FLEXIBLE DOOR SOLUTIONS FOR VARIOUS BUILDING TYPES
KONE sliding doors provide smooth people flow in a wide variety of building types, from offices to retail environments and transit centres. There are automatic sliding door solutions for entrances as well as inside facilities.

**WHY KONE?**

- KONE understands the people flow needs of different building types, customers and end-users and offers a complete range of integrated people flow solutions: building doors, turnstiles, elevators and escalators
- By being continuously present in the building through comprehensive service, we know how the whole building is used during its life cycle

**KEY BENEFITS OF KONE SLIDING DOORS**

**SAFETY**

- Compliance with all relevant European standards (including EN16005)
- Multiple safety features

**RELIABILITY**

- Manufactured at KONE’s own door factory in the Netherlands from durable materials
- Designed, tested, and supplied as complete systems

**DESIGN**

- Flexible design, wide range of visual options
- Customisable for each individual building
- Space-efficiency

**SUSTAINABILITY**

- Environmental Product Declarations (EPDs) available
- Eco-package for improved energy efficiency
- Reduce building energy losses

**SLIDING DOORS TYPES**

- Single sliding door
- Double sliding door
- Double sliding door (with fixed panels)
- Single telescopic door
- Prismatic sliding door
- Curved sliding door
- Double telescopic door

CHECK ALSO OUR ‘DESIGNING DOORS FOR YOUR BUILDING’ HANDBOOK
### Features
- Different profile systems – full glass, slim, standard, robust aluminum
- Different door types – single and double, telescopic, prismatic, and curved
- Number of leaves – 1-, 2-, 3-, 4- and 6-leaf doors available
- Wide variety of safety features, including manual switches, motion sensors, safety screen and access control integration

### Quality and Service
KONE door solutions are developed from quality materials based on expertise achieved during 35 years. These doors meet the latest European norms and regulations (CE marking), additionally they are TÜV approved.

KONE also offers a complete service and maintenance program for the needs of your business. In order to minimise downtime, all spare parts needed are available from our web-store and will be dispatched usually within 24 hours. The KONE Care Centre is available 24/7 to provide door maintenance and repair services.

Engineering and manufacturing units are certified according to ISO 9001:2000 quality management system and ISO 14001 environmental management system.

### Door Options
- **Fire resistant**
- **Burglar-proof**: door for environments where there is a high risk of burglary or vandalism
- **Energy saving (Eco Drive)**: reduces warm or cold air loss and temperature oscillations in the building, has automatic adjustment of the opening width based on outside temperature and people flow
- **Insulated**: thick and robust profile for excellent weather protection, can be combined with energy saving options
- **Escape route**: an intelligent fail-safe system for emergency situation and escape route doors ensures the safe and reliable opening of the door in all circumstances because of the redundant system with double motor and controllers. Door fulfills the demands for escape route doors as described in DIN18650-1 (tested for minimum 1 million cycles) with a performance level according to EN 13849-1:
  - Performance level C: Standard sliding door
  - Performance level D: Escape route and fire-resistant sliding doors

* Performance level - a measure of the reliability of a safety function, determined as an average probability of a dangerous failure per hour:
  - Performance level C: > 10^-6 to < 3.0 *10^-6
  - Performance level D: > 10^-7 to < 10^-6
**INTELLIGENT SLIDING DOOR OPERATORS**

KONE sliding doors feature a powerful, fully automatic operators, suitable for wide range of door types and options. They can be adjusted for the demands of many environments.

KONE offers two versions of door operators: the KONE UniDrive® operator and the KONE UniDrive® Compact operator for sliding doors.

**KONE UniDrive®** allows the door’s operation to be highly customised from the most basic operational settings to the most advanced. This intelligent door operators can collect and store information and its software includes self-diagnostic capabilities. The operator is for more heavy duty environments and have been tested for 1 million cycles.

The door operators are also equipped with safety features such as reverse opening, if an obstruction is in the way of the opening or closing cycle.

**The KONE UniDrive® Compact** provides slim design and space efficiency, reducing the need of headroom above the door. This enables a better aesthetic appearance, since the door operator discreetly blends in with the building décor.

<table>
<thead>
<tr>
<th></th>
<th>KONE UNIDRIVE® OPERATOR FOR SLIDING DOORS</th>
<th>KONE UNIDRIVE® COMPACT OPERATOR FOR SLIDING DOORS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application</strong></td>
<td>For single, double, telescopic (2-3-4 or 6 leaves), prismatic and curved doors</td>
<td>For single and double sliding doors</td>
</tr>
<tr>
<td><strong>Supply voltage</strong></td>
<td>230 VAC, 50/60 Hz, 2 A, 1 Phase</td>
<td>230 VAC, 50/60 Hz, 2 A, 1 Phase</td>
</tr>
<tr>
<td><strong>Nominal power consumption</strong></td>
<td>80 VA</td>
<td>80 VA</td>
</tr>
<tr>
<td><strong>Dimensions operator (height x depth)</strong></td>
<td>185 x 161 mm</td>
<td>Max. 130 x 133 mm</td>
</tr>
<tr>
<td><strong>Door weight</strong></td>
<td>Max. 1 x 180 kg, 2 x 120 kg for double door Options: 1 x 270 kg, 2 x 180 kg</td>
<td>Max. 1 x 100 kg for single door 2 x 80 kg for double door</td>
</tr>
<tr>
<td><strong>Door width</strong></td>
<td>Depends on the application and door width (max. 5000 mm)</td>
<td>Max. 2 x 1000 mm for double door and 1 x 1500 mm for single door</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Fire resistant, burglar proof, escape route options</td>
<td></td>
</tr>
</tbody>
</table>

KONE wireless push buttons can be integrated with KONE sliding door solutions.
TECHNICAL SPECIFICATION

CONSTRUCTION
Durable aluminum rail 160 mm high with a control unit, motor and carriers.

OPERATING MODES
- Manually operated activators (push buttons and switches)
- Motion detectors
- Safety sensors
- Remote control
- Entrance control system
- Electronic program switch with LED display (optional)
- Wireless program switch

PROGRAM SWITCH FUNCTIONS
- Automatic open & close
- Reduced opening width
- Sequence opening
- Reset functions
- Maintenance indicator to notify when door has reached programmed number of cycles
- Key switch with Euro cylinder to lock the program switch to prevent unauthorised use (optional)

STANDARD
Drive type
Electromechanical sliding door drive

Line power
230V, 50 Hz, 2 Amp, 1 Phase

Power consumption
80 W

Basic unit
With a DC motor in rubber buffer and adjustable tooth belt

Control unit
Computerised self monitoring unit

Programmable door speed, time & width
Available (only for KONE UniDrive)

Door weight
Single: 180 kg (max.) Double: 2 x 120 kg (max.)

Cover
Aluminum design

Suspension system
Two 3D adjustable carriers per door leaf

External connections
4 programmable inputs, 1 programmable output

Carriers
Steel carriers with synthetic rollers (smooth & noiseless running). Max. load: 60 kg/caner

Radar & sensors
1 and 2 way radar detectors, infrared motion detectors, safety sensors, photo cells (4 max.)

OPTION

- Battery pack: one 12V/0.8 Ah battery for one time opening
- Battery unit: 3 batteries of 12V/0.8Ah, all functionalities (limited time)

EXTERNAL CONNECTIONS
4 programmable inputs, 1 programmable output

CONTROL

- Additional 4 inputs and 4 outputs

LOCKING
- Electronic lock activated by the program switch. LED indication on the program switch shows locked positions (red LEDs)*
- Two types of optional battery backups can be supplied:
  - for one-time door opening in case of power cut
  - for performing of all door functionalities during 30 min.
- Mechanical lock; hook or bar lock with key use in door leaf (optional)
- Night switch for opening the door 1 time (key switch outside or push button inside) when door is electronically locked. After closing the door the electronic lock is activated again (optional)

SAFETY FEATURES
- Electronic safety reverse (highly sensitive reverse settings in both open and close directions)
- Finger trap safety (adjustable to avoid accidental finger trap)
- Photo cell safety (mounted in door opening, control unit tests during every door cycle)
- Door speed safety (automatically adjusted based on door weight and resistance)
- Power failure (all settings are stored in case of power failure)
- Mechanical safety screen (prevents people or objects from being struck by a moving door panel)

FIRE ALARM FUNCTIONS (OPTIONAL)
- Standard function is ‘Door closes’ while the photocell is switched off and the radar sensor remains active
- Door closes and manual operation
- Special programming

* Not on wireless program switch functions

KONE SLIDING DOOR ECO DRIVE (optional)

Application
- To reduce warm or cold air losses and reduce temperature oscillations in building, allowing energy savings

Model
- Single and double sliding door
- Option: sequence door/air lock

Opening width (OW)
- Automatic opening width based on outside temperature and people flow

Construction
- UniDrive control unit with ECO software module

Eco module
- Control program in connection with temperature sensor and control of the door
- Provides automatic switching to reduce opening, sequence opening, reduce open time
- Opening width of the entrance is automatically increased at times of higher people flow
- Option: Control unit extension with wind speed metre for optimum performance

Optional to connect for automatic regulation of the air flow
KONE offers various types of door profile systems to suit your building design:

- **20S** slim aluminum
- **35S** standard aluminum
- **50S** robust aluminum
- Full glass, **65S** insulated, fire

The design of the profiles provides an aesthetically pleasing view of the door and fixed panel. The 20S is a slim profile for 10 or 12 mm toughened glass. The 35S door profile can be used in many places for in- and outside doors, and the profile is suitable for various glass types with a maximum thickness of 22 mm. For external doors and areas, where thermal insulation is not a priority, the robust 50S profile provides elegance and compatibility with a wider range of dimensions than standard 35S profiles.

### PROFILE SYSTEM TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>KONE DOOR NAME</th>
<th>KONE SLIDING DOOR 30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Profile type</strong></td>
<td><strong>20S</strong></td>
</tr>
<tr>
<td>Design</td>
<td>Tight, round and slim view</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum AlMgSi 0.5 (22), DIN 1725, Dimensions DIN 1748</td>
</tr>
<tr>
<td>Application</td>
<td>Single, double and telescopic doors*</td>
</tr>
<tr>
<td>Glass</td>
<td>Toughened glass</td>
</tr>
<tr>
<td>Glass thickness (mm)</td>
<td>10 or 12</td>
</tr>
<tr>
<td>Vertical profile width (mm)</td>
<td>22</td>
</tr>
<tr>
<td>Horizontal profile width top (mm)</td>
<td>70</td>
</tr>
<tr>
<td>Horizontal profile width bottom (mm)</td>
<td>70</td>
</tr>
<tr>
<td>Profile thickness (mm)</td>
<td>24</td>
</tr>
<tr>
<td>Opening width single door (mm/max)</td>
<td>1400</td>
</tr>
<tr>
<td>Opening width double door (mm/max)</td>
<td>2200</td>
</tr>
<tr>
<td>Opening height (mm/max)</td>
<td>2300 * 10 / 2500 * 12</td>
</tr>
<tr>
<td>Midrail in panels</td>
<td>No</td>
</tr>
</tbody>
</table>

* Available with or without fixed panels  ** Depending on glass type  *** All values are in mm
Insulated 65S profile is the best for building entrances. Special profile for fire doors is also available. The full glass profile offers a solution with very thin finishing. In addition to our own profile systems, we can also supply doors with various types of aluminum profiles, glass, steel, wood and fire-resistant materials.

**TECHNICAL SPECIFICATION***

<table>
<thead>
<tr>
<th></th>
<th>KONE SLIDING DOOR 50</th>
<th>KONE SLIDING DOOR 70</th>
<th>KONE SLIDING DOOR 80</th>
<th>KONE SLIDING DOOR 100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Profile type</strong></td>
<td>65S</td>
<td>20S</td>
<td>35S</td>
<td>Fire</td>
</tr>
<tr>
<td>Insulated</td>
<td>Tight, round and slim view</td>
<td>Tight, round and slim view</td>
<td>Slim view</td>
<td>Slim view</td>
</tr>
<tr>
<td>Insulated aluminum with thermal break</td>
<td>Aluminum DIN 1725, Dimensions DIN 1748</td>
<td>Aluminum DIN 1725, Dimensions DIN 17615</td>
<td>Steel</td>
<td>Aluminum AlMgSi 0.5 (22), DIN 1725, Dimensions DIN 1748</td>
</tr>
<tr>
<td>Single and double doors*</td>
<td>Single, double doors*</td>
<td>Single, double, telescopic and prismatic doors*</td>
<td>Single and double doors</td>
<td>Single and double doors*</td>
</tr>
<tr>
<td>Double or triple layer glazing</td>
<td>Toughened glass</td>
<td>Laminated, isolated and toughened glass</td>
<td>Fire resistance glass, contraflam EI30</td>
<td>Toughened glass</td>
</tr>
<tr>
<td>Insulated double glass, 29 Insulated triple glass, 48</td>
<td>10 or 12</td>
<td>8 - 20</td>
<td>16</td>
<td>10 or 12</td>
</tr>
<tr>
<td></td>
<td>68</td>
<td>22</td>
<td>35</td>
<td>72.5</td>
</tr>
<tr>
<td></td>
<td>68</td>
<td>70</td>
<td>50</td>
<td>72.5</td>
</tr>
<tr>
<td></td>
<td>142</td>
<td>70</td>
<td>70</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>65</td>
<td>24</td>
<td>31</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>800 – 1750</td>
<td>1400</td>
<td>950 – 1250**</td>
<td>800 – 1750</td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

* Available with or without fixed panels   ** Depending on glass type   *** All values are in mm

FIND SUITABLE SLIDING DOOR SOLUTIONS FOR YOUR BUILDING USING KONE DOORS TOOLBOX
http://doorstoolbox.kone.com
KONE STANDARD SLIDING DOORS

KONE SLIDING DOOR 30

KONE Sliding Door 30 is suitable for most external and internal building spaces. Availability of different profile systems, allows diverse applications in many buildings. These sliding doors can vary on the configuration depending on the chosen profile – from single and double to curved, prismatic and telescopic types.

KEY BENEFITS OF STANDARD SLIDING DOORS

- Comply with standards regarding safety, durability and flexibility
- Suitable for many different types of buildings
- Equipped with an intelligent control system that is easily adjusted for many different environments
- Space-efficient
- Smooth installation
- Several features to guarantee the safety of users
- Produced from durable materials, ensuring reliable operation even in demanding environment
- Reduce building energy losses
- Flexible design with wide range of visual options
- Customisable for each individual building

Check Environmental Product Declaration for KONE Sliding Door 30 on http://ibu-epd.com/en/epd-program/published-epds/

KONE Sliding Door 30, telescopic, single
ADDITIONAL INFORMATION ON KONE SLIDING DOOR 30 WITH 35S PROFILE

<table>
<thead>
<tr>
<th>GLASS TYPE</th>
<th>GLASS THICKNESS (MM)</th>
<th>SINGLE DOOR (MM)</th>
<th>DOUBLE DOOR (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laminated glass 4.4.2</td>
<td>8</td>
<td>950 x 2200</td>
<td>1800 x 2200</td>
</tr>
<tr>
<td>Laminated glass 5.5.2</td>
<td>10</td>
<td>950 x 2200</td>
<td>1800 x 2200</td>
</tr>
<tr>
<td>Laminated glass 5.5.2 + double vertical profile*</td>
<td>10</td>
<td>1000 x 2200</td>
<td>2000 x 2200</td>
</tr>
<tr>
<td>Laminated isolated glass 3.3.1 - 7 - 3.3.1</td>
<td>20</td>
<td>2200 x 2200/1900 x 2500</td>
<td>1100 x 2200/950 x 2500</td>
</tr>
<tr>
<td>Toughened glass 10 mm</td>
<td>10</td>
<td>1000 x 2300</td>
<td>2000 x 2300</td>
</tr>
<tr>
<td>Toughened glass 12 mm</td>
<td>12</td>
<td>1250 x 2500</td>
<td>2500 x 2500</td>
</tr>
</tbody>
</table>

* With extra vertical profile (profile on behalf of pin head lock) on both sides of the door leaf
For all glass types; safety glass with beveled edges.

An additional bottom support profile is necessary when:
- Opening width of a single door is > 1000 mm
- Opening width of a double door is > 2000 mm
- Opening width of other glazing is > 900 mm (single door) or > 1800 mm (double door)
## ADDITIONAL INFORMATION ON KONE SLIDING DOOR 70

KONE Sliding Door 70 features small size compact operator.

An additional bottom support profile is necessary when:
- Opening width of a single door is > 1000 mm
- Opening width of a double door is > 2000 mm
- Opening width of other glazing is > 900 mm (single door) or > 1800 mm (double door)

<table>
<thead>
<tr>
<th>GLASS TYPE</th>
<th>GLASS THICKNESS (MM)</th>
<th>MAXIMUM OPENING WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAXIMUM WIDTH x HEIGHT</td>
<td>SINGLE DOOR (MM)</td>
</tr>
<tr>
<td>Laminated glass 4.4.2</td>
<td>8</td>
<td>950 x 2200</td>
</tr>
<tr>
<td>Laminated glass 5.5.2</td>
<td>10</td>
<td>950 x 2200</td>
</tr>
<tr>
<td>Laminated glass 5.5.2 + double vertical profile*</td>
<td>10</td>
<td>1000 x 2200</td>
</tr>
<tr>
<td>Laminated isolated glass 3.3.1 - 7 - 3.3.1</td>
<td>20</td>
<td>1100 x 2200/950 x 2300</td>
</tr>
<tr>
<td>Toughened glass 10 mm</td>
<td>10</td>
<td>1000 x 2300</td>
</tr>
<tr>
<td>Toughened glass 12 mm</td>
<td>12</td>
<td>1250 x 2300</td>
</tr>
</tbody>
</table>

* With extra vertical profile (profile on behalf of pin head lock) on both sides of the door leaf
For all glass types; safety glass with beveled edges.

---

* The table above shows the maximum opening width for different glass types and configurations.

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KONE Sliding Door 70
KONE SLIDING DOOR 100, GLASS

KONE Sliding Door 100 (full glass) is a door with very thin profile, suitable for applications, which demand maximum transparency.

<table>
<thead>
<tr>
<th>OPERATOR TYPE</th>
<th>KONE UNIDRIVE® COMPACT</th>
<th>KONE UNIDRIVE®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation dimensions (mm)</td>
<td>133 x 133</td>
<td>185 x 161</td>
</tr>
<tr>
<td>Maximum clear opening height (mm)</td>
<td>2200 (10 mm glass thickness) 2300 (12 mm glass thickness)</td>
<td>2200 (10 mm glass thickness) 2400 (12 mm glass thickness)</td>
</tr>
<tr>
<td>Maximum clear opening width (mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single door</td>
<td>1400</td>
<td>1400</td>
</tr>
<tr>
<td>Double door</td>
<td>2000</td>
<td>2000</td>
</tr>
</tbody>
</table>
INSULATED SLIDING DOOR
KONE SLIDING DOOR 50

KONE Sliding Door 50 is an insulated automatic sliding door designed for building entrances with medium to high traffic level. It is ideal for ensuring smooth people flow in busy environments, such as retail centres, hotel lobbies, office buildings, and medical facilities. The extremely hardwearing profile provides excellent protection against weather, thermal losses, and external noise disturbance, while the modern design will enhance the appeal of any building entrance.

ROBUST AND SECURE
The thick, robust profiles provides excellent weather protection and ensure smooth, reliable long-term operation – even under the most demanding usage conditions. The durable aluminum construction and high thermal insulation shields the building interior from freezing temperatures and harsh weather conditions.

MAXIMUM COMFORT AND EFFICIENCY
A properly insulated, eco-efficient entrance door improves building energy efficiency by minimising heating and cooling losses and increases comfort in the lobby by minimising disturbance from external noise.

THE KONE INSULATED SLIDING DOOR FEATURES:
1. Thick, robust profiles with multi-layered glass with argon filling
2. Thermal break to minimise thermal flow through door profiles
3. Seamless closing with rubber/gaskets at the closing edge and brushes around the door to protect against draft
4. Optional eco package for improved energy efficiency

Thanks to its highly effective insulation, the KONE insulated sliding door can achieve a U-value* as low as 1.1 W/m2K.

* U-value is a measurement of heat transfer through a building material. The lower the value, the more energy efficient the building component is.

Check Environmental Product Declaration for KONE Sliding Door 50 on http://ibu-epd.com/en/epd-program/published-epds/

<table>
<thead>
<tr>
<th>U VALUE FACADE [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>3700 x 2300</td>
</tr>
<tr>
<td>Double glass (U value 1.1)</td>
</tr>
<tr>
<td>Triple glass (U value 0.6)</td>
</tr>
</tbody>
</table>
SAFE ACCESS AND MAXIMUM SECURITY

KONE Sliding Door 50 is delivered with the latest sensors technology that provides the highest safety for all users. Sensors ensure that the door opens smoothly and in good time as people approach, and remains open whenever a person or object is detected in the surrounding area. For enhanced security, the door can be equipped with additional manual hook locks.

- Fully compliant with EN 16005 regulations on safety in use of power operated pedestrian doors
- Sensors detect both movement and presence, ensuring safe operation
- Can be integrated with KONE Access building access solution
- Locks can be integrated to the profile system to secure the RC2 burglar resistance requirements

A DESIGN FOR LIFE

It is easy to specify a door that blends seamlessly with the rest of your building. We offer a wide range of finishes, including stylish anodised silver and durable milled steel powder-coated to the full range of RAL colours.

SLIDING DOOR FOR ALL SEASONS

Suitable for all public and commercial buildings where stability (heavy use), security, convenience, energy investment, and image are very important.

The door is tested and certified by SKG Notify Body in Netherlands according to European standards*.

- Low air permeability > Class PPD0 (< 150 Pa)
- High watertightness > Class 3A (100 Pa)
- High wind resistance > PDD 500 (500 Pa)
- Optional burglar resistance > Class RC2

* Air permeability : EN 12207, EN 16361
Watertightness : EN 12208, EN 16361
Resistance to wind: EN 12210, EN 16361
Burglary resistance: EN 1627

PRODUCT FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Building entrance</td>
</tr>
<tr>
<td>Usage level</td>
<td>High</td>
</tr>
<tr>
<td>Motor/Operator</td>
<td>KONE UniDrive®</td>
</tr>
<tr>
<td>Door type</td>
<td>1 or 2-leaf</td>
</tr>
</tbody>
</table>
| Dimensions, maximum width and height | Double door, clear opening:  
- Maximum width 2950 mm  
- Maximum height 2600 mm  
- Optional with fixed panels:  
  width 1600 mm, height max. 2600 mm.  
Single door, clear opening:  
- Maximum width 1950 mm,  
- Maximum height 2600 mm  
- Optional with fixed panels:  
  width 2100 mm, height max. 2600 mm. |
| Profile | Insulated aluminum with thermal break, frame depth 65 mm. |
| Glazing | Double or triple layer, various glazing types available |
| U-value (W/m²K) | 1.1 achievable, depending on building façade |
| Emergency operation | Battery back-up operation or exit via adjacent emergency exit door |
| Lock | Mechanical hook lock solutions |
| Facility management integration | Can be integrated with KONE Access and other building automation systems, and fire detection and alarm systems |
| Safety | The door set fulfills the EN 16005 requirements and uses EN-12578 compliant sensors. Security/Burglary Resistance:  
  - Fulfill RC2 requirement of EN 1627 standard.  
  - Safety screen is available to comply with EN16005 standard as an alternative to sensors. |
| Optional enhancements | KONE eco package |

High quality door profiles include a thermal break which minimises thermal flow.
ESCAPE ROUTE SLIDING DOOR
KONE SLIDING DOOR 65

For emergency situation and escape route doors, KONE has developed an intelligent fail-safe system for sliding doors. This special feature ensures the safe and reliable opening of the door in all circumstances because of the redundant system with double motor and controllers. Installing the KONE fail-safe system upgrades the building’s safety and security. This special door system fulfills the demands for escape route doors as described in DIN18650-1.

**KEY FEATURES**

- Single or double leaf with or without fixed panels
- Available with programmable opening and closing speed, open time, opening width, several timing functions and obstacle safety reverse

**DOOR OPTIONS**

- Electrical lock
- Manual emergency release – releases a locked electrical lock manually during a power failure
- Night switch – for opening door one time when the door is electrically locked
- Connection to fire alarm

**TECHNICAL SPECIFICATION**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening width</td>
<td>Depends on door leaf size and weight</td>
</tr>
</tbody>
</table>
| Door weight              | Single leaf: Maximum 180 kg  
Double leaf: Maximum 2 x 120 kg |
| Aluminium rail           | 160 mm length, supplied with an integrated running rail, and basic unit with a control unit, motor and carriers |
| Photocell safety         | Consists of a transmitter and receiver, installed in the door opening. The control unit tests the function of the photocells prior to every door closing cycle. |
| Electronic safety reverse| Highly sensitive reverse settings pre-programmed in the control unit.       |
| Finger trap safety       | Adjustable to avoid fingers getting stuck                                     |
| Door speed               | Automatically adjusted to a safe level based on the door weight and resistance of the door in accordance with the standards for doors in escape routes. |
| Battery unit             | Integrated print with 3 batteries of 12 V / 0.8 Ah to sign a failure and to open the door in a failure or during power cut |
| Failure                  | The door opens (when not locked) and the failure will be reported on the program switch. |
| Power failure            | The door opens (when not locked) and the power failure will be reported on the program switch. All settings will remain stored in the control unit. |
Automatic single and double fire-rated sliding doors provide the maximum possible doorway width, making them ideal for buildings with high traffic flows that require compliance with European fire regulations. Single sliding doors can be installed in areas where space is limited, in locations where swing doors are typically used. Typical applications for the KONE Sliding Door 80 include medical and retail facilities, schools, and office buildings.

STANDARDS COMPLIANCE
- Fully compliant with EN 1634-1 fire-resistance and smoke control standards, and EN 12600 and EN 14449 glass application and safety standards
- Meets requirements of EN 16005 standard for power-operated pedestrian door equipment
- EI30 fire resistance classification

AUTOMATION
- Entrance-control system
- Remote control
- Wired or wireless program switch

PROGRAM SWITCH FUNCTIONS
- Automatic opening and closing
- Opening width adjustment
- Sequential opening

OPERATION DURING FIRE ALARMS
- Door closes while presence safety sensors are switched off and the radar remains active (standard function)
- Door closes and can be operated manually
- Sequence door settings (for 2 or more door sets) can be cancelled

SAFETY FEATURES
- Automatic adjustment of door speed based on door weight and resistance
- Door settings automatically stored in case of power failure

LOCKING
- Electronic lock activated via program switch
- Automatic locking in the event of power failure
- Night-switch function allows one-time unlocking via key switch outside or push button inside when door is electronically locked

KEY BENEFITS
- Ideal for any indoor application requiring an automated fire-proof door solution
- Complete sealing for fire protection
- Durable construction and reliable operation
- Enables safe, smooth people flow and excellent visibility
- Fully adjustable operation, including opening speed and width
- In areas where space is limited, a single sliding door provides maximum opening width and convenience while also saving floor space

Check Environmental Product Declaration for KONE Sliding Door 80 on http://ibu-epd.com/en/epd-program/published-epds/
KONE provides innovative and energy efficient solutions for elevators, escalators, automatic building doors and the systems that integrate them with today’s intelligent buildings. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernisation.

KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings. Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life cycle of the building. We challenge the conventional wisdom of the industry.

We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace® and KONE UltraRope®.

KONE employs close to 50,000 dedicated experts to serve you globally and locally. We have a team of over 1500 staff around Australia and New Zealand.