

Type Test Certificate P-4046/12

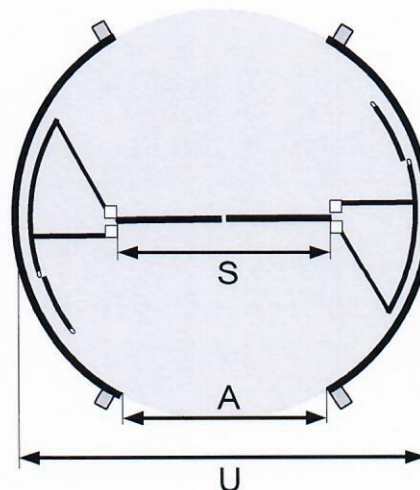
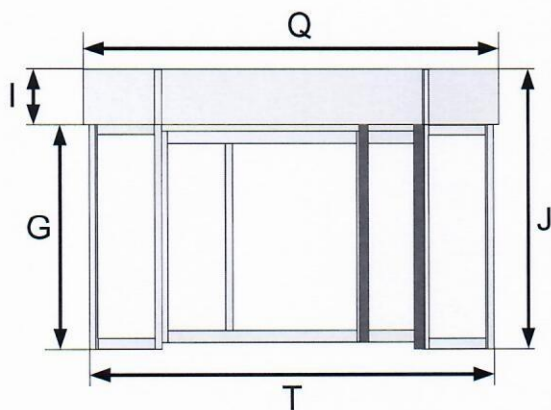
Applicant: agtatec ag
Allmendstrasse 24
CH-8320 Fehraltorf

Manufacturing facilities: Blasi GmbH
Carl-Benz-Straße 5-15
77972 Mahlberg

Model: **K21**
2-wing revolving door with automatic sliding door / manual swinging door in the rotor
Designation code:
K21 →

S	-	Sliding door
P	-	Swing door
FM	-	Fixed center segment
VI	-	Showcase
-XX	-	Rounded inner diameter of the system

Permitted design:



U = Inner diameter	3,600 mm	4,200 mm	4,800 mm	5,400 mm	6,000 mm
	Intermediate sizes optionally also possible				
A = Passage width	2,005 mm	2,347 mm	2,688 mm	3,030 mm	3,371 mm
Q = Total diameter, outside (incl. canopy)	3,758 mm	4,358 mm	4,958 mm	5,558 mm	6,158 mm
T = Outside diameter (drum wall)	3,652 mm	4,252 mm	4,852 mm	5,452 mm	6,052 mm
S = Center passage width	1,640 mm	1,940 mm	2,240 mm	2,540 mm	2,840 mm
I = Canopy height	350 mm (with integrated roof pan 370 mm)			550 mm	
	With integrated air curtain always 630 mm, and with air curtain and roof pan 650 mm, resp.				
G = Passage height	2,100 – 3,000 mm				
J = Total height	G + I				
LH = Clear height (dimension in unfinished state)	min. J + 50 mm				
LB = Clear width (dimension in unfinished state)	min. Q + 100 mm				

Technical data:

Rated voltage:	220-240 VAC, 50/60 Hz
Rated output:	1600W
Degree of protection:	IP20
Protection type:	SK I
Temperature range:	-15°C to +50°C
Humidity range:	up to 85% rel. humidity
Control voltage:	24VDC
Motor voltage:	48VDC cycled
Nominal weight:	depends on diameter
Extra weight inside showcases:	max. 15kg each showcase

Glazing:

- All curved glasses to be of laminated safety glass 10mm VSG, optional 8mm or 12mm possible
- All flat glasses to be toughened safety glass 10mm or 10mm laminated safety glass, optional 8mm or 12mm possible
- Optional 12mm panel filling possible

Protection of the hazard spots of the revolving door:

- Drum edge
 - Contact strip, CONTACT-OPTIMA-PROFIL, type 040.53 (53mm)
 - Contact strip, CONTACT-DUO-PROFIL, type 003.10I (77mm)
 - Presence sensor, type IRIS-ON-C or
 - Light barriers P-LS, at least 4 light barriers on each drum edge
- Rotor, vertical wing edge
 - Radial slide wing with stopper
 - Contact strip, CONTACT-OPTIMA-PROFIL, type 040.26 (26mm)
 - Contact strip, CONTACT-DUO-PROFIL, type 001.10I (33mm)
 - Contact strip, CONTACT-OPTIMA-PROFIL, Typ 040.53 (53mm)
 - Leading presence sensor, type 4SAFE line

- Rotor, horizontal wing edge (heel protection)
 - Light barrier, type P-LS (slow function)
 - Light barrier, type P-LS (stop function)
 - Optional contact strip, CONTACT-OPTIMA-PROFIL, Typ 040.26 (26mm)
 - Optional contact strip, CONTACT-DUO-PROFIL, Typ 016.10 (45mm)

Rotor design:

- Integrated automatic sliding door STA 20 or
- Manual swing door or
- Fixed center segment
- with or without showcase.

Classification code:

Classification according to DIN 18650-1							
1	2	3	4	5	6	7	8
5	3	5	0	1/2	0	1/2/4	4

Permitted options:

- Automatic control by radar sensors, type RAD 290
- Signal transducer for actuating inside and outside by floating contacts
- Electro-mechanical, bistable locking unit in drive mechanism
- Dust roof
- Roof pan with waterspout
- Rooflight
- Different floor and matting
- Air curtain
- Uninterruptible power supply for temporary maintenance of function during power failure
- lighting Inside
- Key-operated emergency button
- BDE-V key-operated switch

Agreed test specifications:

1. DIN 18650-1/2: 2010-06
Locks and finish hardware - Automatic door systems
2. DIN EN 16005: 2013-01
Power operated pedestrian doorsets - Safety in use
3. DIN EN 60335-1: 2016-06
Safety of household and similar electrical appliances
Part 1: General requirements
4. DIN EN 60335-2-103: 2016-05
Safety of household and similar electrical appliances
Part 2-103: Particular requirements for drives for gates, doors and windows

as well as the regulations and guidelines referenced in the above agreed test specifications.

Conditions:

1. A risk assessment of the equipment for which the conditions on site shall be considered, is to be made before installation. Depending on the results of the risk assessment, the equipment shall be equipped with all required sensors and other guards.
2. The control unit of the revolving doors type „K21“ is only suitable for dry rooms and shall be labelled accordingly. In other cases, proper seals and water drains shall be provided.

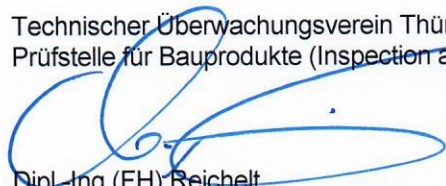
3. The equipment shall only be installed and started up by the manufacturer or an authorized specialist contractor.
4. Rotor wings and side wings made of transparent material shall be marked so as to be easily identifiable.
5. Every automatic revolving door shall be equipped with an all-pole disconnectable main switch that is protected from unauthorized use. Connection of the drive by plug connectors according to the accepted rules of good engineering is permitted.
6. Automatic revolving doors must have an emergency stop button near the access points. The emergency stop button should be positioned between 0.85m and 1.20m above floor level.
No emergency stop button is needed on the outer access side if the operator ensures that an additional emergency stop switch is provided at a permanently manned place (e.g., a gate) with visual contact to the revolving door during the time for which the revolving door is in use.
7. Buttons that reduce the rated speed of the rotor for handicapped persons can be provided at both access sides of the revolving door up to 0,85 m installation height.
8. Before the revolving door is started up, an inspection by a professional person shall be made and the results documented in writing.
9. The manufacturer shall supply each revolving door to the buyer / owner together with the following documents:
 - Operation instructions
 - Inspection log with details of maintenance and intervals
 - a copy of this Type Test Certificate, type test mark P-4046/12.

Notes:

1. This Type Test Certificate is only valid together with the test report No. P-4046/12.
2. The type test sample does not meet requirements under fire protection reasons (fire rating, smoke tightness).
3. Any other requirements by the competent building inspectorate with reference to the building regulations at the installation site of the revolving door are not affected by this Certificate.
4. The type examination certificate is valid until 2022-12-31. If there are significant changes to the technical regulations re-examination may be required.
5. This certificate replaces the certificate P-4046/12 on 2014-08-01.

Zella-Mehlis on 29.10.2018

Technischer Überwachungsverein Thüringen e.V. (Technical inspection association of Thuringia)
Prüfstelle für Bauprodukte (Inspection authority for construction products)


Dipl.-Ing (FH) Reichelt
Leiter der Prüfstelle (Director of the inspection authority)

