management, Housekeeping as well as delivery zones. These areas are where valuable provisions and equipment needs to be securely managed. Guest Services and Financial Management areas are also where both valuable personal and financial

information are processed and stored. Staffing in hotels is very dynamic with multiple shifts across any given day necessitating locking systems which offer high levels of security, functionality and ease of management. High staff turnover means the locking system needs to be able to provide the operator with secure unauthorised key copy protection and key management systems. Master key systems with the dormakaba “Smart” keys can also work in concert with electronic door access cards and time in attendance systems. Its expandability, as the facility grows, means that for hotel and resort owners they can be confident their future plans can be accommodated with ease.

- 1 Spa
- 2 Lounge
- 3 House keeping
- 4 Toilets
- 5 Gym
- 6 Restaurant
- 7 Guest room

Thumbturn at the inside of guest rooms

WC cylinder inside of guest rooms

Access to furniture with guest key

WC cylinder

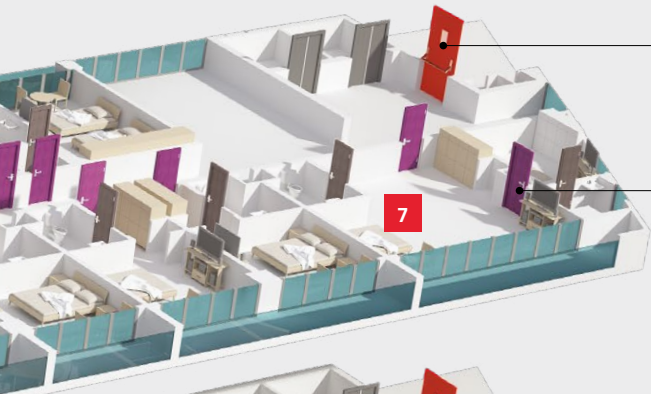
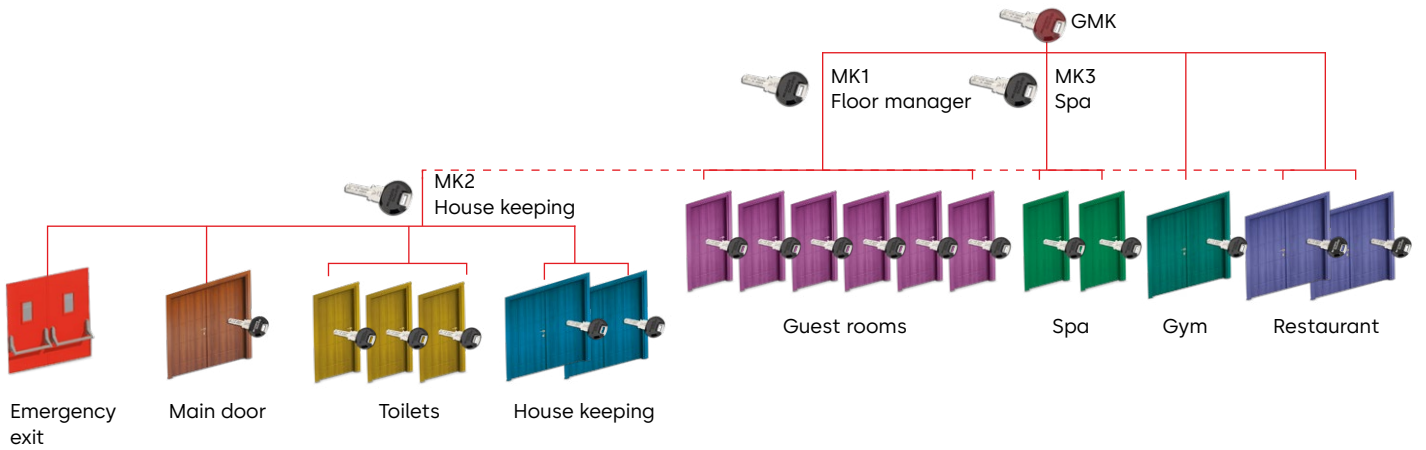
Duplo function access only when deadbolt is open

### Main door with possible functions

- Extreme protection – VdS increased burglary protection
- Protection mechanism against dust, weather and insects

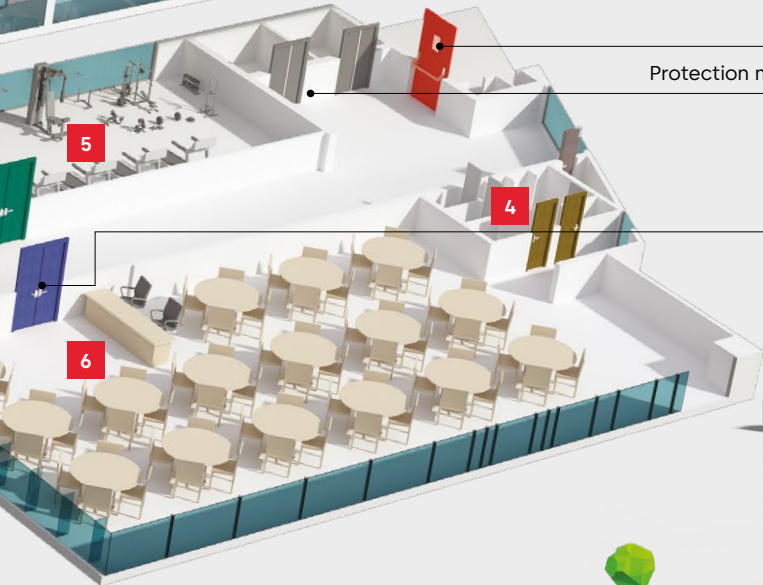






Open escape routes with free-wheel cylinders according to FZG approval

Guest room with coloured key for easy identification



Protection mechanism against dust, weather and insects

Elevator control

Classroom – security with thumbturn inside and guaranteed key operation from the outside

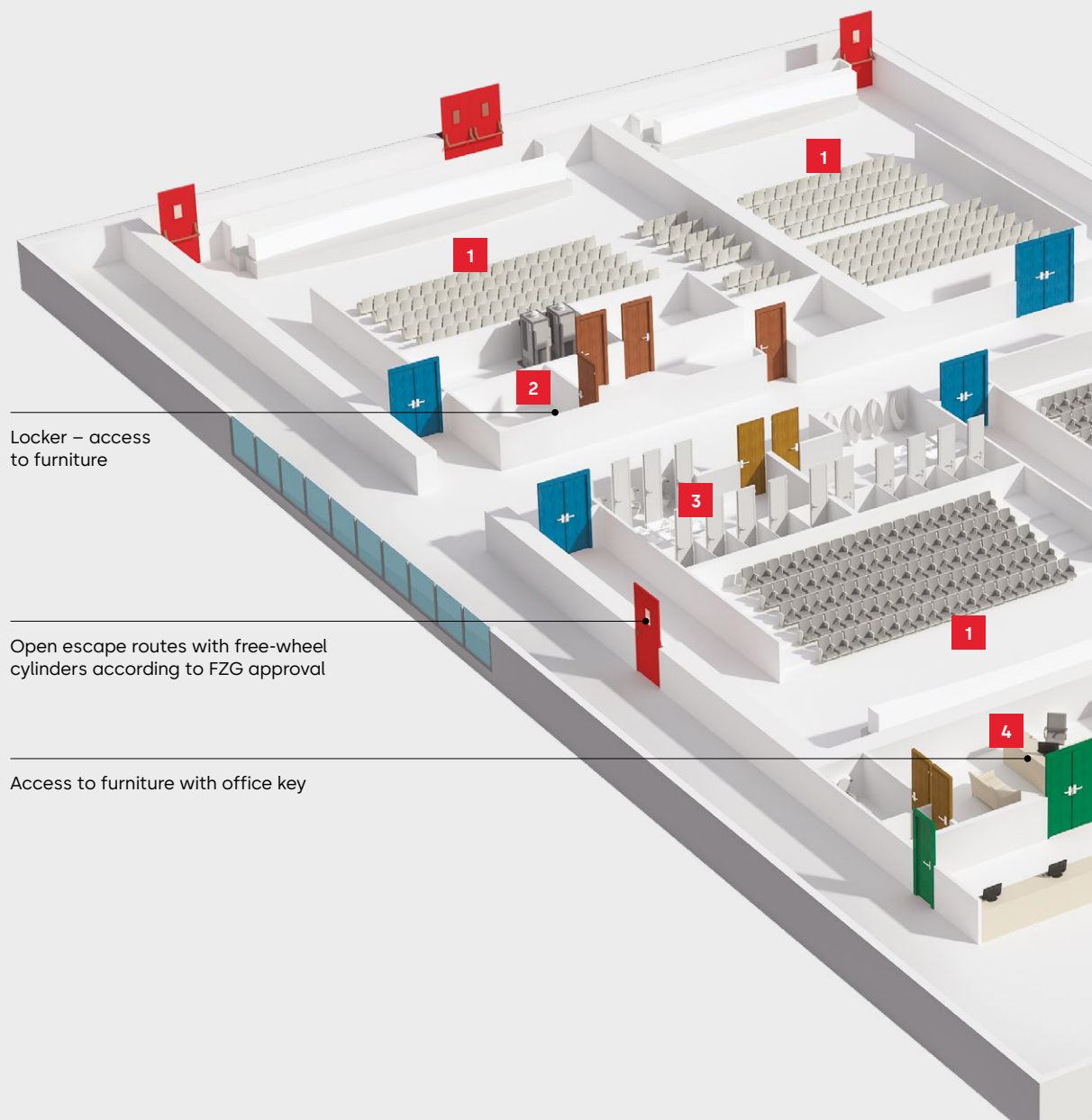


# Theatres and cinemas

## Security in entertainment

Entertainment is arguably one of the fastest growing industries and its avenues are growing at a much faster pace. Multiplexes are mushrooming even in smaller towns and as people flock in growing numbers to these spaces, better security becomes mandatory. The master key system seamlessly integrates the access mechanism for multiple screens at theatre complexes.

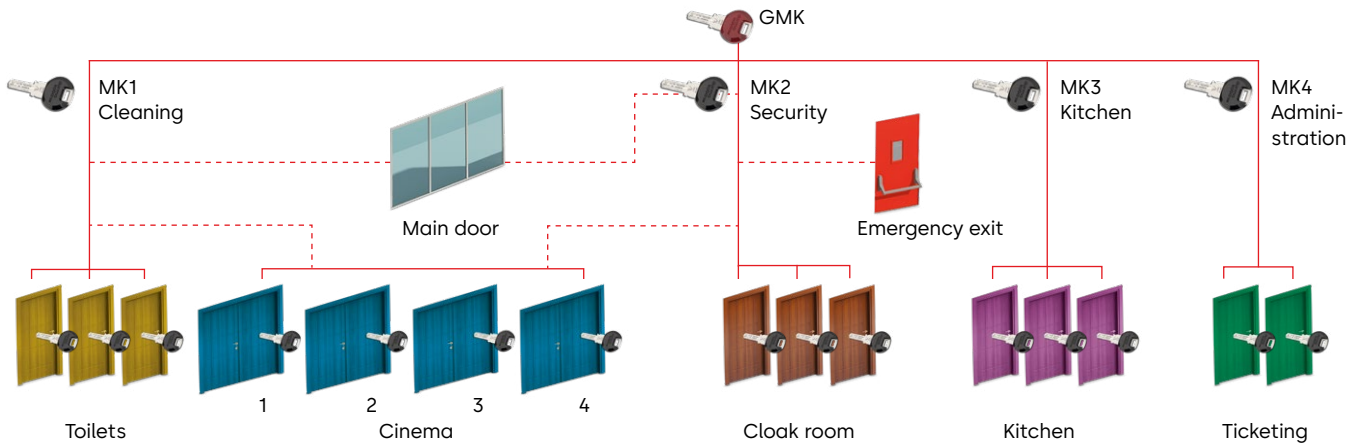
Master key systems also very efficiently manage emergency exits at large commercial spaces like these and makes it extremely hassle free for the staff during an emergency situation. With the free-wheel cylinders according to FZG approval open escape routes are guaranteed in case of an emergency.



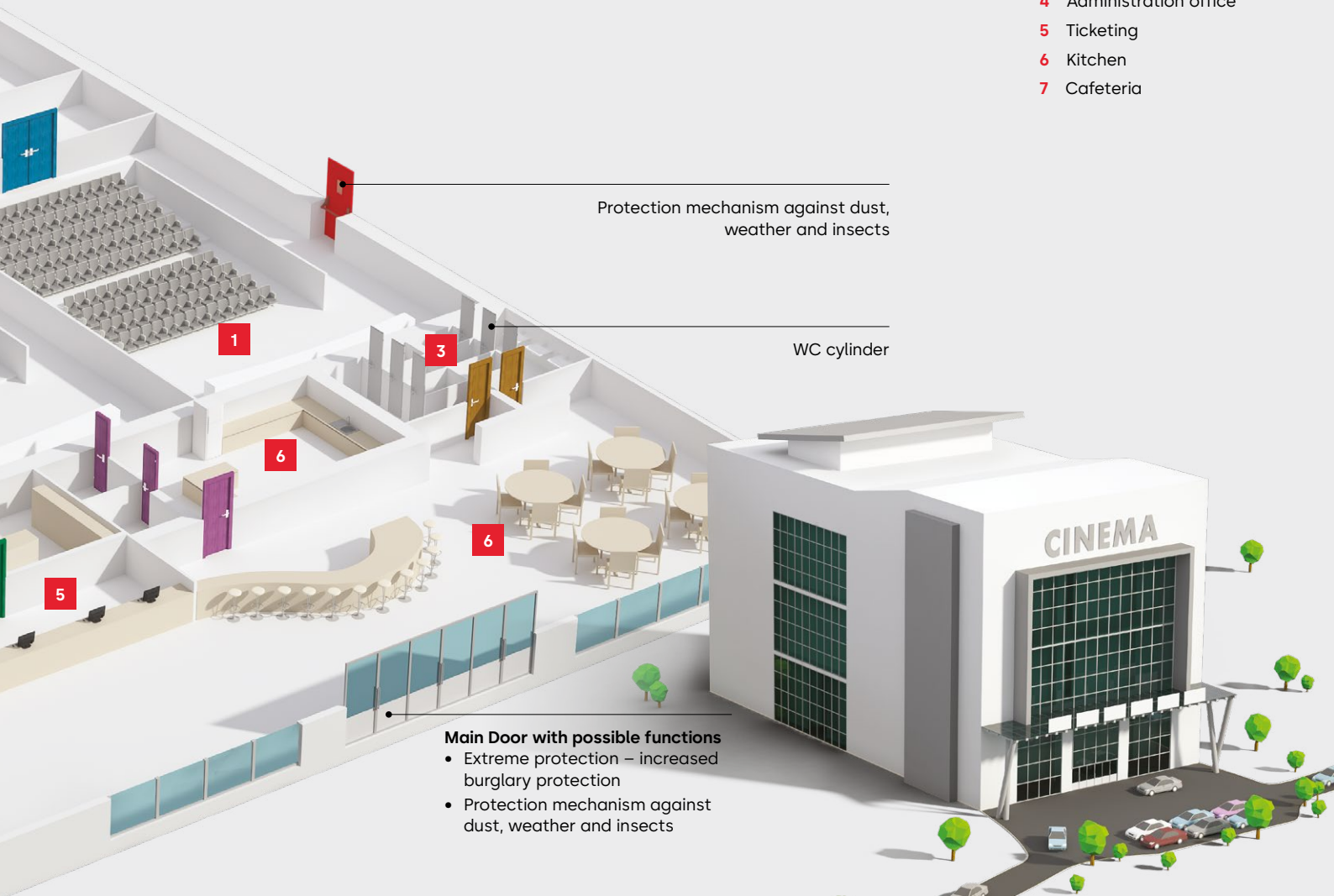
Locker – access to furniture

Open escape routes with free-wheel cylinders according to FZG approval

Access to furniture with office key



- 1 Cinema
- 2 Security deposit
- 3 Toilets
- 4 Administration office
- 5 Ticketing
- 6 Kitchen
- 7 Cafeteria



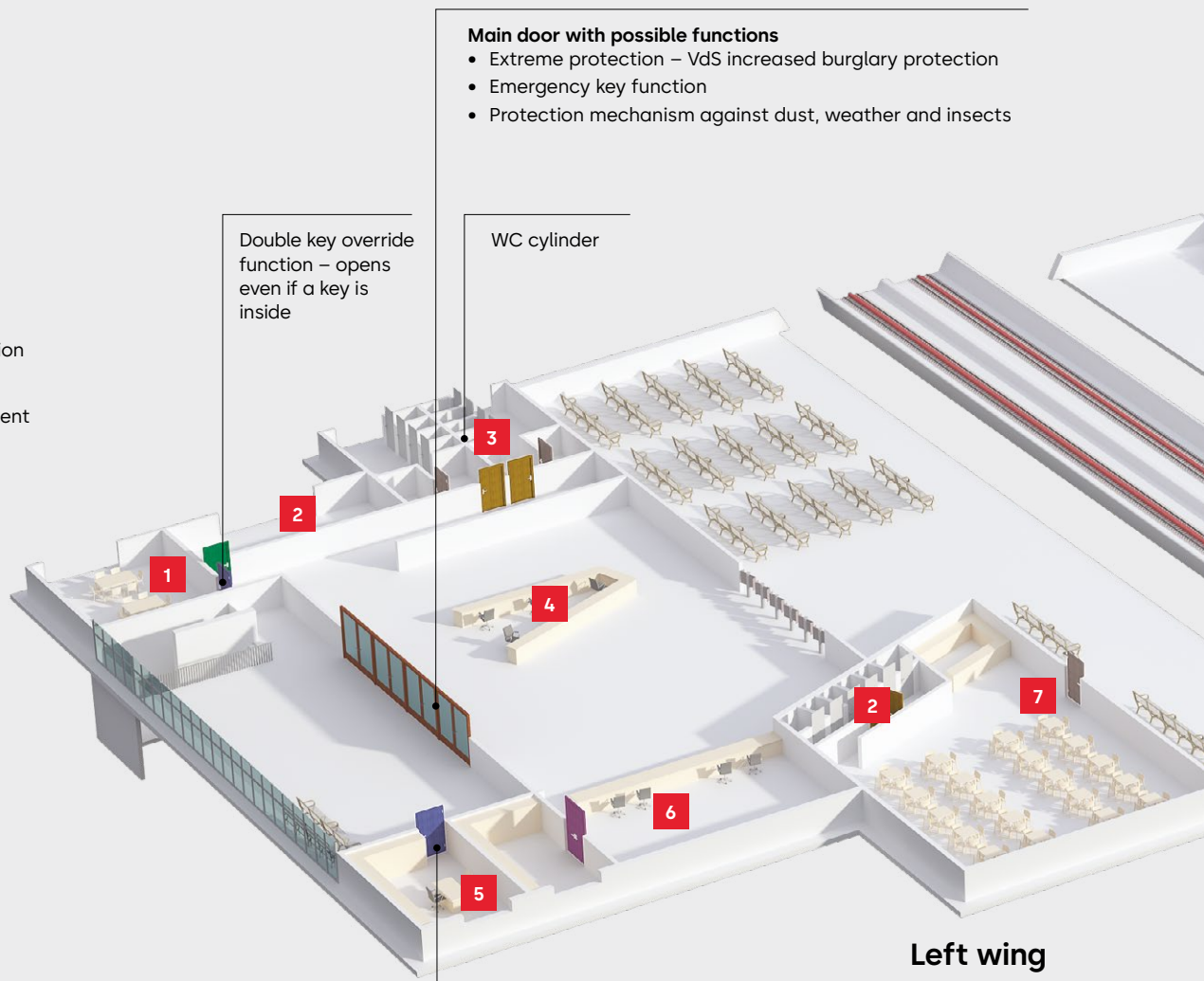
# Train stations

## Public space with high security areas

Threat levels at public spaces have exponentially increased the world over and today public spaces demand the highest level of security measures. For example, a train station involves very high public safety and also massive infrastructural costs. But due to the vulnerability of an open public environment like this, ensuring security becomes technically challenging. This is where master key systems come in handy.

It distinguishes and facilitates easy movement across areas accessed by passengers yet strictly secludes high security departments such as the traffic control room, the ticketing cash room, the power room, signaling equipment room, etc. Several airports, train stations, malls and other public spaces around the world have been secured by dormakaba master key systems.

- 1 Staff room
- 2 Power room
- 3 Toilets
- 4 Help desk
- 5 Cash room
- 6 Ticketing
- 7 Waiting lounge
- 8 Technical room
- 9 Train crew room
- 10 Battery room
- 11 Auxiliary sub station
- 12 SCR
- 13 Signalling equipment room



### Main door with possible functions

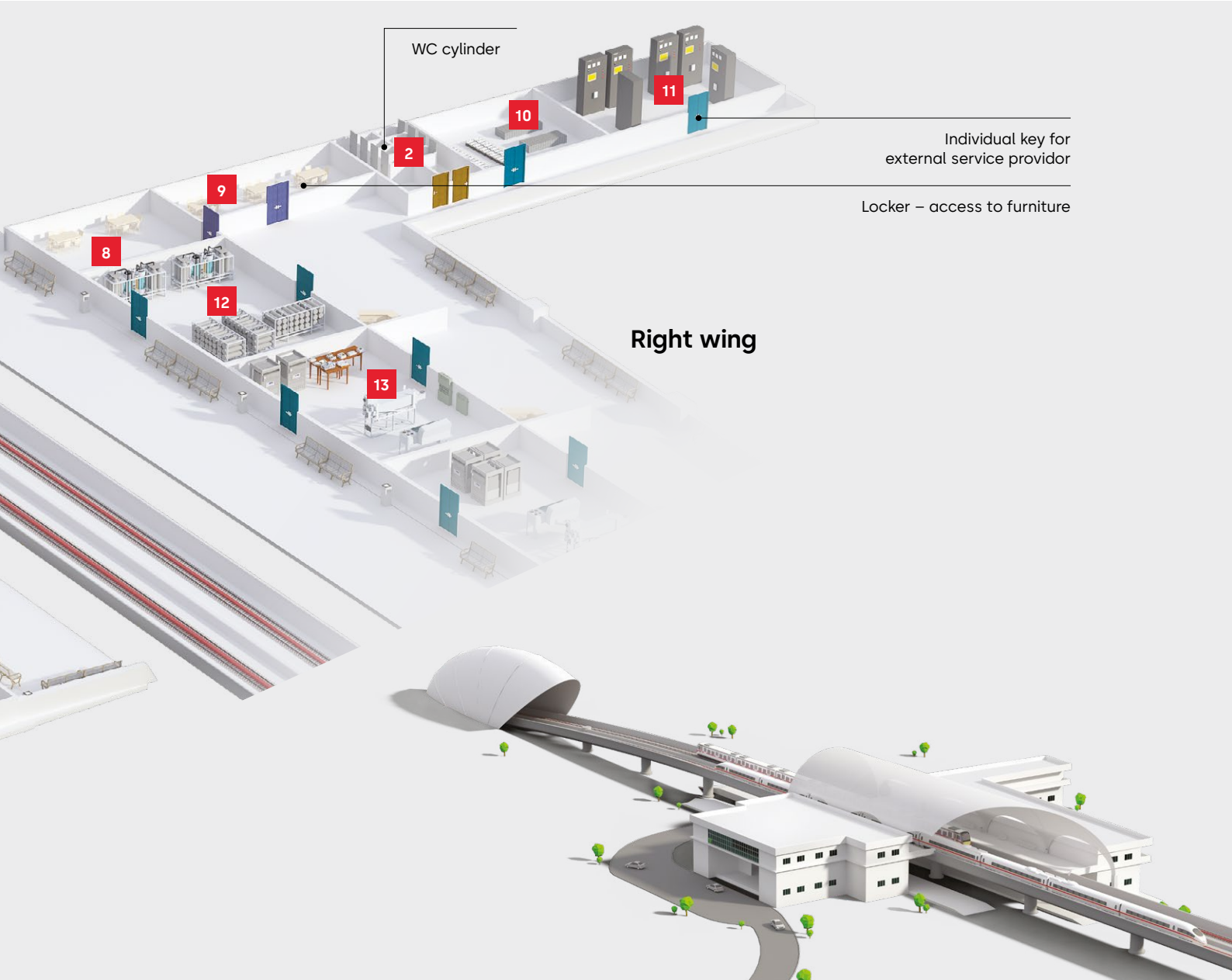
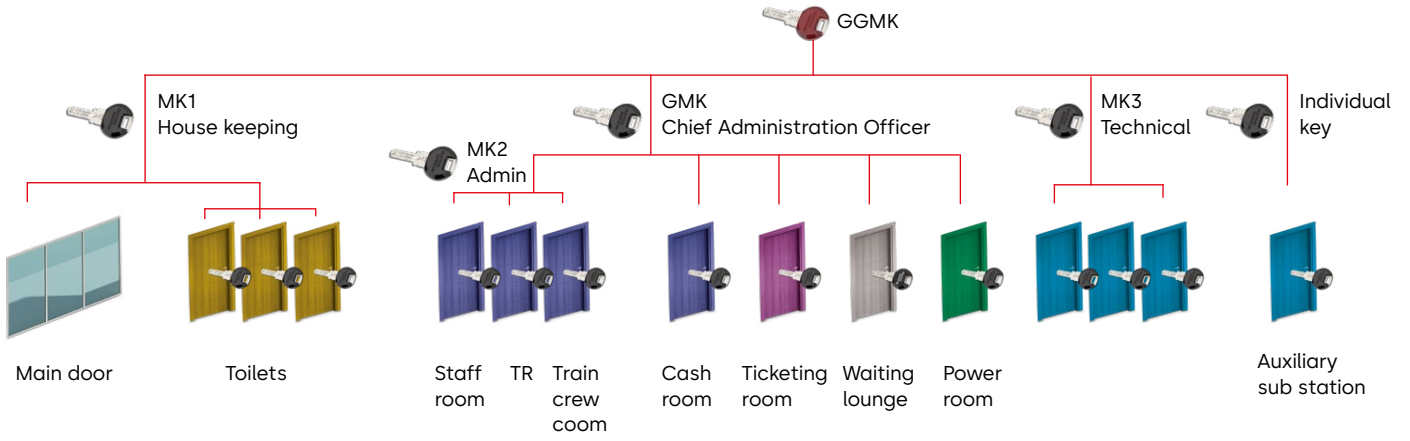
- Extreme protection – VdS increased burglary protection
- Emergency key function
- Protection mechanism against dust, weather and insects

Double key override function – opens even if a key is inside

WC cylinder

Left wing

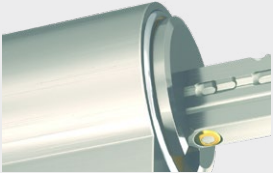
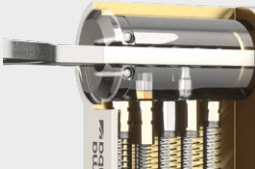

- Self changing cylinder: Modification to the access authorisation in no time



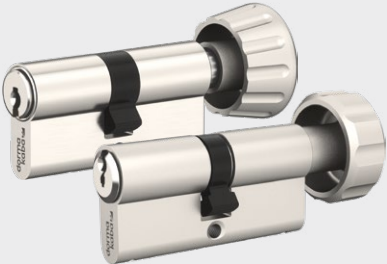



# Functions




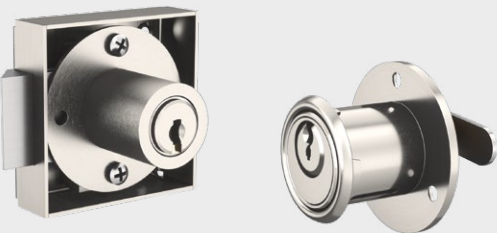
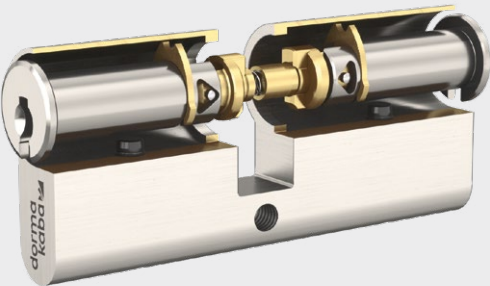
# Optional added value with various functions

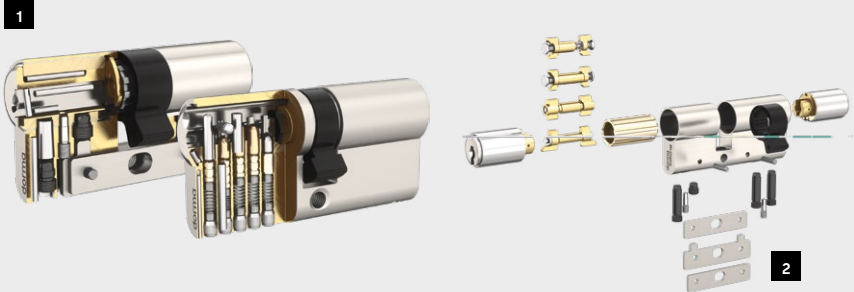


Functions	Available systems	Applications
<p><b>Self changing cylinder: Modification to the access authorisation in no time</b></p> <p>With the special functions <b>BAZ</b> or <b>SUZ</b>, you can very easily control the access authorisations of different keys or key groups. For this, you can use a changing key (BAZ) or the next key generation (SUZ), depending on the system. Thus, you change the pin combination in the cylinder so that the previously used keys no longer have locking authorisation. You can carry out this process up to two times. This means you can react flexibly, without having to replace the lock cylinder.</p> <p><b>Modification to the cylinder lock without replacing it:</b></p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>BAZ for reversible keys with changing key</p> </div> <div style="text-align: center;">  <p>SUZ – changing with the next key generation</p> </div> </div>	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> </ul>
<p><b>Double key override function (BSZ)</b></p> <p><b>“Never be locked out again...”</b>            Sometimes it happens (voluntary or not) that a key is left in the lock. With a standard cylinder you will not be able to open the lock from the outside, because the key on the inside is blocking the cylinder – dormakaba has the solution!</p> <p>The BSZ-function enables you to open the cylinder in any way at any time – also when a key is left in the lock on one side you can always open on the other side. So you cannot be locked out.</p> <div style="text-align: center;">  </div>	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>



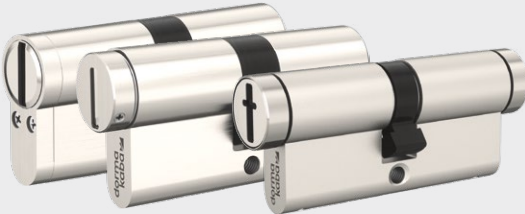


Functions	Available systems	Applications
<p><b>Restricted movement Cylinder (Classroom Function)</b></p> <p>The innovative design of the restrictive movement cylinder ensures the door is guarded against being locked from within the room. The cylinder also guarantees that authorised key operation from the external side is maintained even if the internal thumbturn is being held by the occupant in an attempt to prevent access.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Coloured key clips</b></p> <p>Keys are even easier to identify with coloured clips. The reversible keys are available as smart keys and large keys in 12 clip colours each. For serrated keys, you can choose from 11 colours for large clips and 5 colours for miniclips from our standard range. You can get our trendkey in the colours: dark blue, light blue, red, green and black. Keys with a metal bow are delivered without a coloured part as standard. But red, green and black colouring is available, if desired.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Emergency key function (GF)</b></p> <p>For hotels, guesthouses, retirement homes, boarding schools, schools, etc., where the greatest security must be available for emergencies. The emergency key override function also fulfills the lockout function desired in hotel complexes. The advantage is that the special emergency key can be opened from the outside, even when there is a key inserted on the inside. Thus, the access is guaranteed at any time in an emergency. The emergency function can only be installed on one side and the emergency override key must be ordered separately.</p>  	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>

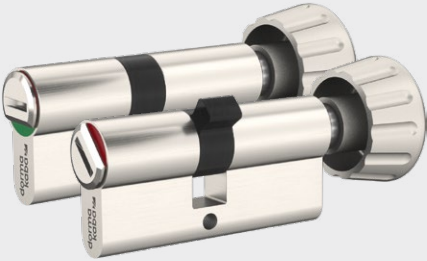
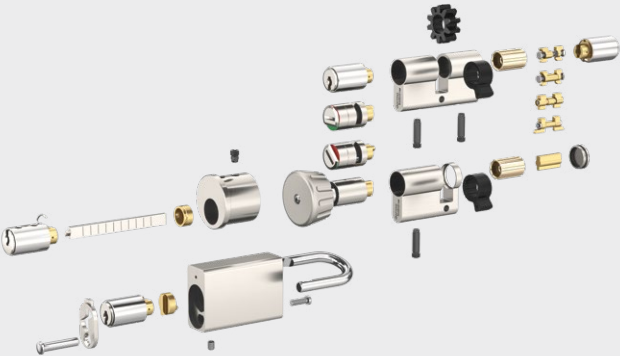
# Optional added value with various functions

Functions	Available systems	Applications
<p><b>Elevator control and switch cylinder</b></p> <p>Control your elevator by the turn of a key. Different types of elevator control as well as different switch cylinder with on/off or impulse function to control electric devices are available.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Furniture cylinders</b></p> <p>Different furniture locks and cylinders for applications within furniture are available. Whether you want to lock your files, personal documents or valuables securely. With your individual key from the master key system you always have access.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Freewheel cylinders for gear operated and emergency locks (FZG)</b></p> <p>The cam of the double cylinder with 360° freewheel can be turned freely when no key is inserted. When a key is inserted, a fixed connection is made between the key and the cam. As soon as the key is removed, the cam returns to 360° freewheel. Emergency route locks can be unlocked with an authorised key, even if a key is inserted in the opposite side of the cylinder. Also for thumbturn and double cylinders in connection with multiple point gear door locks.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>


Functions	Available systems	Applications
<p><b>Extreme protection – increased burglary protection</b></p>		
<p><b>High end security</b>  <b>Pulling and drilling protection</b>                      To protect your home from burglaries, you should switch to the latest technologies. The housing of this lock cylinder is strengthened with steel reinforcement plates for an additional pulling protection (fig. 2). The version with steel reinforcement plates is certified in accordance with BS EN 1303:2015-08 attack resistance grade D. Hardened steel pins in the insert and housing ensure an additional protection against drilling (fig. 1). These highly secure cylinders are certified in accordance with VdS B, BZ for individual locking and locking systems.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• Education</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Padlock</b></p>		
<p>Integrated into your master key system you can also use padlocks with your key. Different types are available.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Education</li> </ul>
<p><b>Secure Access Temporary (SAT)</b></p>		
<p>In the normal (vertical) key removal position the cylinder can only be operated from the outside by the proprietor key. In the service position the lock cylinder can be opened and locked from the outside and inside by the service and proprietor keys.</p> <p><b>SAT-function with reversible key systems</b></p>  <p>Keyway in normal position: 6 o'clock      Keyway in service position: 8 o'clock</p>	<p>Only available with</p> <ul style="list-style-type: none"> <li>• dormakaba expert plus</li> <li>• dormakaba quattro plus</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Small business</li> <li>• Education</li> </ul>

# Optional added value with various functions

Functions	Available systems	Applications
<p><b>Duplo function (DF)</b></p> <p><b>Access to specific door</b> Cylinders have two types of keys. One key operates the latch of the lock and the other key operates the latch and the deadbolt. When deadbolt is withdrawn, the key that operates the latch will work. When the deadbolt is engaged, the key that operates the latch will not work.</p>	<ul style="list-style-type: none"> <li>all reversible and serrated key systems – lock with interchangeable function required</li> </ul>	<ul style="list-style-type: none"> <li>Apartment buildings</li> <li>Office</li> <li>Train station</li> <li>School</li> <li>Hospital</li> <li>Hotel</li> <li>Theatre/Cinema</li> </ul>
<p><b>Protection mechanism against dust, weather and insects</b></p> <p>If required you can protect the outside of the cylinder and extend the mechanical life. Choose from different options – the insert dust and weather protection cap or the full cylinder protection device, whose spring loaded plates are pushed open when inserting the key and spring closed when the key is retracted.</p> 	<ul style="list-style-type: none"> <li>all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>Home</li> <li>Office</li> <li>Train station</li> <li>Education</li> <li>Hospital</li> <li>Hotel</li> <li>Theatre/Cinema</li> </ul>
<p><b>Thermally insulated cylinder (TIC)</b></p> <p><b>Cold outside – dry inside</b> The construction provides protection against condensation on the inside of the door (even in extremely cold outside temperatures). Additionally, it protects against rain and reduces drafts through the cylinder.</p> 	<ul style="list-style-type: none"> <li>all reversible key systems</li> </ul>	<ul style="list-style-type: none"> <li>Home</li> </ul>
<p><b>Thumbturn</b></p> <p>The thumbturn is on the inside and allows you to lock and unlock doors from the inside without a key. Depending on the application you can choose different thumb-turn models.</p>  <p>Standard thumbturn                      Thumbturn with design knob</p>	<ul style="list-style-type: none"> <li>all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>Home</li> <li>Apartment buildings</li> <li>Office</li> <li>Train station</li> <li>Education</li> <li>Hospital</li> <li>Hotel</li> <li>Theatre/Cinema</li> </ul>

Functions	Available systems	Applications
<p><b>WC or bathroom cylinder</b></p> <p>For WC or bathroom doors. Visual indication from the outside, whether the toilet or the bathroom is occupied (red) or vacant (green). Can be opened from the outside in case of emergency.</p> 	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• School</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>The dormakaba modular system</b></p> <p>The modular system allows cylinders to be rebuilt on site to other lengths or even other cylinder types with little effort. The keying remains unchanged.</p> 	<ul style="list-style-type: none"> <li>• all reversible key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• School</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Cylinder types</b></p> <p>Cylinders are available for different types and uses cases:</p> <ul style="list-style-type: none"> <li>• Double, single and thumbturn cylinders in Europrofile, Swiss round profile, Scandinavian and Union oval profiles, French round profiles</li> <li>• Outside and inside cylinders for surface mounted locks</li> <li>• Furniture cylinders and locks</li> <li>• Camlock cylinders</li> <li>• Key switch cylinders</li> <li>• Elevator control cylinders</li> <li>• Padlocks</li> <li>• Window handles and olives</li> <li>• Key deposit tubes</li> <li>• Key storage cabinets</li> </ul>	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• School</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>

# Optional added value with various functions

Functions	Available systems	Applications
<p><b>Mechatronic and electronic</b></p> <p><b>Stay flexible, stay secure</b>                      Aside from mechanical key systems, we also offer mechatronic and electronic solutions for modern access and security management. Our keys can also be retrofitted with an electronic chip, for instance. The dormakaba smart key can be combined with all dormakaba mechanical and electronic door components.</p> <p><b>Reversible key and serrated key with RFID transponder clip</b></p>  <p><b>Mechatronic cylinder</b>                      <b>Digital cylinder</b></p>	<ul style="list-style-type: none"> <li>• reversible key for mechatronic systems</li> <li>• serrated or reversible key systems for electronic solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• School</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Security card as user ID</b></p> <p>Use your security card to identify yourself as the legal owner of your mechanical key system. Should you wish or need to order duplicate keys or additional lock cylinders your security card simplifies the order process, as well as preventing access to duplicate keys by unauthorised persons.</p>	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• School</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>
<p><b>Applications or OEM</b></p> <p>dormakaba specialises in fulfilling special requirements. More than 1,000 applications have been realised for customer specific applications. If you require a special solution please do not hesitate to contact us with your inquiry.</p>	<ul style="list-style-type: none"> <li>• all reversible and serrated key systems</li> </ul>	<ul style="list-style-type: none"> <li>• Home</li> <li>• Apartment buildings</li> <li>• Office</li> <li>• Train station</li> <li>• School</li> <li>• Hospital</li> <li>• Hotel</li> <li>• Theatre/Cinema</li> </ul>

Functions	Available systems	Applications
Zylinderoberflächen*	<ul style="list-style-type: none"> <li>all reversible and serrated key systems</li> </ul>	
 <p><b>01</b> NI   Natural nickel*</p>  <p><b>02</b> MS   Natural brass*</p>  <p><b>03</b> CR   Chrome-plated standard</p>  <p><b>04</b> NIC   Chemically nickel-plated</p>  <p><b>05</b> BM   Medium brown</p>  <p><b>06</b> MP   Polished brass</p>  <p><b>07</b> BD   Dark brown</p>  <p><b>08</b> BKM   Black matt</p>  <p><b>09</b></p>		
 <p><b>01</b> Nickel-plated (NI)<sup>1)</sup></p>  <p><b>02</b> Brass, matt (MS)<sup>1)</sup></p>  <p><b>03</b> Chrome-plated, matt (CRM)</p>  <p><b>04</b> Chrome-plated, polished (CRP)</p>  <p><b>05</b> Brass, brushed (MB)</p>  <p><b>06</b> Brass, polished (MP)</p>  <p><b>07</b> Chemical black processed, medium (BM)</p>  <p><b>08</b> Chemical black processed, dark (BD)</p>  <p><b>09</b></p>  <p><b>10</b> Black, matt (BKM)</p>		

\* Colours symbolically and not for all cylinder designs or thumb turn knobs. Sometimes slightly different colours between reversible and serrated key systems.

# Combination of functions – reversible key systems

The following table provides an overview of the special functions available, their possible combinations with each other and the availability of the cylinder types.

Combination options for cylinder types	Order code	BAZ	BAZ3	BSZ	DF	FZG	GF	PF	ZR	RB	KT	SSW	SIS	NIC	TIC	SAT2	SAT1	LAM	VDSB	VDSBZ
Double cylinder	DZ	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•
Single cylinder	HZ	•	•		•	•			•	•	•	•	•	•		•	•			•
Thumbturn	DKZ	•	•		▲	•		•	•		•	•	•	•		•	•	•		
Thermally insulated cylinder – double cylinder	DZ/TIC	•	•	•					•					•	•					
Thermally insulated cylinder – thumbturn cylinder	DKZ/TIC	•	•	•					•					•	•					
<b>Combination options for special functions</b>																				
Construction time function – change keying 1 x	BAZ			•		•	•	•	•	•		•	•	•	•			•	•	•
Construction time function – change keying 2 x	BAZ3			•		•	•	•	•	•		•	•	•	•			•	•	•
Double key override	BSZ				•				•	•	•	•	•	•	•	•	•	•	•	•
Duplo function	DF						•	•	•		•	•	•	•				•	•	•
Freewheel cylinder for gear-operated locks	FZG								•		•	•	•	•			•	•	•	•
Emergency key function	GF								•	•							•	•	•	•
Priority function	PF								•	•	•	•	•	•			•	•	•	•
Cogwheel cam	ZR									•	•	•	•	•	•		•	•	•	•
Relative cam movement	RB										•	•	•	•	▲		•	•	•	•
Contact pin	KT											•	•	•			•			
<b>Combination options for dust and whether protection</b>																				
Dust and splash protection	SSW													•	•	•	•	•		▲
Dust and insect protection	SIS													•		•	•	•		
Chemically nickel plated	NIC														•	•	•	•	•	•
Thermally insulated cylinder	TIC																			
Secure Access Temporary Function 2	SAT2																•	•		
Secure Access Temporary Function 1	SAT1																	•		
<b>Combination options for increased burglary protection</b>																				
Steel reinforcement plate	LAM																			
VdS certified: drilling protection class B	VDSB																			
VdS certified: pulling and drilling protection class BZ	VDSBZ																			

• Combination possible      ▲ Combination possible on request



# Combination of functions – serrated key systems

The following table provides an overview of the special functions available, their possible combinations with each other and the availability of the cylinder types.

Combination options for cylinder types	Order code	SUZ	BAZ	PS	BSZ	ZR	FZG	GF	FL	SSW	SWF	VK	VDSA	VDSAZ	VDSB	VDSBZ	LAM	AS	SBS
Double cylinder	DZ	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•
Single cylinder	HZ	•	•			•	•		•	•	•	•	•	•				•	•
Thumbturn	DKZ	•	•			•	•			•	•	•					•		•
<b>Combination options for special functions</b>																			
Self-adjustable lock cylinder – twice adjustable without separate key	SUZ			•	•	•	•	•	•	•	•	•					•	•	•
Construction time function – change keying 1	BAZ			•	•	•	•	•	•	•	•	•					•	•	•
Cylinder with personnel key	PS	•	•			•				•	•	•					•	•	•
Double key override	BSZ	•	•			•				•		•	•	•	•	•	•	•	•
Cogwheel cam	ZR	•	•	•	•			•		•		•	•	•	•	•	•	•	•
Freewheel cylinder for gear-operated locks	FZG	•	•							•	•	•					•	•	•
Emergency key function	GF	•	•			•				•		•					•	•	•
Relative cam movement	FL	•	•							•	•	•	•	•	•	•		•	•
<b>Combination options for dust and whether protection</b>																			
Dust and splash protection	SSW	•	•	•	•	•	•	•	•			•						•	
Seawater resistant	SWF	•	•	•			•		•			•							•
Chemically nickel plated	VK	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
<b>Combination options for increased burglary protection</b>																			
VdS certified: drilling protection class A	VDSA				•	•			•			•							
VdS certified: drilling protection class AZ	VDSAZ				•	•			•			•							
VdS certified: drilling protection class B	VDSB				•	•			•			•							
VdS certified: pulling and drilling protection class BZ	VDSBZ				•	•			•			•							
Steel reinforcement plate	LAM	•	•	•	•	•	•	•				•							•
Protected against pulling	AS	•	•	•	•	•	•	•	•	•		•							
Sacrificial Cut	SBS	•	•	•	•	•	•	•	•	•	•	•					•		

- Combination possible

# Think Tomorrow

We are committed to championing sustainability in everything we do, from producing greener access solutions to being a fair and responsible employer and neighbor.



Sustainability is at the core of our vision, which underlines our long-term commitment to shaping a more sustainable industry and future.

In our sustainability framework we focus on three pillars: People, Planet and Partnerships supported by over 30 concrete targets.

**People: we empower our people so that they can unlock their full potential**

We create a fair, inclusive and safe culture which enables our employees to thrive. We provide a workplace where they can continuously grow, openly contribute with their ideas and feel proud of their achievements.

**Planet: we open the doors wide to a low-carbon and circular economy**

We develop innovative and resource efficient solutions for the circular economy and do our part to ensure a climate resilient future. We offer durable and energy efficient products that help our customers achieve their own sustainability goals.

**Partnerships: we collaborate to promote sustainable development beyond our own doors**

We lead by example and engage with our partners to drive more eco-friendly practices and support the protection of human rights. Through our secure access solutions, we also contribute to people's health and safety. We work with partners to raise awareness on safe operating practices of our products.

**Key figures 2022/23**

**240**

sustainability-related product declarations/certifications

**-13%**

reduction in CO<sub>2</sub> in our operations (Scope 1+2) vs. baseline FY 2019/20

**100%**

of new product developments and optimizations are covered by our circular economy guidelines

**1,261**

unsafe observations were submitted in an effort to have a more proactive safety culture

**546**

high-risk suppliers assessed for sustainability by a third-party since financial year 2019/20

## Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

[www.dormakaba.com/sustainability](http://www.dormakaba.com/sustainability)



## Our offering

### Access Automation Solutions

Entrance Automation  
Entrance Security



### Access Control Solutions

Electronic Access & Data  
Escape and Rescue Systems  
Lodging Systems



### Access Hardware Solutions

Door Closers  
Architectural Hardware  
Mechanical Key Systems



### Services

Technical Support  
Installation and commissioning  
Maintenance and Repair



WN 05474951532, EN, 01/2024  
Subject to change without notice



[dormakaba.com](http://dormakaba.com)

**dormakaba**  
**International Holding AG**  
Hofwissenstrasse 24  
CH-8153 Rümlang  
T +41 44 818 90 11  
[info@dormakaba.com](mailto:info@dormakaba.com)  
**dormakaba.com**