

Type Approval Certificate (English Issue) P-4029/10

Applicant: GEZE GmbH
Reinhold-Vöster-Straße 21-29
71229 Leonberg

Manufacturing plant: GEZE GmbH
Reinhold-Vöster-Straße 21-29
71229 Leonberg

Type Approval Mark:



Type: Automatic double-leaf in-line sliding door, 2 motors technology, for the use on escape and rescue routes

weight of leaf	opening width	clear passage height
2 x 120 kg	2500 mm	2150 mm

Model: ECdrive-FR

Approved design:

- Automatic single-leaf in-line sliding door, optionally closing to the left or right, for the use on escape and rescue routes
- Automatic double-leaf in-line sliding door, closing in the middle, for the use on escape and rescue routes

Dimensions as stated in installation plan; glazing: ISO / ESG / VSG

leaf weight	opening width
max. 1 x 120 kg	max. 3000 mm
max. 2 x 120 kg	max. 3000 mm

Types of design

- | | |
|--------------------|-----------------------------------|
| - ESG sliding leaf | - light metal doors / frame doors |
| - VSG sliding leaf | - post and locking bolt design |
| - ISO sliding leaf | - metal doors |
| - IGG sliding leaf | - wooden doors |
| - GGS sliding leaf | |

- Besam- fittings systems within the following limits:

- Besam-Mono-Fitting

leaf weight:	opening width:	Clear passage height:
max. 1 x 120 kg	700 - 3000 mm	max. 3000mm
max. 2 x 120 kg	900 - 3000 mm	max. 3000mm

- Besam-VS1-Fitting

leaf weight:	opening width:	clear passage height:
max. 1 x 120 kg	700 - 3000 mm	max. 3000mm
max. 2 x 120 kg	900 - 3000 mm	max. 3000mm

- Besam-VS2-Fitting
 - leaf weight: opening width: clear passage height:
 - max. 1 x 120 kg 700 - 3000 mm max. 3000mm
 - max. 2 x 120 kg 900 - 3000 mm max. 3000mm
- Ritterwand-Matrix - sliding leaf within the following limits:
 - leaf weight: opening width: clear passage height:
 - max. 1 x 120 kg 700 - 3000 mm max. 3000mm
 - max. 2 x 120 kg 900 - 3000 mm max. 3000mm

- Approved Options:**
- locking unit integrated in drive
 - floor level locking
 - cantilever bracket with supporting panels / side elements
 - actuation elements and presence sensors acc. current sensor list version provided as annex I
 - contact maker for unlocking; inside and outside
 - Using of a Motor-Brake in Service mode for Closing Times(FR-LL)
 - Using of a second Presence Detector, disable in Escape Direction (FR-DUO)
 - connection of GMA / BMA externally via potential free contact at terminal strip of control unit
 - Potential free contact to lock monitoring and reporting of the State of an alarm system or building management system
 - Reduced opening width **taking into account the minimum width of escape route**

- Testing based on the following:**
1. Guideline for automatic sliding doors on escape and rescue routes (AutSchR) (Information of the DIBt, Dec 1998 edition)
 2. DIN 18650-1/2: 2005-12
Locks and metal fittings - Automatic door systems
 3. DIN EN 16005: 2013-01
Power operated pedestrian doorsets - Safe in use
 4. DIN EN 60335-1: 2012-10
Household and similar electrical appliances – Safety
Part 1: General requirements
 5. DIN EN 60335-2-103: 2010-05
Household and similar electrical appliances – Safety
Part 2-103: Particular requirements for drives for gates, doors and windows
 6. DIN EN ISO 13849: 2008
Safety of machinery - Safety-related parts of control systems
- All standards, regulations or guidelines named in the above-mentioned basic documents must also be considered valid.

- Conditions:**
1. Before erection and commissioning of the system a hazard analysis has to be done considering the local conditions. The system has to be equipped with the necessary sensors and protection measures due to the result of the risk analysis.
 2. Sensors to control the drive and to detect objects or people are to be selected from the sensor list at annex I of that Type Approval Certificate. For that matter any restrictions on use specified by the manufacturer have to be followed
 3. Automatic sliding doors model "ECdrive-FR" are appropriate only for dry rooms and have to be marked accordingly.
 4. Only specialised companies may install automatic sliding doors and their associated switching devices and controlling elements.
 5. Dimensions and weight of the door leaves and door leaf frames as well as materials must comply with the parameters stated in the respective approved drawings.

6. Door leaves and side elements / supporting panels made of transparent material must be clearly marked at the place of installation.
7. Each automatic sliding door has to be equipped with an all-pole main switch protected from unintentional or unauthorised re-activation. The switch integrated in the drive may alternatively be used as the main switch.
8. For each automatic sliding door, the following technical documents and any possible additions must be handed over to the builder-owner or the operator of the building:

Installation instructions with necessary technical documentation

- User Manual with:
 - functional description
 - procedures for setting into operation
 - troubleshooting and maintenance guide
 - remarks about the testing and deadlines
 - Test Book specifying maintenance procedures and deadlines
 - A copy of the type approval certificate P-4029/10.
9. Before commissioning automatic sliding doors model "ECdrive-FR", a test is required to be performed by a technical expert with written proof of the testing results.

The door system has to be tested at least once a year by a technical expert. The manufacturer's instructions concerning maintenance intervals must be adhered to.

Notice:

1. This type approval certificate authorises the manufacturer to mark the products of the "ECdrive-FR" model with the Ü-Mark (Conformity Mark) according to Building Regulation List A, part 1, no. 6.18 and 6.24, stating model, year of manufacture and serial number. [Building Regulation List A is a list of building industry products that are subject to general technical rules agreed upon.]
2. Automatic sliding doors in escape and rescue routes may be locked, as long as there are no requirements concerning its use as escape and rescue route for that period of time. This should usually be the case if there are no persons in the building or if there is another escape and rescue route posted for people who are present.
3. Automatic sliding doors are not required to be equipped with an emergency control device (emergency switch).
4. As an option, danger warning devices (GMA) or fire detectors (BMA) of the building may be externally connected to the control of the door as a potential-free contact.
5. The door system was tested due to durability class 3 (1.000.000 cycles) and to ambient temperature class 2 (-15°C to +50°C).
6. The approved type does not fulfil any requirements in terms of fire protection (fire resistance, smoke tightness).
7. The type examination certificate is valid until 2017-12-31. If there are significant changes to the technical regulations re-examination may be required.
8. This certificate replaces the certificate P-4029/10 on 2010-12-13.

Zella-Mehlis, 2013-04-19

Association for Technical Inspection (TUV) Thüringen e.V.
Test Centre for Building Industry Products

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