



*open  
for life*

## **METAL KD AUTOMATIC SLIDING DOOR**



**2018**

[www.vrata-derzic.si](http://www.vrata-derzic.si)







***Our door - your pleasure - our pride.  
For 20 years ...***



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## METAL KD AUTOMATIC SLIDING DOOR

Metal automatic sliding doors are a high-quality product. We manufacture them in accordance with the highest quality standards. The doors are characterised by their easy installation and safety of use. The shapes and lines allow for adaptability and enhance every room using a combination of colours. We manufacture many types of doors, which are characterised by their intended use.

KD automatic sliding doors can be:

- single-leaf or double-leaf,
- ordinary, airtight, or fire doors (EI<sub>1</sub>30 or EI<sub>2</sub>60),
- solid or glass.

KD automatic sliding doors are suitable for installation in buildings that are the result of rapid construction, modern construction techniques, and special requirements. They are installed in apartments, hospitals, schools, nursery schools, shopping centres, industrial and business premises, tourist facilities etc.

We can manufacture all types of KD automatic sliding doors according to your chosen dimensions. All door models are carefully designed in the Autodesk Inventor 3D program.

For the manufacture of KD automatic sliding doors, we use cold rolled electrogalvanised sheet metal with EN 10152 quality and the designation DC01 EZ25/25 A-PC.

The surface of metal KD automatic sliding doors is protected by a layer of powder coating in accordance with DIN 55633 and EN ISO 12944. A standard application of the coating achieves C2 category protection. The basic colours of the coating are selected from the RAL colour chart, but in the case of larger orders it is possible to arrange for special colours according to your wishes.



Metal KD automatic sliding doors can also be manufactured from stainless sheet metal. They are particularly suitable for rooms where various chemicals are used for cleaning, or rooms with high humidity.

All KD automatic sliding doors are controlled by a Besam automatic mechanism by Assa Abloy Group.



KD automatic sliding doors advantages:

- quality and precise manufacturing with superior hardware (CNC),
- humidity resistance,
- high corrosion protection, higher resistance to damage,
- simple and quick installation,
- smooth closing and perfect fit of leaf to seal,
- smooth and elegant lines that suit every room.



We manufacture the following metal KD automatic sliding door models:

DOOR MODELS:	DESCRIPTION:
<b>KD SD</b>	Metal solid automatic sliding fire door.
<b>KD SGD</b>	Metal automatic sliding fire door with glass.
<b>KD SHD</b>	Metal smoke control and airtight solid automatic sliding door.

KD automatic sliding door are not self-supporting elements, so they are installed in:

- supporting masonry walls,
- concrete walls,
- prefabricated walls, in which case, depending on the size and weight of the door, the substructure must be adequately reinforced.

#### SLOVENIAN TECHNICAL APPROVALS AND CERTIFICATES

	DESCRIPTION	FIRE RESISTANCE	SLOVENIAN TECHNICAL APPROVALS	CERTIFICATES
KD SD30-DV KD SGD30-DV KD SGD30-EV KD SD30-EV	metal sliding door	E <sub>I</sub> 30	STS-15/0012	CERTIFICATES OF CONSTANCY OF PERFORMANCE REG2-0004-03-ZGPro1-2528
KD SD60-DV KD SGD60-DV KD SD60-EV KD SGD60-EV	metal sliding door	E <sub>I</sub> 60	STS-15/0012	CERTIFICATES OF CONSTANCY OF PERFORMANCE REG2-0004-03-ZGPro1-2529

#### DECLARED PROPERTIES OF OUR PRODUCTS

	REPORT NO:	STANDARD:	RESULT:
AIR PERMEABILITY ON CONTACT SURFACES	P 0329/15-520-2	SIST EN 12207:2000 SIST EN 16361:2013	Clas 3

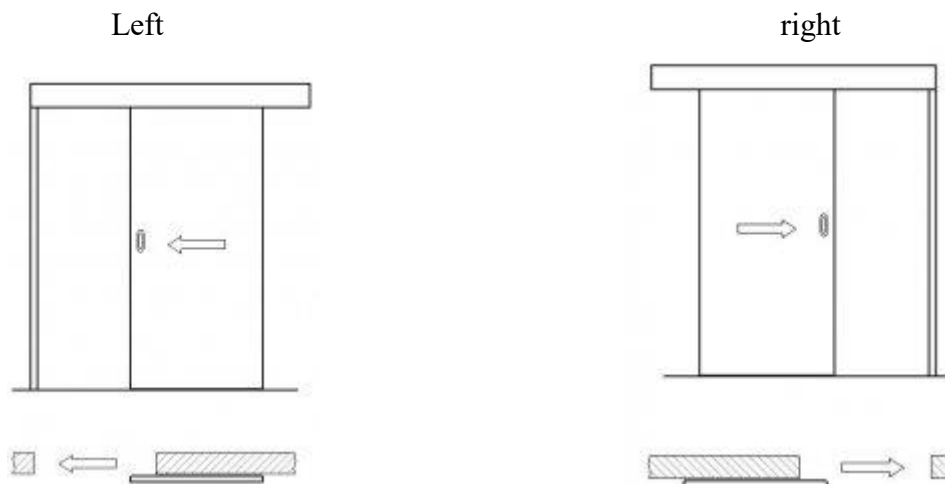
#### KD AUTOMATIC SLIDING DOOR CAN BE INSTALLED IN A VARIETY OF WALLS

	CONCRETE WALL		GYPSUM BOARD WALL
	MASONRY WALL		AERATED CONCRETE

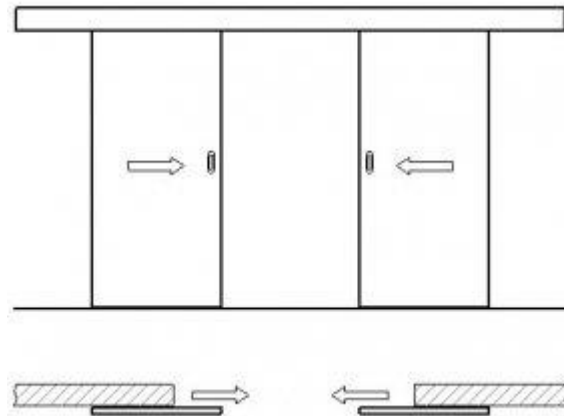
## DETERMINING THE OPENING DIRECTION

The opening direction is determined by the space where the automatic sliding doors will be installed. It is important that there is enough room for the door in the opening direction.

For KD sliding doors – EV:



For KD sliding doors – DV:



Double-leaf KD automatic sliding doors open and close symmetrically.

**CHARACTERISTICS OF THE DOOR**

FIRE RESISTANCE EI30



FIRE RESISTANCE EI60



PROTECTION AGAINST RADIATION



RESISTANCE TO SMOKE LEAKAGE



BASIC GLASS



FIRE RESISTANCE GLASS EI30



FIRE RESISTANCE GLASS EI60



VENTILATION GRID



## METAL KD SD SOLID AUTOMATIC SLIDING FIRE DOOR

Metal KD sliding fire doors are a high-quality product that is manufactured in accordance with the highest quality standards. The doors are easy to install and safe to use. They are characterised by elegant smooth lines.

The surface of KD sliding fire doors is protected by a layer of powder coating selected according to the customer's wishes. The basic selection of coating colours is based on the RAL colour chart.



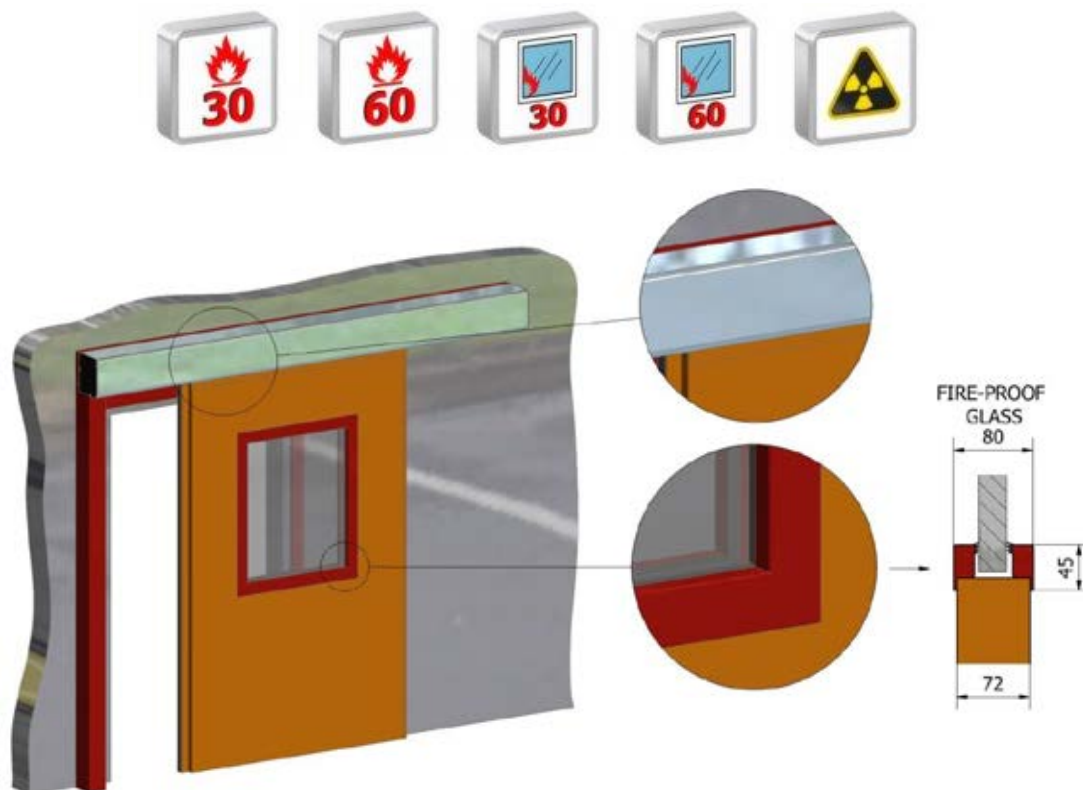
We manufacture doors to order, so they can be adapted to your openings and requirements.



*Celje Emergency Centre*

Possible features of KD sliding fire doors based on their intended use:

- fire resistance (EI<sub>1</sub>30, EI<sub>2</sub>60),
- fire glazing in leaf (EI<sub>1</sub>30, EI<sub>2</sub>60),
- protection against radiation (X-ray).



KD automatic sliding fire doors are intended for installation at the boundaries of fire sections, as well as for installation on escape routes.

They are suitable for:

- residential areas and homes for the elderly,
- schools and nursery schools,
- industrial or business premises,
- shopping centres,
- facilities with special requirements (hospitals, emergency centres ...).

The following models are distinguished:

DOOR MODELS:	DESCRIPTION:
<b>KD SD00</b>	Metal solid automatic sliding door with a thickness of 52 mm.
<b>KD SD30</b>	EI <sub>1</sub> 30 metal solid automatic sliding fire door with a thickness of 72 mm.
<b>KD SD60</b>	EI <sub>2</sub> 60 metal solid automatic sliding fire door with a thickness of 72 mm.

The purpose of a fire door is to prevent a fire spreading from one section to another, and to enable the safe evacuation of people from the building.

Determining the classification of fire doors:

- Integrity (**E**): the ability of an element to prevent the passage of flames or hot gasses. When the element is exposed to fire, cracks or openings should not appear.
- Insulation (**I**): the ability of an element to prevent the excessive transmittance of heat by conduction. Elements must be manufactured from materials that are thermal insulators.

Insulation (**I<sub>2</sub>**): average increase in temperature is 140 °C or less;

maximum increase in temperature on leaf is 180 °C or less;

maximum increase in temperature on frame is 360 °C or less.

- Time in minutes (**30, 60**), representing the time the criteria are fulfilled during the fire resistance test in accordance with the curve of a standard fire.



RADIATION PROTECTION:

All KD SD door models can be upgraded with radiation protection. All KD SD door models can be fitted with a lead coating of an appropriate thickness, depending on the required radiation protection. KD SD00 doors can also be fitted with glass of an equivalent radiation protection. Automatic sliding fire doors in which EI<sub>1</sub>30 and EI<sub>2</sub>60 fire glass has been fitted cannot be fitted with radiation protection.



#### UPGRADING DOORS IN ACCORDANCE WITH THEIR INTENDED USE

**KD SD00** – Metal solid automatic sliding door



**KD SD30** – EI<sub>1</sub>30 metal solid automatic sliding fire



or

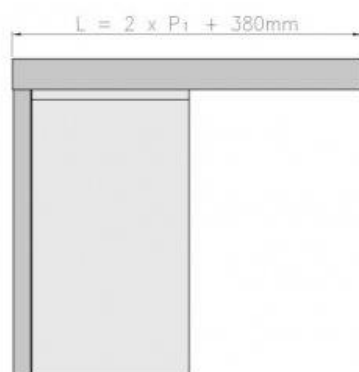
**KD SD60** – EI<sub>2</sub>60 metal solid automatic sliding fire door



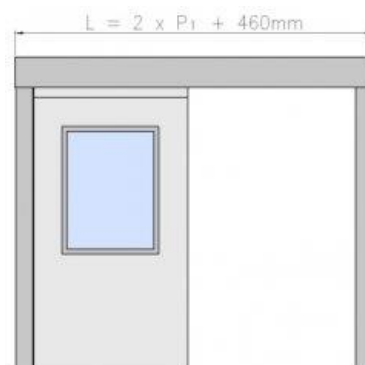
or

## KD SD AUTOMATIC SLIDING DOOR VERSIONS

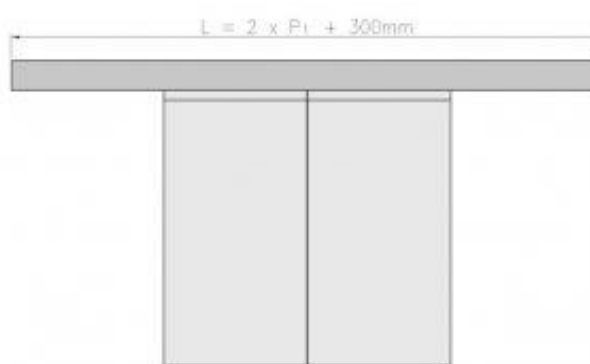
### KD SD EV



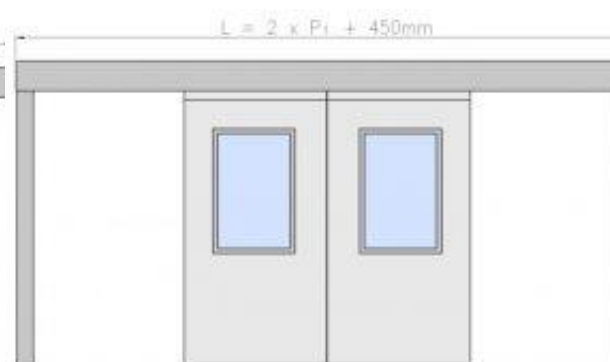
### KD SD EVs



### KD SD DV



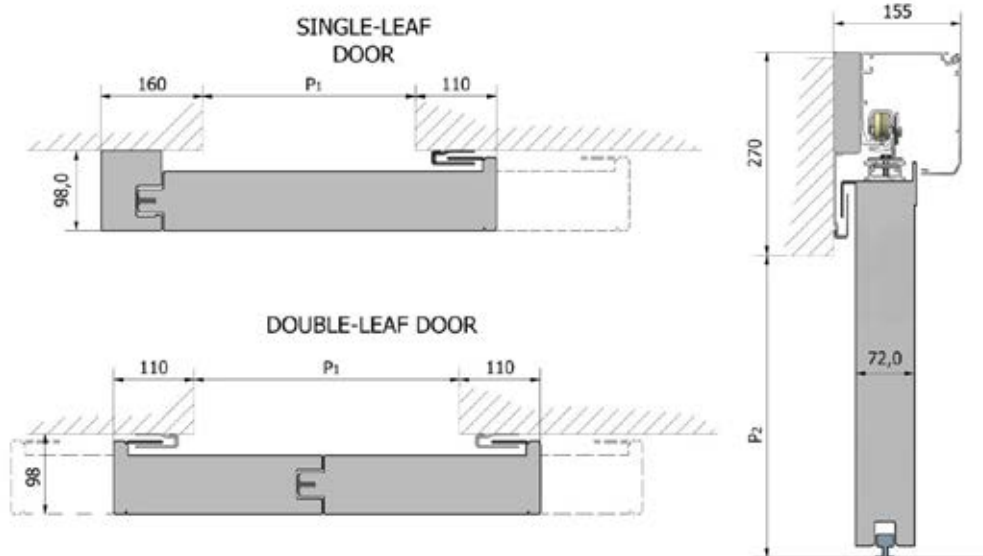
### KD SD DVs



All KD automatic sliding doors are controlled by a Besam automatic mechanism by Assa Abloy Group.



### KD SD DOOR SECTION



## DIMENSIONS

### AUTOMATIC SLIDING DOOR MAXIMUM DIMENSIONS

#### MODEL: KD SD-EV

		clear width P <sub>1</sub>																		
(mm)		1150	1175	1200	1225	1250	1275	1300	1325	1350	1375	1400	1425	1450	1475	1500	1525	1550	1575	1600
clear height P <sub>2</sub>	2250																			
	2275																			
	2325																			
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	2400																			
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	2925																			
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	3000																			

### AUTOMATIC SLIDING DOOR MAXIMUM DIMENSIONS

#### MODEL: KD SD-DV

		clear width P <sub>1</sub>															
(mm)		2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200
clear height P <sub>2</sub>	2200																
	2225																
	2250																
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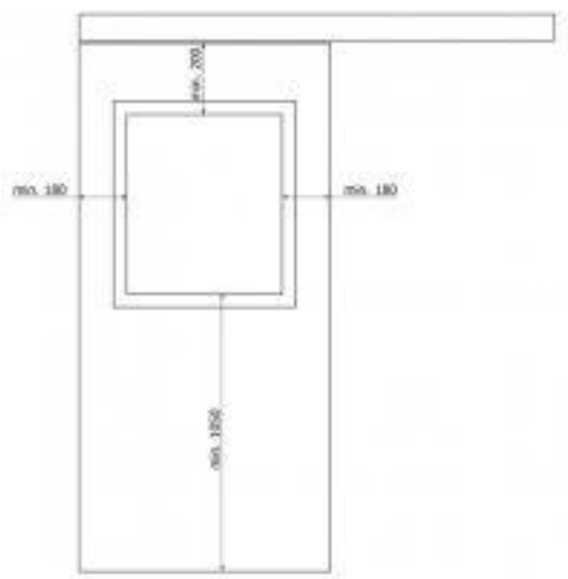
#### KEY:

	Doors in these dimensions are possible.
	Doors in these dimensions are not possible.

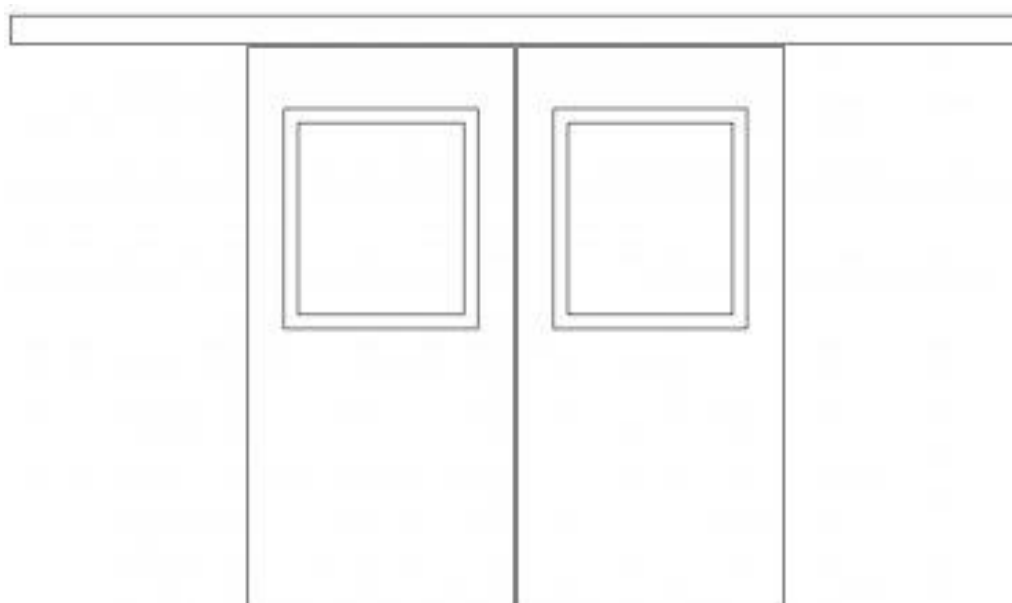


## POSSIBLE GLAZINGS

### KD SD – EV



### KD SD - DV



## METAL KD SGD AUTOMATIC SLIDING FIRE DOORS WITH GLASS

Metal KD sliding fire doors are a high-quality product that is manufactured in accordance with the highest quality standards. The doors are easy to install and safe to use. They are characterised by elegant smooth lines.

The surface of KD sliding fire doors is protected by a layer of powder coating selected according to the customer's wishes. The basic selection of coating colours is based on the RAL colour chart.



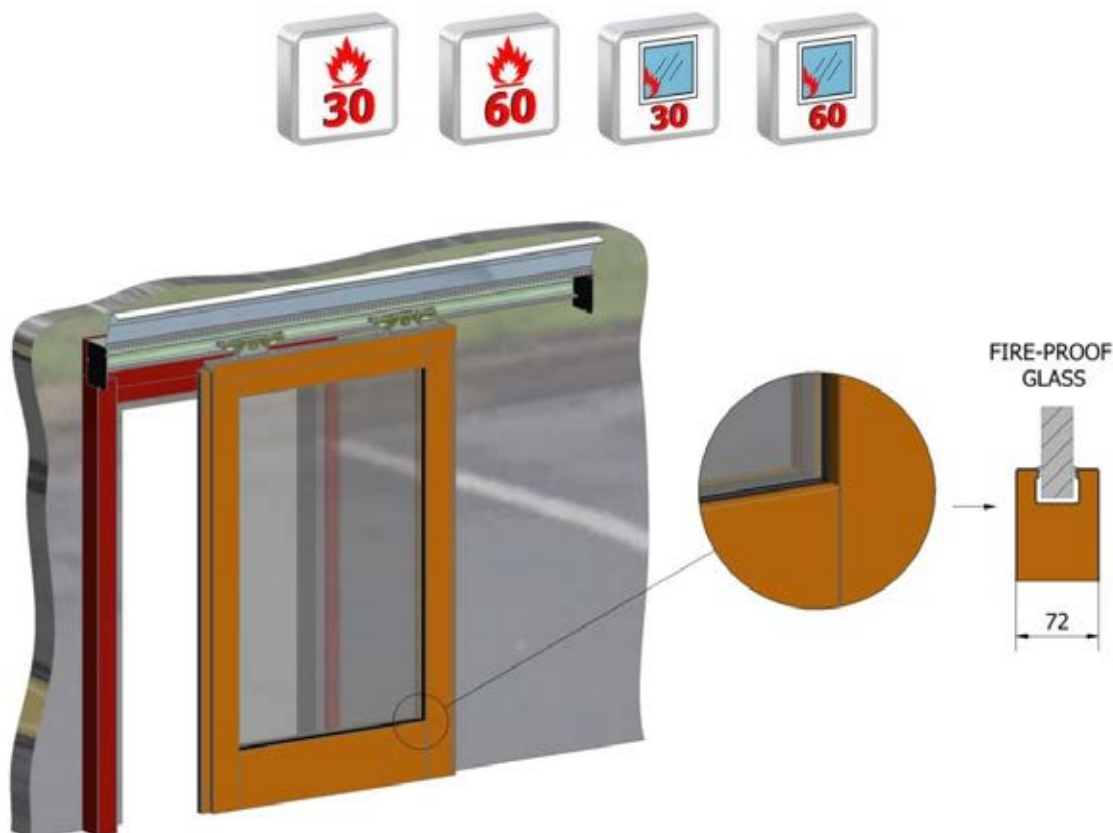
We manufacture doors to order, so they can be adapted to your openings and requirements.



*Door testing*

Possible features of KD sliding fire doors based on their intended use:

- fire resistance (EI<sub>1</sub>30, EI<sub>2</sub>60),
- fire glazing in leaf (EI<sub>1</sub>30, EI<sub>2</sub>60).



KD automatic sliding fire doors are intended for installation at the boundaries of fire sections, as well as for installation on escape routes. They are suitable for:

- residential areas and homes for the elderly,
- schools and nursery schools,
- industrial or business premises,
- shopping centres,
- facilities with special requirements (hospitals, emergency centres ...).

The following models are distinguished:

DOOR MODELS:	DESCRIPTION:
<b>KD SGD30</b>	EI <sub>1</sub> 30 metal automatic sliding fire doors with glass and a thickness of 72 mm.
<b>KD SGD60</b>	EI <sub>2</sub> 60 metal automatic sliding fire doors with glass and a thickness of 72 mm.

The purpose of a fire door is to prevent a fire spreading from one section to another, and to enable the safe evacuation of people from the building.

Determining the classification of fire doors:

- Integrity (**E**): the ability of an element to prevent the passage of flames or hot gasses. When the element is exposed to fire, cracks or openings should not appear.
- Insulation (**I**): the ability of an element to prevent the excessive transmittance of heat by conduction. Elements must be manufactured from materials that are thermal insulators.  
Insulation (**I<sub>2</sub>**): average increase in temperature is 140 °C or less;  
maximum increase in temperature on leaf is 180 °C or less;  
maximum increase in temperature on frame is 360 °C or less.
- Time in minutes (**30, 60**), representing the time the criteria are fulfilled during the fire resistance test in accordance with the curve of a standard fire.



#### UPGRADING DOORS IN ACCORDANCE WITH THEIR INTENDED USE

**KD SGD30** – EI<sub>1</sub>30 metal automatic sliding fire doors

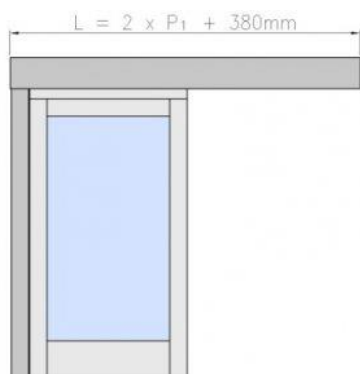


**KD SGD60** – EI<sub>2</sub>60 metal automatic sliding fire doors

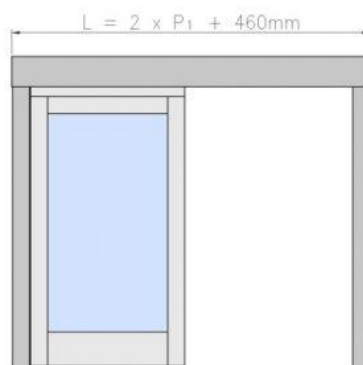


## KD SGD AUTOMATIC SLIDING DOOR VERSIONS

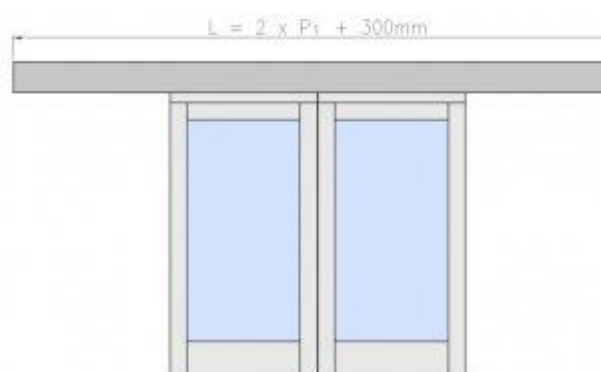
### KD SGD EV



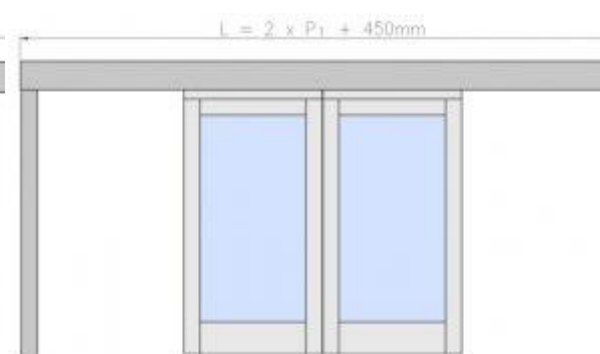
### KD SGD EVs



### KD SGD DV



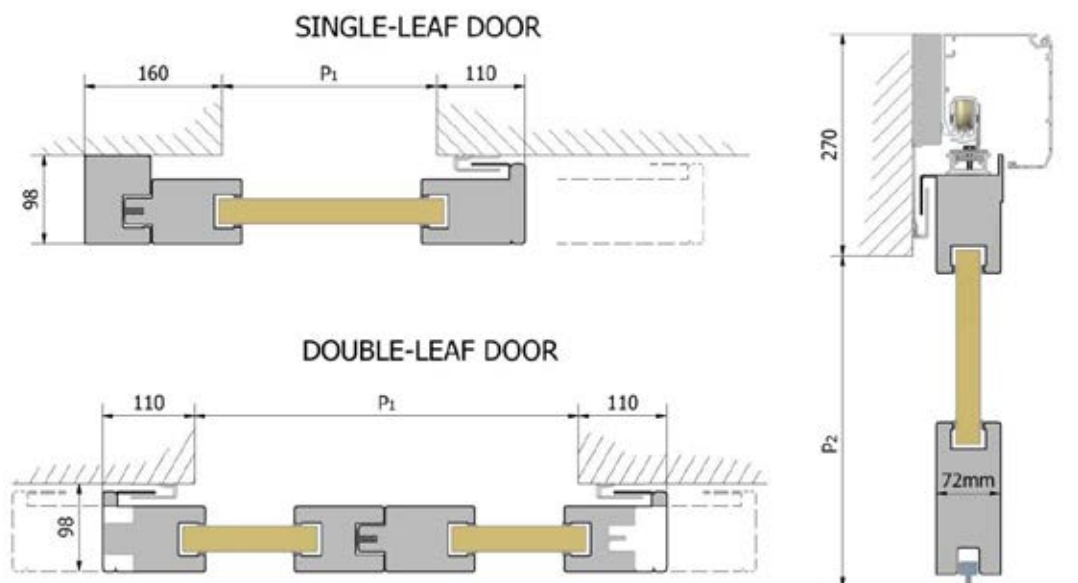
### KD SGD DVs



All KD automatic sliding doors are controlled by a Besam automatic mechanism by Assa Abloy Group.



### KD SGD DOOR SECTION





## DIMENSIONS

### AUTOMATIC SLIDING DOOR MAXIMUM DIMENSIONS

#### MODEL: KD SGD – EV

		clear width $P_1$																
(mm)		1150	1175	1200	1225	1250	1275	1300	1325	1350	1375	1400	1425	1450	1475	1500	1525	1550
clear height $P_2$	2250																	
	2275																	
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	2975																	
	3000																	

### AUTOMATIC SLIDING DOOR MAXIMUM DIMENSIONS

#### MODEL: KD SGD-DV

		clear width $P_1$																
(mm)		2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250
clear height $P_2$	2200																	
	2225																	
	2250																	
	2275																	
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	2750																	
	2800																	
	2850																	
	2900																	
	2950																	
	3000																	

#### KEY:

	Doors in these dimensions are possible.
	Doors in these dimensions are not possible.

## METAL KD SHD SMOKE CONTROL AND AIRTIGHT SOLID AUTOMATIC SLIDING DOOR

Metal KD sliding fire doors are a high-quality product that is manufactured in accordance with the highest quality standards. The doors are easy to install and safe to use. They are characterised by elegant smooth lines.

The surface of KD sliding fire doors is protected by a layer of powder coating selected according to the customer's wishes. The basic selection of coating colours is based on the RAL colour chart.



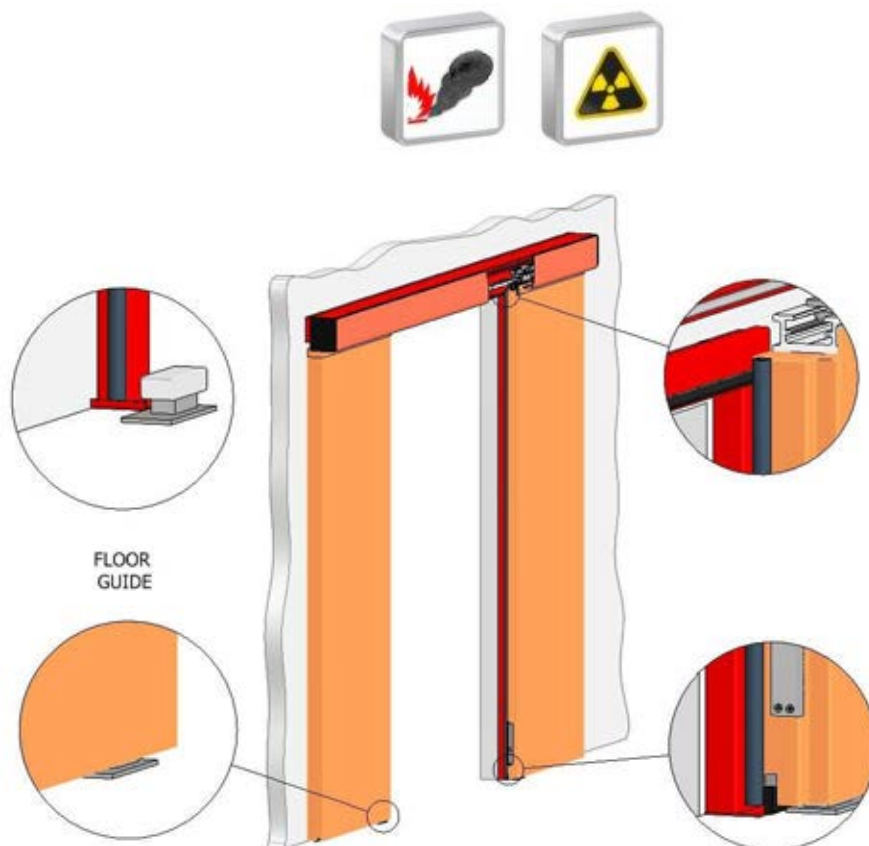
We manufacture doors to order, so they can be adapted to your openings and requirements.



*Door testing*

Possible features of KD SHD sliding doors based on their intended use:

- resistance to smoke leakage (Sa),
- airtightness (Class 3),
- protection against radiation (X-ray).



KD SHD automatic sliding doors are suitable for:

- industrial or business premises,
- shopping centres,
- facilities with special requirements (hospitals, emergency centres ...).

## UPGRADING DOORS IN ACCORDANCE WITH THEIR INTENDED USE

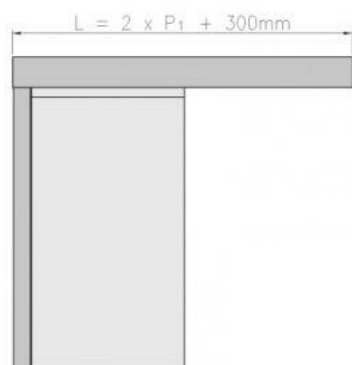
**KD SHD** – metal KD SHD smoke control and airtight solid automatic sliding door



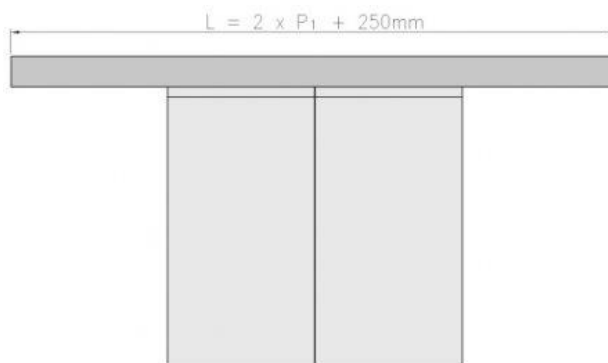
KD SHD doors can be fitted with a lead coating of an appropriate thickness, depending on the required radiation protection.

## KD SHD AUTOMATIC DOOR VERSIONS:

### KD SHD EV



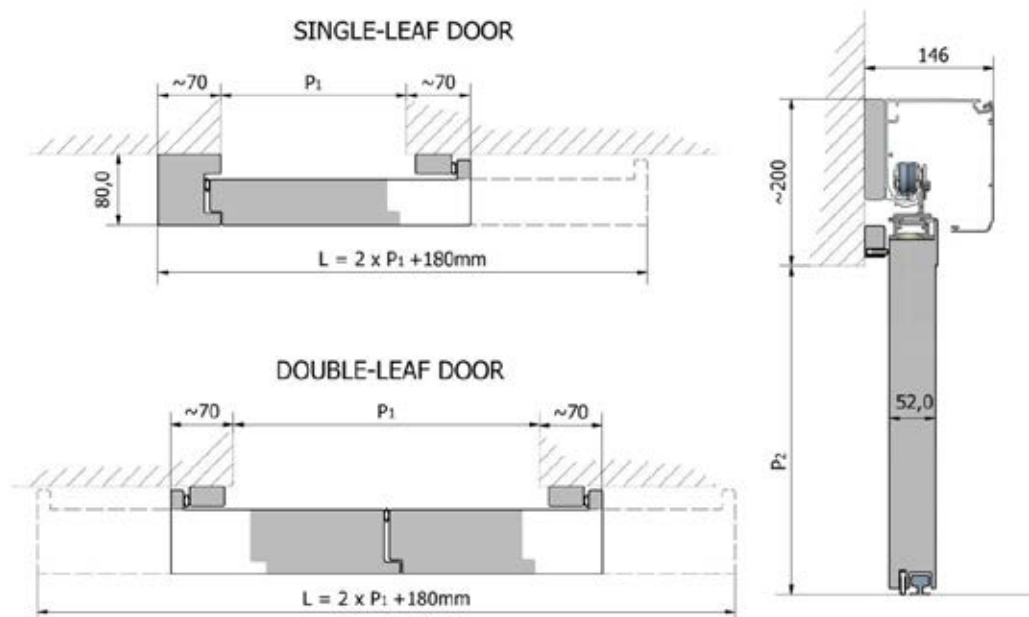
### KD SHD DV



KD SHD automatic sliding doors are controlled by a Besam automatic mechanism by Assa Abloy Group.



## KD SHD DOOR SECTION



## DIMENSIONS

### Class 3 AIRTIGHTNESS DOOR MAXIMUM DIMENSIONS

Single-leaf door	1250 x 3000 mm
Double-leaf door	2500 x 3000 mm

### Class 2 AIRTIGHTNESS DOOR MAXIMUM DIMENSIONS

Single-leaf door	1700 x 3000 mm
Double-leaf door	3500 x 3000 mm

## BESAM SL500 AUTOMATIC MECHANISM FOR SLIDING DOORS

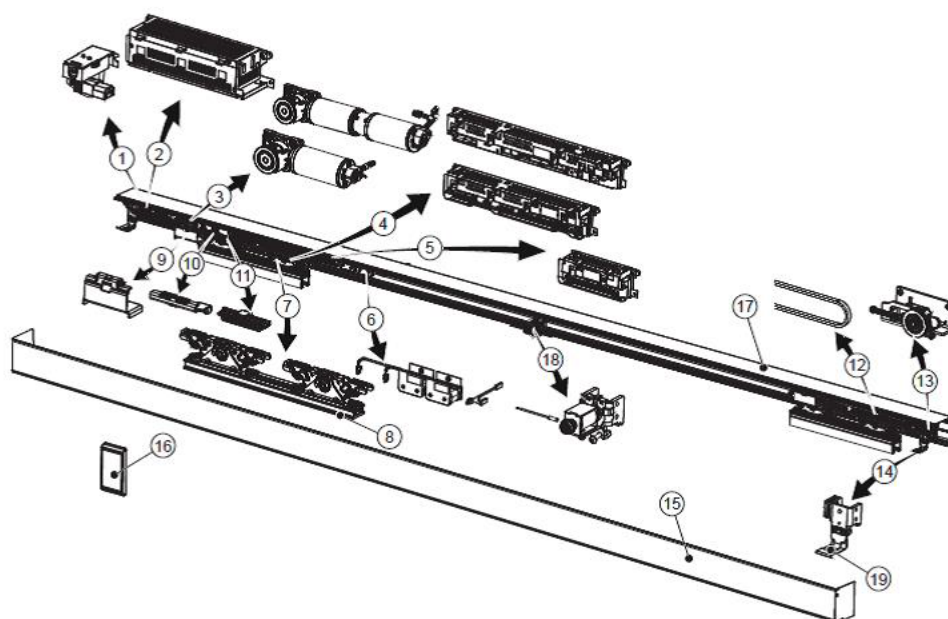


BESAM SL500 is an automatic door opener for sliding doors. It has been developed to facilitate entering a building or passing between rooms. It can be combined with a variety of security devices such as motion sensors, etc. These enable constant use, a high level of security, and a long service life.

### FUNCTIONS:

- Fire doors with the BESAM SL500 automatic mechanism automatically close in the event of a fire and remain closed. Even in the event of a power failure the operation is not impeded, due to a fitted battery that enables faultless operation.
- The doors on an escape route open and remain open in the case of danger, enabling safe evacuation of the building.

### COMPONENTS



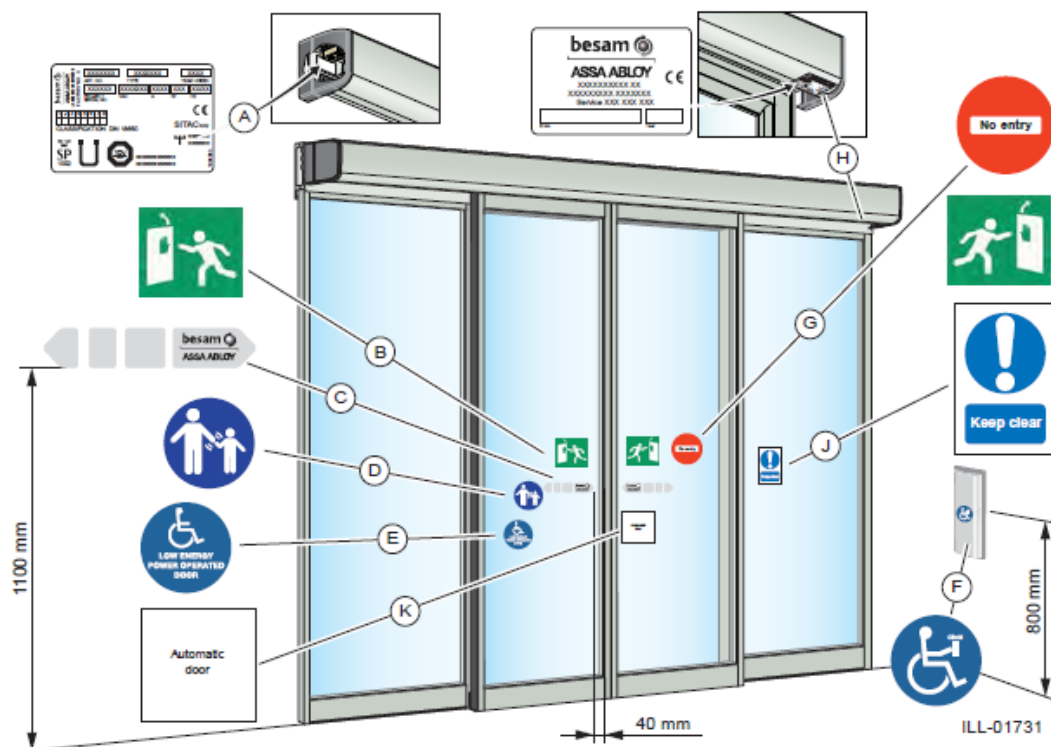
No.	Description	No.	Description
1	Mains connection	12	Tooth belt
2	Power supply unit (PSU 50/PSU 150)	13	Tension wheel
3	Drive unit (NDD/HDD/DD)	14	Door stop
4	Main control unit (MCU/MCU-ER)	15	Cover
5	I/O Unit (IOU)	16	Operation mode selector (OMS)
6	Battery (EEU 12/EEU 24)	17	Support beam
7	Door carriage	18	Lock
8	Door adapter	19	Cover lock
9	Transmission bracket (high)		
10	Transmission bracket (low)		
11	Belt clamp		



## TECHNICAL CHARACTERISTICS

Manufacturer:	ASSA ABLOY Entrance Systems AB
Address:	Lodjursgatan 10, SE-261 44 Landskrona, Sweden
Type:	Besam SL500
Mains power supply:	100 V AC -10% to 240 V AC +10%, 50/60 Hz, fuse 10 AT (building installation)  Note! The mains power supply shall be installed with protection and an all-pole mains switch with isolating capability of Category III, at least 3 mm between contacts, shall be installed according to local regulations. These articles are not provided with the door.
Power consumption:	Max. 250 W
Degree of protection:	IP20
Degree of protection, control actuators:	IP54
Auxiliary voltage:	24 V DC, 1 A
Recommended max. door weight:	Bi-parting without break-out: Besam SL500-2: 200 kg/leaf Single Slide without break-out: Besam SL500-R/L 240 kg For low energy movement: 150 kg/leaf
Clear opening:	Bi-parting: Besam SL500-2: 900 – 3000 mm Single Slide: Besam SL500-R/L: 900 – 3000 mm
Opening and closing speed:	Variable up to approx. 1.4m/s (Besam SL500-2)
Hold open time:	0-60 s
Ambient temperature:	-20 °C to +50 °C
Relative humidity (non-condensing):	Max. 85%
Operator weight:	11 to 26 kg, dependent on configuration and clear opening width
Approvals:	Third party approvals from established certification organizations valid for safety in use, see Declaration of Conformity.
For indoor use only	

## AUTOMATIC SLIDING DOOR LABELS



Check that all required signage is applied and intact. Mandatory indicates that the signage is required by European directives and equivalent national legislation outside the European Union.

(A)	Product label: Mandatory
(B)	Emergency break-out: Mandatory, if approved for escape route.
(C)	ASSA ABLOY Entrance Systems door sticker: Mandatory according to ASSA ABLOY Entrance Systems brand instructions, European directives and equivalent national legislation outside the European Union, to highlight the presence of the glass.
(D)	Supervision of child: Mandatory, if applicable (applied to both sides of the door). To be placed on entrances where the risk analysis shows use by children, elderly and disabled.
(E)	Operator designed for disabled people: Recommended, if applicable (applied to both sides of the door)
(F)	Activation by disabled people: Recommended, if applicable
(G)	No entry, identifying one-way traffic: Mandatory in GB and US, if applicable
(H)	Local product label
(J)	Keep clear
(K)	Automatic door



All dimensions in the catalog are in millimeters (mm).

We reserve the right to make changes.

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