

SGS

Fire resistant sliding door



The fire resistant sliding door is an excellent solution for situations where high fire protection is required as well as specific end user design needs.

The sliding door can optionally be carried out as a double wing sliding door with both wings sliding to one side, bi-parting or sliding telescopically with several wings sliding past each other.

A unique feature of this door is the option to integrate it with an escape door, without the threshold, so that it may be used as an emergency exit door, thereby allowing the fire resistant sliding door to be incorporated into a building's emergency escape route. The sliding door can also be equipped with fire resistant glass to allow visibility through the sliding door while closed.

Door leaf

The door leaf is produced from modules which are 71mm (Standard) or 88mm (Pro) thick. The modules are constructed using galvanized plated steel tube frame bonded to the fire resistant cladding. These modules are joined together using steel wire rods fitted through the modules horizontally during assembly. Strips of intumescent material are applied at the junction between the modules. The door comes standard with both a recessed handle and a surface mounted handle.

Movement system

The movement system consists of labyrinths at the top and side attachments. The labyrinths are manufactured from 2mm galvanized sheet material, filled with strips of intumescent material. The entire system is mounted on a horizontal sliding rail system.

Drive system/operation

The fire resistant sliding door comes standard as a manually operated door fitted with a speed controller and integrated magnet. The door is

self-closing by means of a counterweight.

The sliding door can be optionally fitted with an electric drive system, including a control system. The control system for this design can be implemented in conjunction with smoke or temperature detectors or a fire alarm system, if present.

Optional design features

The fire resistant sliding door can be fitted with an integrated escape door and/or fire resistant glass. Both options are certified in combination with the sliding door.

All the steel components of the fire resistant sliding doors can be coated in any desired RAL colour. All visible steel components can also be manufactured in AISI 304 or 316 stainless steel.

The fire resistant sliding door, in its entirety, can be optionally provided with ATEX certification.



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Classification	Fire rating	max. width	max. height	max. opening
SGS Standard - single wing				
EI(1)	30 minutes	5.550mm	6.750mm	25m ²
EI(1)	60 minutes	5.550mm	6.750mm	25m ²
EI(2)	30 minutes	5.550mm	6.750mm	25m ²
EI(2)	60 minutes	5.550mm	6.750mm	25m ²
EI(2)	90 minutes	3.700mm	4.500mm	16,7m ²
EW	30 minutes	9.250mm	6.750mm	41,6m ²
EW	60 minutes	7.400mm	6.750mm	33,3m ²
EW	90 minutes	5.550mm	6.750mm	25m ²
SGS Standard - double wings				
EI(1)	30 minutes	6.900mm	6.750mm	30,8m ²
EI(1)	60 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	30 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	60 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	90 minutes	4.600mm	4.500mm	20,5m ²
EW	30 minutes	11.500mm	6.750mm	51,3m ²
EW	60 minutes	9.200mm	6.750mm	41m ²
EW	90 minutes	6.900mm	6.750mm	30,8m ²
SGS Pro - single wing				
EI(1)	30 minutes	5.550mm	6.750mm	25m ²
EI(1)	60 minutes	5.550mm	6.750mm	25m ²
EI(1)	90 minutes	5.550mm	6.750mm	25m ²
EI(2)	30 minutes	5.550mm	6.750mm	25m ²
EI(2)	60 minutes	5.550mm	6.750mm	25m ²
EI(2)	90 minutes	5.550mm	6.750mm	25m ²
EI(2)	120 minutes	5.550mm	6.750mm	25m ²
EW	30 minutes	11.100mm	6.750mm	50m ²
EW	60 minutes	9.250mm	6.750mm	41.6m ²
EW	90 minutes	7.400mm	6.750mm	33,3m ²
EW	120 minutes	5.550mm	6.750mm	25m ²
SGS Pro - double wings				
EI(1)	30 minutes	6.900mm	6.750mm	30,8m ²
EI(1)	60 minutes	6.900mm	6.750mm	30,8m ²
EI(1)	90 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	30 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	60 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	90 minutes	6.900mm	6.750mm	30,8m ²
EI(2)	120 minutes	6.900mm	6.750mm	30,8m ²
EW	30 minutes	13.800mm	6.750mm	61,5m ²
EW	60 minutes	11.500mm	6.750mm	51,3m ²
EW	90 minutes	9.200mm	6.750mm	41m ²
EW	120 minutes	6.900mm	6.750mm	30,8m ²

Above data based on the following report:
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