

# D A T A S H E E T

## Fire Resistant Sliding Door KONE SD(T) F30/F60

### General;

- **Application;** single or double sided fire-resistant partition of sliding doors for in- and outside use, minimum 30 or 60 minutes resistance to fire penetration and flashover
- **Model;** straight and telescopic sliding doors in single and double models and single telescopic door leaves with or without fixed screens
- **Dimensions;** max. width x height of the different models, see drawing pages 1.7.06 and 1.7.07
- **Certification;** tested by the Centre for Fire Safety at TNO in accordance with the strict European NEN-EN 1634-1 Standards (Netherlands NEN 6069), mentioned in report 2003-CVB-R0230. N.B.: the KONE SD F60 meets a fire resistance of 93 minutes and radiation resistance of 101 minutes.

### Features door construction

#### Profile System;

- **Type;** Jansen Standard Profile Series 50, 2 mm wall thickness
- **Vertical profiles;** profile width 60 mm, profile depth 50 mm with rounded corners
- **Horizontal Profiles;** profile height 60 mm, profile depth 50 mm with rounded corners
- **Angle construction;** welded corners
- **Surface;**
  - interior use; blast and coated with 1 layer powder coating in a standard RAL colour
  - exterior use; blast, spray galvanise and coated with 2 layer powder coating in a standard RAL colour
- **Draught prevention;** labyrinth seal, sealed with Promaseal PL
- **Accessories;** the system is supplied completely with fire retarding seals, installation materials and bottom support
- **Optional;** mid rail in the doors and/or fixed panels

#### Panel filling;

- **Glazing;** wet glazing with ceramic strips on both sides, profiles with glass beading on 1 side, sealed on both sides with silicon
- **Type of Glass;** dependant on the demanding model there will be applied a 30/60 minutes single or double sided fire load capacity
- **Safety;** All types of glass are protected against walk-through.

#### Operating features:

- **Operation;** selection in manual operated activators (push buttons and switches), motion detectors which are insensible to smoke and temperature oscillations, remote control, entrance control system, and electronic program switch with LED-display (surface mounted or built in)
- **Motion detectors;** 1 and 2 way radar detectors and safety sensors, photo cells.
- **Electronic program switch;** option of several functions: automatic open and close, open position, one-way direction, closed / locked, reduced opening width, sequence opening and reset function
- **External connections;** 4 free programmable inputs and 1 free programmable output, e.g. for fire alarm, entrance control system or external door control.

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### Description and features of sliding construction and operator:

- **Construction;** aluminium rail 160 mm high, supplied with an integrated running rail and basic unit with a control unit, motor and carriers
- **Suspension system;** per door leaf two 3-dimensional adjustable carriers
- **Carriers;** steel carriers with synthetic rollers and bearings to assure a smooth and noiseless running. Maximum load per carrier is 60 kg.
- **Basic unit;** unit pre-assembled on a basic frame with a DC motor engine in rubber buffers and an adjustable tooth belt
- **Control unit;** pre-assembled on a separate support and consisting of a self monitoring computer, programmable opening and closing speed, open time, opening width, several timing functions, manual learning function and obstacle safety reverse
- **Line power;** 230V, 50 Hz, 2 Amp, 1 phase. Nominal power 80 W.
- **Cover;** aluminium design; silver anodized, mill finished or coated in RAL colour.

### Safety features;

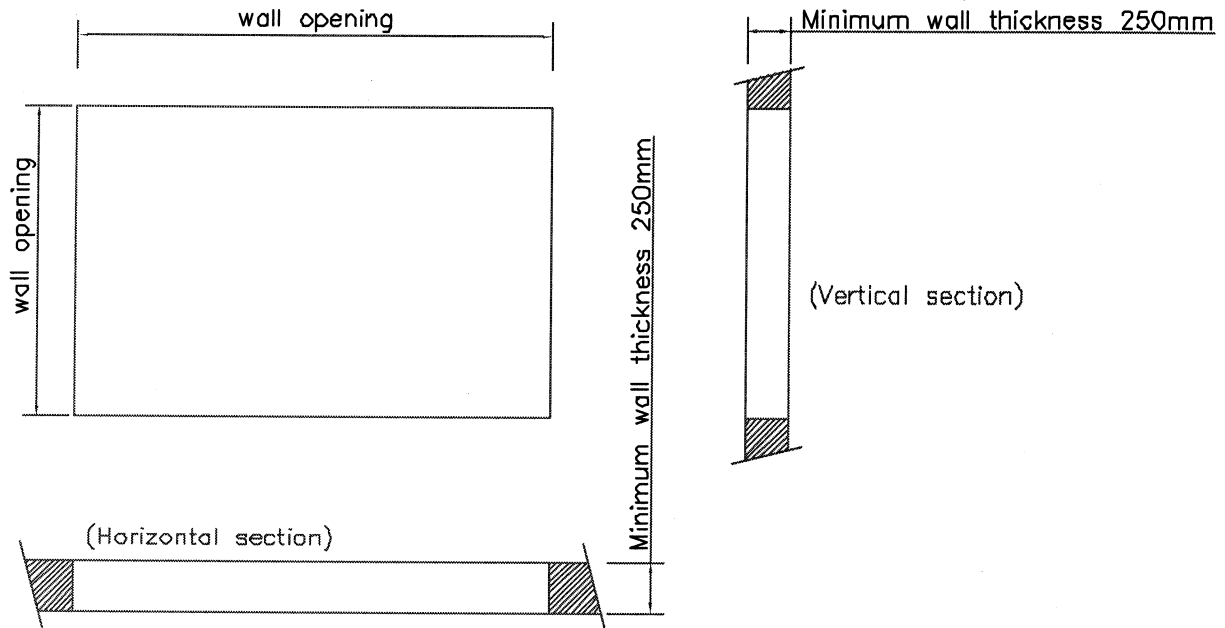
- **Electronic safety reverse;** highly sensitive reverse settings in both open and close direction
- **Finger trap safety;** adjustable to avoid fingers getting stuck
- **Photo cell safety;** guarded and tested, prior to every door closing cycle. Mounted in the door opening, the control unit tests with every door cycle the function of the photo cells
- **Power failure** (optional); a battery unit offers protection against power failure, for temporary take-over of all the functions at power failure
- **Door speed;** automatically adjusted to a safe level based on the door weight and resistance of the door in conformity with the valid standards
- **Locking;** electro mechanical locking in the unit, unlocked if there is no current
- **Connection to fire alarm installation;** possibility to connect with various programmable door functions
- **Fire resistance;** the door closes and unlocks if there is a fire alarm and/or power failure.

### Other facilities;

- continuous bottom guide can be part of the floor finish
- foamed band for sealing the seams around and between the doors
- wall finishing cement with silicone
- mounted in a structural framework, equivalent to aerated concrete (strength at least 600 kg/m<sup>3</sup>)
- anchoring in accordance with the structural facilities, partly using fire-resistant anchors.

# Instruction sheet structural construction

## 1. Massive wall of stone-like material:

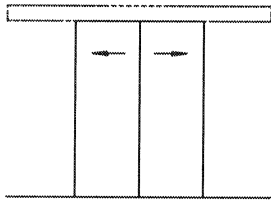


## 2. Stone-like material must have a density of at least $600 \text{ kg/m}^3$

Tested by TNO Built Environment and Geosciences:

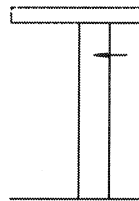
TND-report 2003-CVB-R0230

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1634-1  
NEN  
6069**



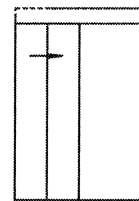
Construction with double doors

Maximum opening  
2298 x 2300



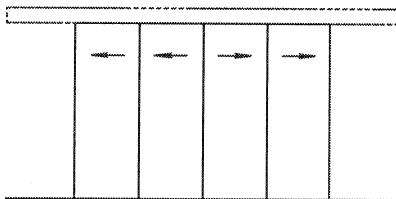
Construction with single door (LO)

Maximum opening  
1470 x 2300



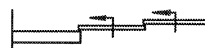
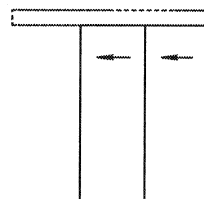
Construction with single door (RO)

Maximum opening  
1470 x 2300



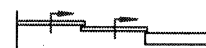
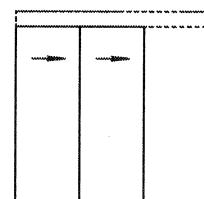
Construction with double telescopic doors

Maximum opening  
4564 x 2300



Construction with single telescopic doors (LO)

Maximum opening  
2271 x 2300



Construction with single telescopic doors (RO)

Maximum opening  
2271 x 2300

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Mentioned dimensions are maximum dimensions

Other dimensions on request

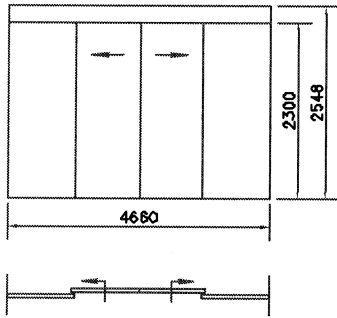
Structural constructions according to sheet 1.7.08

Minimal 60 minutes fire resistant

Waldor® fire resistant doors

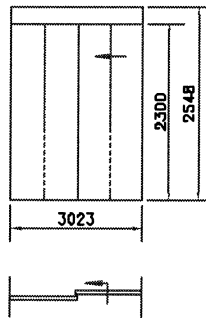
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1.7.07.UK rev.a



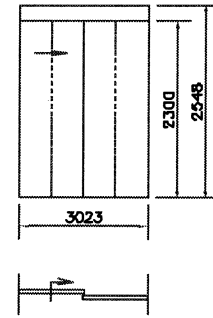
Construction with double doors

Maximum opening  
2298 x 2300



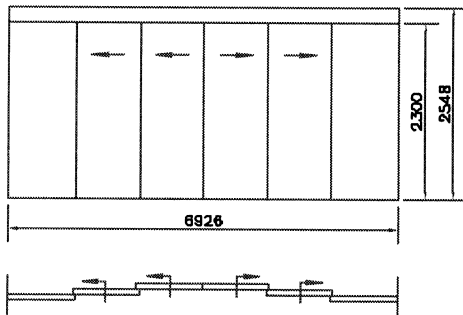
Construction with single door (LO)

Maximum opening  
1470 x 2300



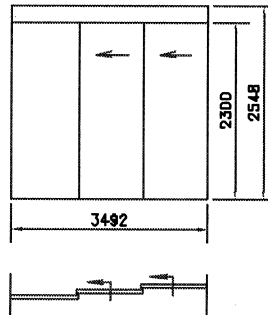
Construction with single door (RO)

Maximum opening  
1470 x 2300



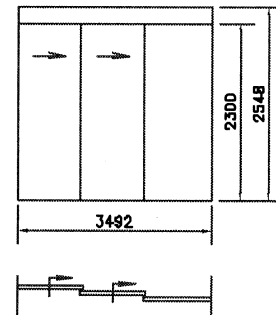
Construction with double telescopic doors

Maximum opening  
4564 x 2300



Construction with single telescopic doors (LO)

Maximum opening  
2271 x 2300



Construction with single telescopic doors (RO)

Maximum opening  
2271 x 2300

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