

BLASI REVOLVING DOOR SPECIFICATION

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

PART 1 - GENERAL







1-01 Revolving Door

3 & 4 leaf revolving doors with diameters ranging from 1800mm up to 7500mm come into operation at locations with volumes of high traffic where smoothly flowing streams of visitors must be catered for.

1-02 TÜV

All Blasi revolving door 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

PART 2 - PRODUCTS

2-01 Manufacturer

Revolving door K31 & K41 as manufactured by:

Blasi GmbH, Carl Benz Str. 5-15, 77972 Mahlberg / Germany

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- **Christian HARTMANN** Sales Manager non group distributors

2-02 Door Construction

2-02-a Dimensions

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

2-02-b Door Wings

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

- With 8, 10 or 12 mm tempered safety glass
- **OPTIONAL:** With 8, 10 or 12 mm laminated safety glass
- **OPTIONAL:** Bullet resistant glass
- **OPTIONAL:** Aluminium panels
- **OPTIONAL:** All type 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 to have opened the locking manually, it could facilitate a free passage
- **OPTIONAL:** Electromagnetic lock to close the turnstile

2-02-c Curved Side Walls

Curved side walls with 65 mm Blasi aluminium profiles

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

2-02-d Canopy

Steel frame construction with integrated insulation, bottom view encased with aluminium panels (number of panels is dependent on diameter of the door), ceiling removable for inspections, 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

2-02-e OPTIONAL: Night lock

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

- With 8, 10 or 12 mm laminated safety glass
- **OPTIONAL:** Bullet resistant glass
- **OPTIONAL:** Aluminium panels
- **OPTIONAL:** All type of glass on request
- **OPTIONAL:** Inside sliding of drum wall
- **OPTIONAL:** Electromagnetic lock
- **OPTIONAL:** With "Dead Man" drive unit
- **OPTIONAL:** With "Automatic" drive unit

2-02-f OPTIONAL:

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

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

2-03 Door Equipment

2-03-a Drive System:

Electric mechanism fully automatic with microprocessor controlled system. Turnstile allows a particularly comfortable passage and always stops in an airtight closed position. Maintenance friendly as all periphery connections can be plugged in. Motor with over current detection

Different drive systems are possible.

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

2-03-b Electricity Voltage:

Mains voltage:	230VAC / 50 Hz
Control voltage:	24 VDC (protective extra-low voltage)
Motor voltage:	58 V switch mode
Level of protection:	1
Enclosure rating:	IP 20

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

2-03-c 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 detector
Detecting the presence of a person, the door turns for 360°
- Safety vertical contact strips at the edges
To avoid injuries occurring between rotating door wings and drums walls vertical contact strips are installed. When the strips are activated the immediately stops
- Safety horizontal contact strips for heel protection
OPTIONAL up to 3500 mm diameter
At the bottom part of the door wings, horizontal contact strips are installed for heel protection. When the strips are activated the immediately stops
- Vertical sensors at leading edges
OPTIONAL up to 3500 mm 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 500 mm in front of the mullion. When the sensors are activated in the 500 mm space the door will immediately stops
- 4SAFE horizontal sensors strips
OPTIONAL up to 4000 mm diameter
The installed infrared sensors strips on the turnstile wings on top will detect the area in front of the turnstile wings. If an object or person remains in this area will the turnstile go automatically in slow speed. If the person moves forward away from this detection area will the turnstile automatically speed up in main speed
- **OPTIONAL:** Disabled access activation
When using the handicapped push button in operating switch position "AUTOMATIC" or "PERMANENT", the rotor turns at least 360° is slow speed
- **OPTIONAL:** Electromagnetic lock for the turnstile (see paragraph **2-02-b**)
One electromagnetic lock to close the turnstile.
1) **Or** locked by power failure
2) **Or** unlocked by power failure

ONLY FOR SECURITY REVOLVING DOOR (up to 2400 mm diameter)

- Electrical contact mats in the drum on the floor
If an authorised person steps of the contact mat after passing the code card reader, the turnstile start turning for 90°
If an unauthorised person steps of the contact mat, the turnstile turns backwards in slow motion and pushes 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

2-04 Door Finish

The following finishes are available for the enclosure walls, rotating door wings and ceiling

- Painted Coating – RAL colours
- Anodized Coating
- Stainless Steel Cover type 304
 - Brushed
 - Mirror finish
 - As per sample
- Stainless Steel Cover type 304
 - Brushed
 - Mirror finish
 - As per sample
- Bronze Cover
 - Brushed
 - Mirror finish
 - As per sample
- Wood colour according to our palette

PART 3 - EXECUTION

3-01 Installation

3-01-a Inspection:

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

- Door can be installed on finish floor or with an 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 conditions are rectified

3-01-b Erection:

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

3-01-c Adjustment:

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

3-01-d Instruction:

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

3-01-e Cleaning:

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

PART 4 - WARRANTY

4-01 Guarantee / Warranty

The guarantee is 1 year of all electric parts, also parts subject to wear and tear. Of all static-parts (frames, construction, bottom ring, glass) the guarantee is 5 years. This guarantee will begin from the time of the installation and commissioning which has to be recorded by a hand over sheet.

The guarantee is only confirmed, if the installation, commissioning is done as per the manufacturer's instructions or as per supervisor's advice or as per trained installers. The maintenance must be done by proofed and skilled BLASI partners and we will require a maintenance period by 1 time per year as a minimum. To avoid any circumstances of the warranty claim we require that only approved BLASI partners have to maintain and eliminate all disturbances only.

4-02 Lifetime Durability Affirmation

We declare herewith that the supplied Automatic Door by BLASI is very carefully tested; well engineered, long time checked and equipped with the newest safety devices. BLASI develops Automatic Door Systems since almost 40 years and have a brilliant reputation for highly engineered products and the design. Our quality management and consequent tests for the lifetime and also the safety of our products are made in accordance to the British standards, the European standards and with the German DIN requirements which should give every user of our products a very high confidence in our complete product range. We therefore can grant to all of our clients a **durability affirmation** with our products of **minimum 15 years**.

With the right support from your local representative partner of BLASI and a yearly maintenance can you count on a proper support and help at all circumstance. If you take care about your door systems can you expect a longer lifetime as with the herewith certified 15 years if you use our systems in a proper manner.

BLASI GmbH reserves the right to change this specification at any time without any pre-notification.

For further questions please contact:

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