



INGRESSI AUTOMATICI  
AUTOMATIC ENTRANCE

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## SESAMO REVOLVING DOOR SPECIFICATIONS

**K31 = 3 leaves revolving door / K41 = 4 leaves revolving door**

### PART 1 – GENERAL

#### 1-01 Revolving door





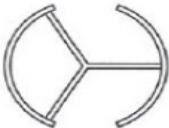

3 & 4 leaf revolving door with diameters ranging from 1800mm to 7500mm come into operation and location with volumes of high traffic where smoothly flowing stream of visitors must be catered for.

#### 1-02 TÜV

All Sesamo revolving doors systems have been “TÜV” approved and certified for normal use and in escape emergency exit routes.

#### 1-03

### Throughput Capacities

Type	Drawing	Diameter	Capacities Persons/min One way				
K31		1800>2300mm	Approx. 12 - 15	X			
		2300>3000mm	Approx. 15 - 30	X	X		
		3000>4000mm	Approx. 30 - 40	X	X	X	
		4000>6000mm	Approx. 40 - 60	X	X	X	X
		6000>7500mm	Approx. 60 - 80	X	X	X	X
K41		1800>2300mm	Approx. 16 - 20	X			
		2300>3000mm	Approx. 20 - 28	X	X		
		3000>4000mm	Approx. 28 - 44	X	X	X	
		4000>6000mm	Approx. 44 - 70	X	X	X	X
		6000>7500mm	Approx. 70 - 90	X	X	X	X

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### PART 2 – PRODUCT

#### 2-01 Door construction

##### 2-01a - Dimensions

Outer diameter 1600mm to 7500mm  
Canopy height 250mm to Ø 4000mm / 350mm to 7500mm  
Passage height 2000mm to 4500mm  
Bespoke solution available on request

##### 2-01b - Door wings

Three or four leaves with 65mm aluminium profiles, with integrated brush seals. Centre of turnstile with profiles, one mechanical lock in one leaf (lockable from inside)

- With 8, 10, 12mm tempered safety glass
- **OPTIONAL:** With 8, 10, 12mm LAMINATED safety glass
- **OPTIONAL:** Bullet resistant glass
- **OPTIONAL:** Aluminium panels
- **OPTIONAL:** All types of glass on request
- **OPTIONAL:** Horizontal stainless steel handles (304 brushed)
- **OPTIONAL:** Vertical stainless steel handles (304 brushed)
- **OPTIONAL:** Break out system
- **OPTIONAL:** Central display cabinet
- **OPTIONAL:** One or two leaves foldable manually once you have opened the locking manually, it might facilitate a free passage
- **OPTIONAL:** Electro magnetic lock

##### 2-01c - Curved side walls

Curved side wall with 65mm aluminium profiles

- With 8, 10, 12mm laminated safety glass
- **OPTIONAL:** Bullet resistant glass
- **OPTIONAL:** Aluminium panels
- **OPTIONAL:** All types of glass on request

##### 2-01d - Canopy

Steel frame construction with integrated insulation, bottom view encased with aluminium panels (number of panels depends on diameter of the door), ceiling removable for inspection, upper ceiling connection closed with a white chipboard (dust roof and not watertight)

- **OPTIONAL:** Weather-proof canopy with integrated waterspouts
- **OPTIONAL:** Aluminium panels
- **OPTIONAL:** Top finish of the canopy with aluminium plate
- **OPTIONAL:** Integrated recessed low-voltage lighting (20W)
- **OPTIONAL:** Integrated recessed low-voltage lighting (DIODE)
- **OPTIONAL:** Integrated air-curtain with vent pointing to the entrance lobby

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### 2-01e - Optional Night Lock

Double leaves, external sliding of drum wall, framed with 65mm aluminium profiles. Lock from both sides via profile cylinder shoot blot lock.

- With 8, 10, 12mm laminated safety glass
- **OPTIONAL:** Bullet resistant glass
- **OPTIONAL:** Aluminium panels
- **OPTIONAL:** All types of glass on request
- **OPTIONAL:** Inside sliding of drum wall
- **OPTIONAL:** Electro magnetic lock
- **OPTIONAL:** with “dead man” drive unit
- **OPTIONAL:** with “automatic” drive unit

### 2-01f - Optional

Revolving doors are standard assembly on finished floor (finished floor should be + or – 3mm)

- **OPTIONAL:** Floor frame - Stainless steel (304) floor frame which support the door (depth 65mm)
- **OPTIONAL:** Floor mat - Cleaning mat with 22mm aluminium grid

## 2-02 Door equipment

### 2-02a - Drive system

Electric mechanism full automatic with microprocessor controlled system. Turnstile allows a particularly comfortable passage and always stops in a airtight closed position. Maintenance friendly as all peripheral connections can be plugged in. motor with over current detection  
Different drives system are possible

- Manual version (up to 3000mm diameter)
- Automatic positioning after having pushed manually (up to 3000mm diameter)
- Push & Go (up to 3000mm diameter)
- Full automatic
- Security revolving door (up to 2400mm diameter) – (always with floor ring)

### 2-02b - Electricity voltage

Main voltage	230VAC / 50Hz
Control voltage	24VDC (protective extra low voltage)
Motor voltage	58 V switch mode
Level of protection	1
Enclosure rating	IP20

- One motor from: 1800 > 3500mm diameter - Power consumption **max 300VA**
- Two motors from: 3500 > 4200mm diameter - Power consumption **max 500VA**
- Three motors from: 4200 > 6000mm diameter - Power consumption **max 800VA**
- Four motors from: 6000 > 7000mm diameter - Power consumption **max 1000VA**
- Five motors from: 6000 > 7500mm diameter - Power consumption **max 1300VA**

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### 2-02c - Controls and security equipments

- Key operated switch  
OFF – AUTOMATIC – PERMANENT - HAND
- Emergency OFF switch  
By pushing the emergency OFF switch the door immediately stops.
- Movement detectors  
Detecting the presence of a person, the door turns 360°
- Safety vertical contact strips at the edges  
To avoid injuries occurring between rotating door wings and drums wall vertical contact strips are installed. When the strips are activated the door immediately stops.
- Safety horizontal contact strips for heel protection  
**Optional up to 3500mm diameter**  
At the bottom part of the door wings, horizontal contact strips are installed for heel protection. When the strips are activated the door immediately stops.
- Vertical sensor at leading edges  
**Optional up to 3500mm diameter**  
The safety rubber strips on the vertical mullion additionally ensure a safe operation. Those sensors are only active if the distance of the turnstile wings is 500mm in front of the mullion. When the sensors are activated in the 500mm space the door will immediately stops.
- 4SAFE horizontal sensors strips  
**Optional up to 4000mm diameter**  
These infrared sensors strips on the turnstile wings on top will detect the area in front on the turnstile. If an object or a person remains in this area the turnstile will go automatically in slow speed. If the person moves away from this detection area the turnstile will automatically speed up at original speed.
- **OPTIONAL:** Disabled access activation  
When using the handicapped push button in operating switch position “AUTOMATIC” or “PERMANENT”, the rotor turns at least 360° in slow speed.
- **OPTIONAL:** Electromagnetic lock for the turnstile (see paragraph 2-01b)  
One electromagnetic lock to close the turnstile:
  - 1) **Or** locked by power failure
  - 2) **Or** unlocked by power failure



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**ONLY FOR SECURITY REVOLVING DOORS (up to 2400mm diameter)**

- Electrical contact mats in the drum of the floor
  - If an authorized person steps of the contact mat after passing the code card reader, the turnstile turn for 90°
  - If an unauthorized person steps of the contact mat, the turnstile turns backwards in slow motion and push the unauthorized person back.
- Code card reader (by other), only the contact coming from
  - The code card reader sends a release impulse to the revolving door

**2-03 Door finish**

The following finishes are available for the enclosure walls, rotating doors leaves and ceiling.

- Painted coating – RAL colours
- Anodized coating
- Stainless steel cover type 304
  - Brushed
  - Mirror finishing
  - As per sample
- Bronze cover
  - Brushed
  - Mirror finishing
  - As per sample
- Wooden colour according to our palette

**PART 3 – EXECUTION**

**3-01 Installation**

**3-01a - Inspection**

Installer must examine the location and advise the Contractor of any site condition unacceptable for proper installation of product. These condition include but are not limited to the following:

- Door can be installed on finished floor or with a floor ring
- Finished floor must be dead level at any point within footprint of the door
- Power supply must be installed

Installation shall not begin until these unacceptable condition are rectified.

**3-01b - Erection**

Install revolving doors in accordance with manufacture's printed instructions. Set unit level, plumb, and with uniform hairline joints. Anchor securely into place. Use only factory trained installers.

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### 3-01c - Adjustment

Installers shall adjust door, hardware and sensors for smooth operation and proper performance.

### 3-01d - Instruction

A factory trained installer shall demonstrate to the owner's maintenance crew the proper operation of the door and the necessary service requirements such as lubrication, cleaning and inspection of components upon completion of the installation.

### 3-01e - Cleaning

Clean metal and glass surfaces carefully after installation to remove excess of caulk, dirt and labels.

## PART 4 – WARRANTY

### 4-01 Guarantee / Warranty

The guarantee is 1 year both for all electric and static parts. This guarantee will begin from the time of the installation and commissioning, which has to be recorded by hand over a Sesamo file.

*The guarantee is only confirmed, if the installation, commissioning is done as per manufacture's instructions or as per supervisor's advise or as per trained installers. The maintenance must be done by skilled SESAMO partners and we will require a maintenance period by 1 time per year as minimum.*

For further request please contact:

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