GEZE AUTOMATIC DOOR SYSTEMS



GEZE SLIMDRIVE SC/SCR AUTOMATIC SEMI-CIRCULAR AND CIRCULAR SLIDING DOORS



BEWEGUNG MIT SYSTEM

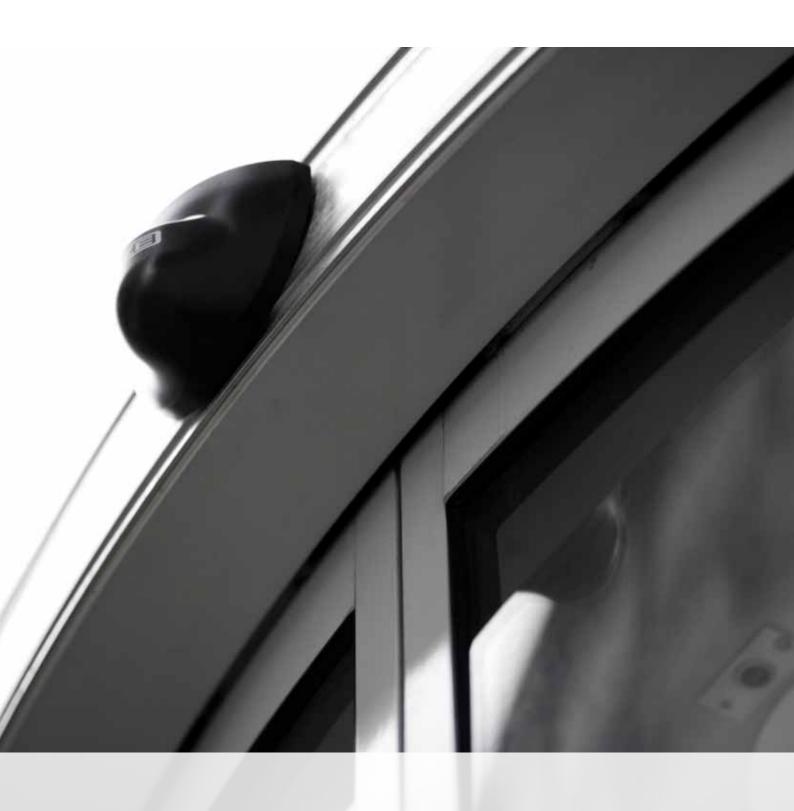


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Belgian SkyShops, Brussels International Airport • GEZE Slimdrive SC automatic semi-circular sliding door with a drive height of just 7 cm

INTRODUCTION

7 cm – A nice round figure

The entrance area is your building's ambassador. Automatic semi-circular and circular sliding doors serve a purpose in terms of both function and design – so by making them an eye-catching part of your facade, you can transform your entrance area into something that really makes a statement. Even where overall dimensions are narrow, they create ample space for the passage of traffic. With our diverse range of options, we can offer the right solution for every building, whatever the requirements of the entrance area. Door systems can have a convex or concave shape and may be integrated into the building in a huge variety of ways, enabling us to implement virtually any technical solution possible. Two curved sliding doors can even be combined to create an aesthetically pleasing circular configuration. This kind of design can be positioned either centrally or off-centre in the facade.

GEZE door systems create more space and light. Incorporating an optional glass roof is a way of even further emphasising an inviting atmosphere. Standing at just seven centimetres in height, the drive features the same narrow post and rail structure as is used for glass facades. The moving leaves and side parts are fine-framed and add to the visual impression of light and transparency.

These types of applications rarely use conventional doors, so that's why we're equipped with all the resources needed meet all your wishes and requirements. We can bring solutions with any dimensions and passage heights to fruition, and produce every door system to satisfy individual needs. Our extensive range means you're sure to find exactly the right colours, surfaces and configuration for your building.

PRODUCT BENEFITS The best solution for escape and rescue routes

Our semi-circualr and circular sliding doors are TÜV type-tested and meet the requirements of the German guidelines on automatic sliding doors in escape routes (AutSchR) and on power-operated windows, doors and gates (BGR 232). Redundant control and drive technology, as well as special actuation devices, ensure the safety of escape and rescue routes, and all relevant safety functions are monitored. The drive control system ensures that the door's automatic opening function continues to work even in the event of a fault or power failure. All GEZE semi-circular and circular sliding doors are type-tested and certified in accordance with DIN 18650.

All the benefits at a glance



DIN18650



- Individual planning and production services for every building
- Each variant is TÜV type-tested in accordance with DIN 18650
- The extremely low drive height allows for large passage heights and conveys a sense of high-class elegance. The vast amount of light falling into the building creates light, pleasant entrance and emphasises a sense of transparency in the building's aesthetics.
- The variant featuring a glass roof further emphasises this transparency.
- High-quality materials and cutting-edge control technology ensure maximum performance in your entrance area.
- Semicircular and circular sliding doors create an opening width of up to 40% more as compared with linear sliding doors.
- · Ideally suited to glass facades featuring a narrow post and rail structure
- The central suspension system for the moving leaves ensures extremely quiet sliding motion and a long service life.
- FR variant also available for use in escape and rescue routes (in accordance with German AutSchR)
- Easy to operate and set thanks to proven sliding door technology



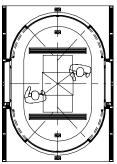
Inometa, Herford, Germany • GEZE Slimdrive SCR automatic circular sliding door

semi-circular and circular sliding doors

APPLICATION AREAS

- High-status business premises
- Hotels and restaurants
- Hospitals
- Residential and care homes
- Airports and railway stations
- Trade fairs, exhibitions and car dealerships
- Draught proof systems
- Suitable for new buildings and conversion/renovation projects thanks to low height







Miele Museum, Gütersloh, Germany Oval-shaped GEZE Slimdrive SCR-FR circular sliding door with suspended hot-air curtains



Steiff Museum, Giengen, Germany GEZE Slimdrive SC single-leaf semi-circular sliding door

DIMENSIONS

- Drive height of just 7 cm
- Option of single and double-leaf variants
- Max. leaf weight 120 kg, (single-leaf: 100 kg)
- Linear opening width: Max. 1900 mm with a clear height up to 2500 mm Max. 2300 mm with a clear height up to 2300 mm We will be happy to create solutions with different dimensions on request.
- Clear passage height: 3000 mm, higher if required

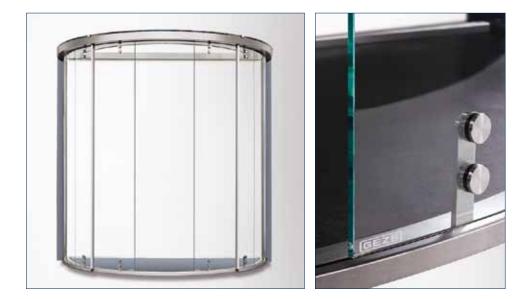
SYSTEM DESCRIPTION • Door profiles and track made of aluminium or covered

- Continuous floor guide made from stainless steel
- System design may be convex (running on inside) or concave (running on outside)
- Side and top connections to concrete, brickwork, steel constructions, glass constructions
- and post and rail constructions can be released individually.
- Large variety of surface variants
- The system and moving leaves may be fine-framed with GEZE profile systems or fitted with the GEZE GGS fitting system.
- A variety of configuration variants is available for side parts and ceilings.

Maximum-quality door design

Slimdrive SC-GGS variant – elegance and transparency without borders

The simple and functional shape of this stainless steel fitting opens up a wide variety of individual possible applications – as do the options of how it can be combined with curved sliding doors. By incorporating the GGS fitting system (GEZE all-glass systems), curved sliding doors will leave a great impression of perfect design. The variant featuring a glass roof maximises the sense of transparency. Each of the moving leaves is attached to the roller carriage using two point supports and can also be designed without a frame. Point supports are also used to fasten the floor guide to the glass. The side parts are made from curved, laminated safety glass and fitted with extremely slim profiles for protecting edges. The SC-GGS variant can also have a circular sliding door configuration through the combination of two semi-circular sliding doors. The minimum radius is 1250 mm, while the maximum clear passage is 2500 mm and the maximum leaf weight 100 kg. However, we can also create solutions with larger or smaller dimensions on request. The FR version is available for use in escape and rescue routes.



TECHNICAL DETAILS

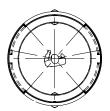
Design of FR variant for use in escape and rescue routes

- Single fault-safe thanks to 2-motor technology/battery (SC-FR and SCR-FR) in conjunction with a redundant controller
- Lockable programme switch
- The programme switch may only be operated by authorised persons, meaning that a key-operated switch is absolutely essential. The selected operating mode must be clearly recognisable.
- Self-monitoring movement detector (redundancy):
 The detector function must be continuously monitored. The door opens if a fault is detected (maintenance required).
- Notes on locking escape and rescue route doors ("Night" operating mode): Automatic sliding doors for use in escape and rescue routes must be locked, provided that the sliding door is not subject to any escape and rescue route requirements during this particular period of time. This is usually the case if there are no persons in the building or if another escape route has been specified for them.

Description of control with functions

- · Fully digital control with high-performance microprocessor
- All system settings can be made and functional, fault and maintenance parameters displayed by means of GEZE display programme switches
- Operating modes: Automatic, permanent hold-open, shop closing time (one-way), night
- Infinitely adjustable reduced opening width in teach-in mode, with the minimum escape route width taken into consideration for the FR variant: this is dependent on the number of persons who are to use this exit and is at least one metre for five or more persons.
- Different hold-open times for summer operation, winter operation and key activation
- Statistical data and errors displayed via programme switch (number of opening movements, service interval display)
- · Self-teaching door controller
- · Stay-open time automatically adapts to volume of traffic (can be activated)
- Connection to fire alarm system
- · Electromechanical locking mechanism with optional status contact for alarm systems
- Individually adjustable opening and closing speed
- · Error display for safety sensor and radar movement detector
- · Controls with special function available on request







GEZE Slimdrive SCR circular sliding door with glass roof and raised ceiling dome

	Slimdrive SC semi-circular sliding door	Slimdrive SCR circular sliding door		
Dimensions				
Opening width (2-leaf)	800 - 3000 mm	800 - 2300 mm		
Radius	1000 mm - infinite	1000 - 1800 mm		
Clear height	3000 mm	3000 mm		
	Higher on request	Higher on request		
Leaf weight (2-leaf)	max. 120 kg	max. 120 kg		
Leaf weight (1-leaf)	max. 100 kg	max. 100 kg		
Dome height	from 70 mm	from 70 mm		
Moving leaf				
Standard	Laminated safety glass, 10 mm,	Laminated safety glass 10 mm		
Stanuaru	fine-framed	Laminated safety glass, 10 mm, fine-framed		
CCS variant				
GGS variant	Toughened safety glass (H),	Toughened safety glass (H),		
	10 mm, with GGS fitting system	10 mm, with GGS fitting system		
	Special glass types available	Special glass types available		
C 1	on request	on request		
Side parts				
Standard	Laminated safety glass, 10 mm,	Laminated safety glass, 10 mm,		
	fine-framed	fine-framed		
	Panel filling, 22 mm	Panel filling, 22 mm		
	Straight panels, 34 mm	Straight panels, 34 mm		
GGS variant	Laminated safety glass, 12 mm,	Laminated safety glass, 12 mm,		
	without frame	without frame		
	Special glass types available	Special glass types available		
	on request	on request		
Surfaces	RAL powder coating	RAL powder coating		
	Anodised light metal (E6/EV1)	Anodised light metal (E6/EV1)		
	Colour anodising acc. to sample	Colour anodising acc. to sample		
	Anodised finish similar to	Anodised finish similar to		
	stainless steel	stainless steel		
	Covered with polished	Covered with polished		
	stainless steel	stainless steel		
	Covered with stainless steel,	Covered with stainless steel,		
	grain 240	grain 240		
	Special coatings available on	Special coatings available on		
	request	request		
Roof structure	Drive cover as optical sheet	Drive cover as optical sheet		
	metal casing	metal casing		
	Waterproof with 2 spouts	Waterproof with 2 spouts		
	(exterior)	(exterior)		
	Glass roof with plate surround	Glass roof with plate surround		
	for drive unit	for drive unit		
Eitting options				
Fitting options	Earwariant with reaf	For variant with roof		
Lighting	For variant with roof			
	(not possible with glass roof)	(not possible with glass roof)		
Floor covering	Strip mat	Ctrip mat		
Floor covering	Strip mat	Strip mat		
	Acc. to customer requirements	Acc. to customer requirements		
0.0	NUMERIC	D		
Off-centre	Not possible	Possible		
facade connection				
Hot-air curtain system	Possible depending on ceiling	Integrated into suspended		
	structure	ceiling with dome height		
		of just 7 cm		
Special functions	On request	On request		

Semi-circular and circular design

Nominal radius (mm)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
System angle	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°	180º
Passage angle	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°
System width (mm)	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000
Clear passage width (mm)	1144	1273	1401	1530	1658	1787	1916	2044	2173	On request	On request
Curve length (mm)	3142	3456	3770	4084	4398	4712	5027	5341	5655	5969	6283

Standard dimensions

Curve length (BL) = max. 5500 mm Passage width (LW) = 1000 mm - 2300 mm

Approximate calculation of curve length (BL)

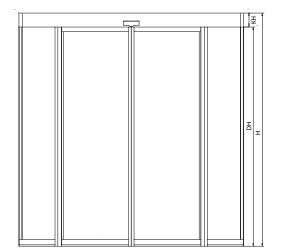
• With specified radius (r) and angle (y)

$$\mathsf{BL} = \mathsf{r} \cdot \frac{\mathsf{y} \cdot \pi}{180}$$

• With specified depth (T) and system width (B)

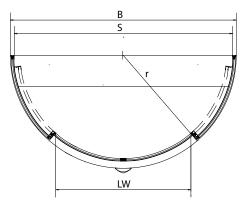
$$BL = \sqrt[7]{B^2} + \frac{16}{3} \cdot T^2$$

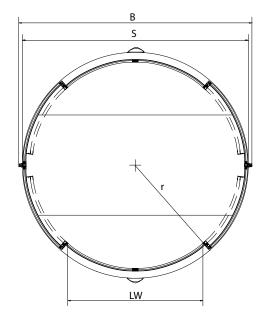
VERTICAL SECTION

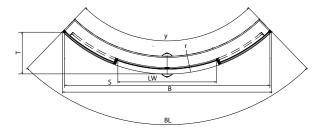


Abbreviations				
LW	Passage width			
r	Nominal radius			
S	Inner width			
В	System width			
KH	Dome height			
Н	System height			
DH	Passage height			

HORIZONTAL SECTIONS







Slimdrive SC/SCR

Special variants

SLIMDRIVE SC SEMI-CIRCULAR SLIDING DOOR

Basic shape

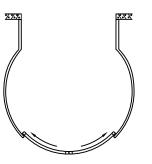
Slimdrive SC semi-circular sliding door

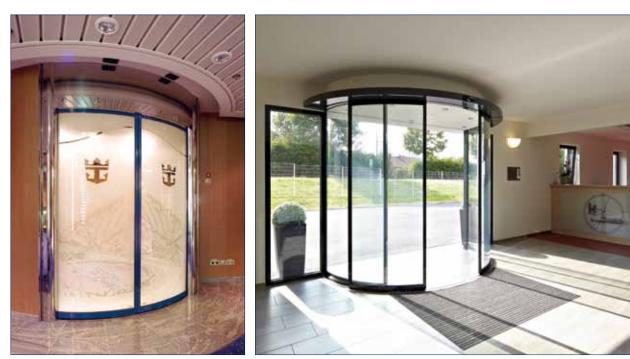
Double-leaf or multiple-leaf semi-circular sliding • Curves running together door, in any combination





• Lengthened semicircular configuration





Jewel of the Seas

Hippauf & Stegmüller, Arnstorf, Germany

Slimdrive SC/SCR

SLIMDRIVE SC SEMI-CIRCULAR SLIDING DOOR

Special variants

 180° draught lobby Double-leaf semi-circular sliding door combined with linear sliding door

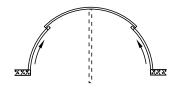


- 270° corner door Double-leaf, centrally opening, or each single leaf opening outward

 90° corner door Maximum opening width with optimum use of space



• Double entrance For separate entrances and exits





Museum of Textile and Industry, Augsburg, Germany



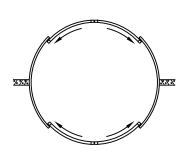
Lexus car dealership, Riga, Latvia

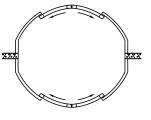
SLIMDRIVE SCR CIRCULAR SLIDING DOOR

Basic shape

Slimdrive SCR circular sliding door

- 360° draught lobby
- Two double-leaf semi-circular sliding doors, each 180° with separate drives

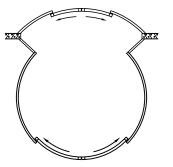




• Pre-manufactured as oval, draught lobby

Special variants

• Enlarged draught lobby





Four Elements, Düsseldorf, Germany



Lufthansa, Köln, Germany



You can set the following operating modes using the programme switch:

Permanent hold-open operating mode

The door moves to the OPEN position and remains open. Movement detectors and opening buttons are deactivated.

Night operating mode

The movement sensors are switched to an inactive state and the door closes. As an option, the door leaves can be locked electrically to prevent them from being forced open.

Shop closing time (one way) operating mode

The door opens and only closes if someone is going from the inside to the outside. The external movement detector is inactive and the internal one is switched to active.

Automatic operating mode

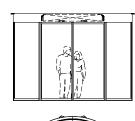
The door opens as soon as movement detectors or buttons are activated, and closes again after an adjust-able period of time. A safety sensor system safeguards the movement path of the leaves. The door will not close if a person is in the opening.

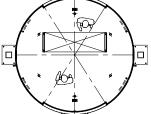
Reduced opening width operating mode

Activate or deactivate the settings made in teach-in mode

Key-operated switch

The programme switch can be disabled using a key-operated switch (required for FR variants).

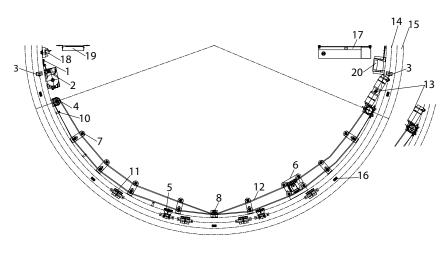






GEZE Slimdrive SCR circular sliding door with integrated hot-air curtain system in raised ceiling dome

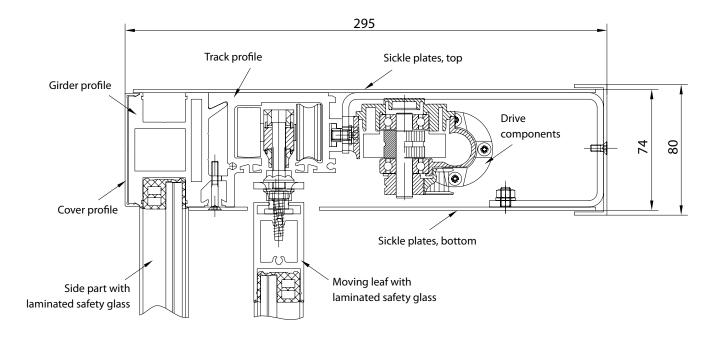




Key:

- 1 Earthing connection
- 2 Transformer
- 3 Buffer
- 4 Deflection pulley
- 5 Carrier (long)
- 6 Toothed belt locking mechanism
- 7 Roller holder
- 8 Tandem deflection pulley
- 9 Close safety sensor (SIS)
- 10 Cable holder
- 11 Roller holder
- 12 Toothed belt
- 13 DCU1/DCU1-2M drive motor
- 14 Track
- 15 Girder profile
- 16 Clamping sliding blocks
- 17 Control
- 18 Relay for SIS
- 19 Control unit for SIS
- 20 Battery

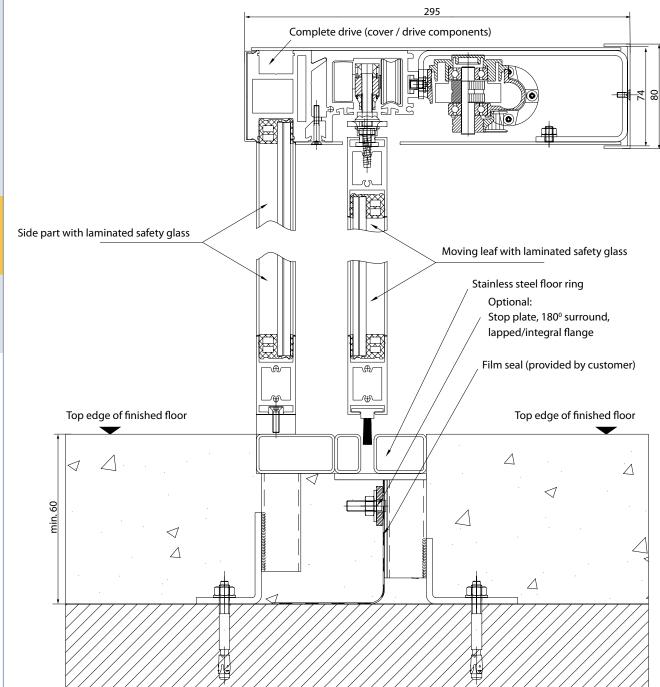
DRIVE RAIL AND SIDE PARTS



Slimdrive SC/SCR

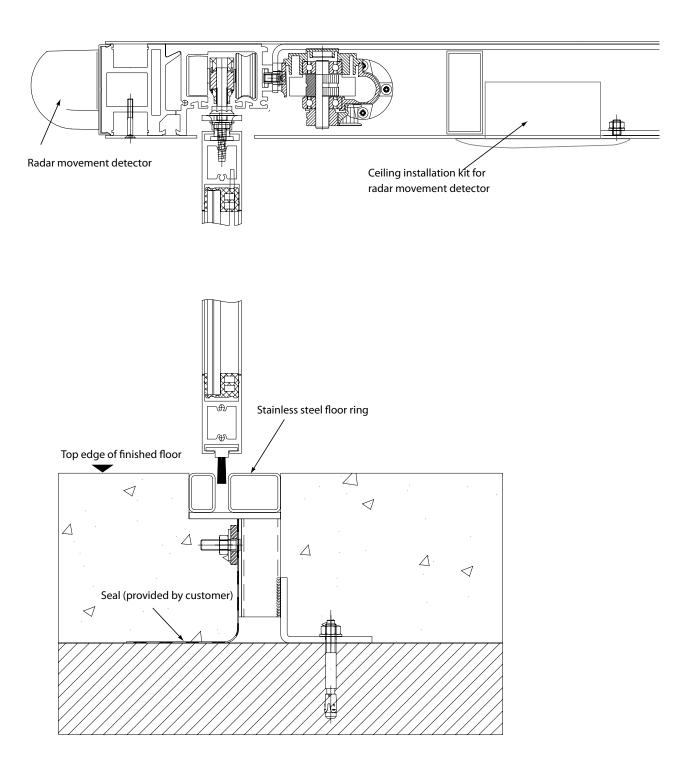
SLIMDRIVE SC(-FR)

Side part area



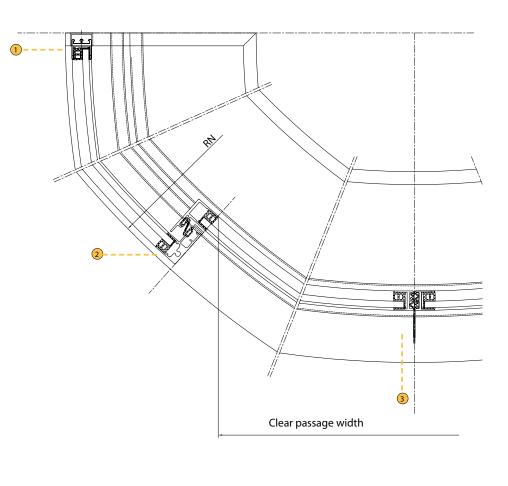
SLIMDRIVE SCR(-FR)

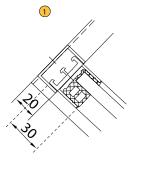
Transit area

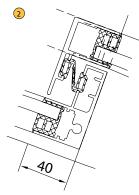


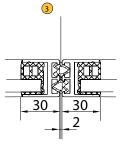
SLIMDRIVE SC(-FR)

Horizontal sections





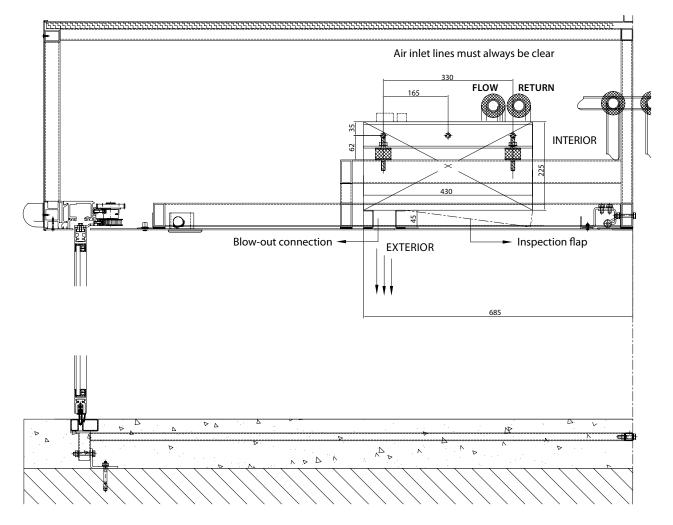






HOT-AIR CURTAINS

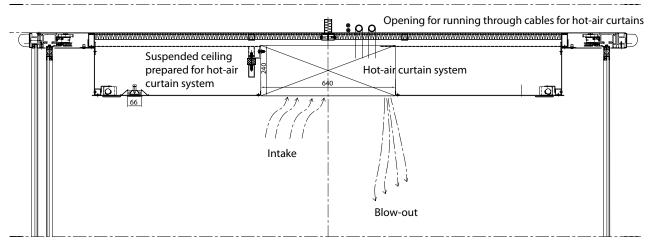
In raised ceiling dome



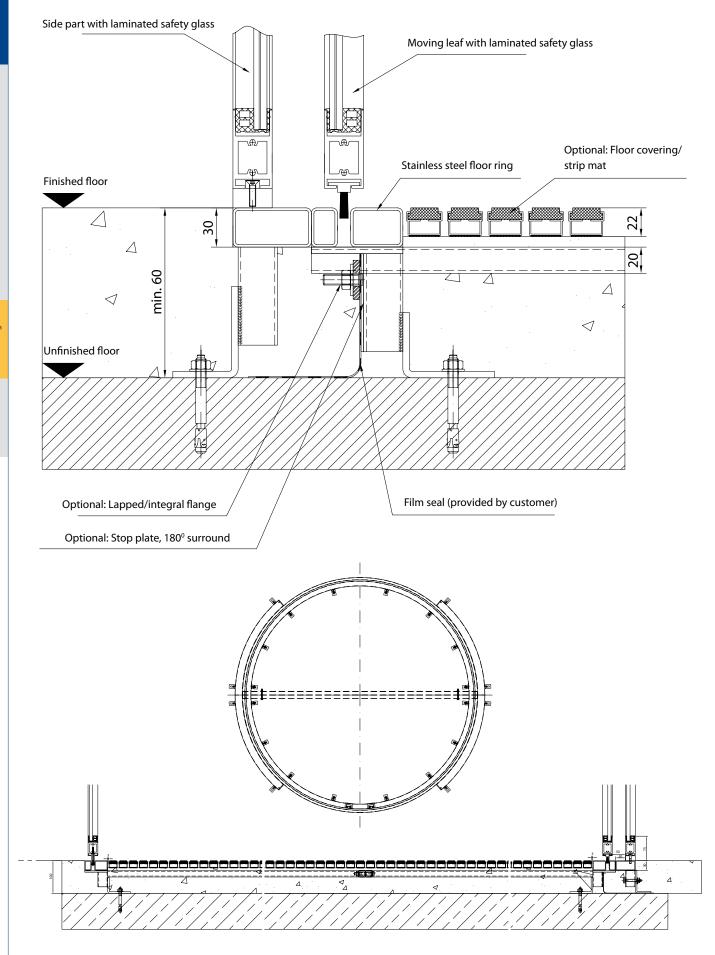
HOT-AIR CURTAINS

In suspended ceiling

Supply lines for hot-air curtains provided by customer

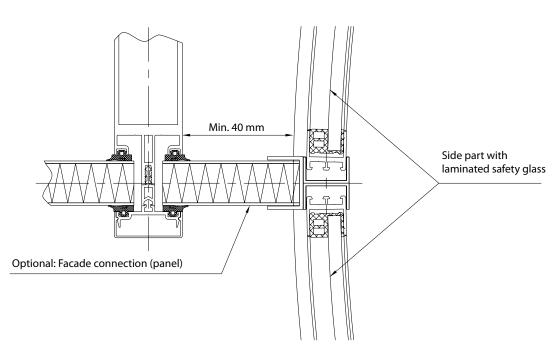


FLOOR RING



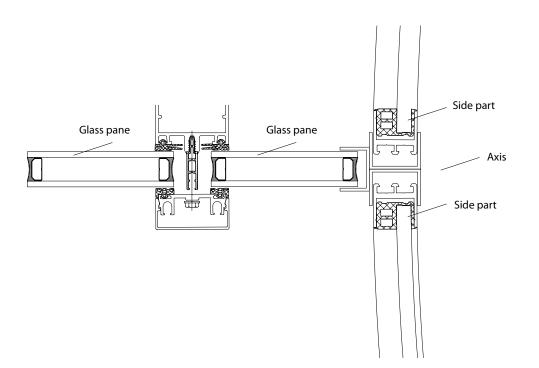
FACADE CONNECTION

With sheet metal panel



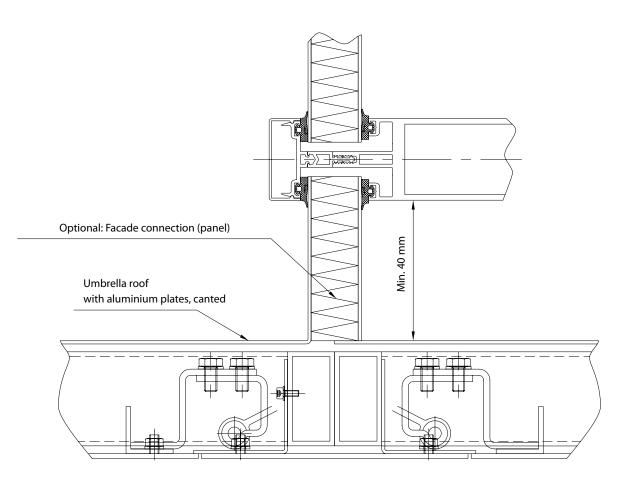
FACADE CONNECTION

With glass pane



FACADE CONNECTION

Top – with umbrella roof



Slimdrive SC/SCR

Slimdrive SL-SC cable diagram

HS	Main switch
NS	Emergency off switch ³⁾
DPS	Display programme switch
SCT	Key-operated programme switch
KI	Internal actuation device ¹⁾
KA	External actuation device ²⁾
ST	Key-operated switch
AÖ	Reduced width opening facility
NV	Emergency lock
SM	Fault detector Fault lamp or fault horn

Notes:

- One or more actuation devices (KI) can be installed. When installing an integrated movement detector, the cables are laid in the drive.
- 2) One or more external actuation devices (KA) can be installed.
- 3) Attach emergency off switches in the right-hand escape direction

Drawing no. 70484-9-0955

Refer to connection diagram 70484-9-0954

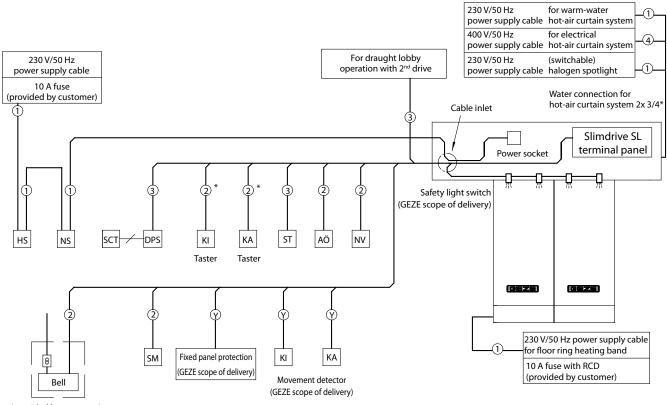
Safety notes:

Cable routing as per VDE 0100

Cable routing, connection work and commissioning may only be carried out by authorised experts.

Wire cross-sections:

- 1 NYM-J 3 x 1.5 mm²
- 2 I-Y(ST)Y 2 x 0.6 mm
- (3) I-Y(ST)Y 2 x 2 x 0.6 mm
- (4) NYM-J 5 x 1.5 mm²
- (Y) 5 x 0.25 mm² (GEZE scope of delivery for GEZE products)
- * For pressure switches



(provided by customer)

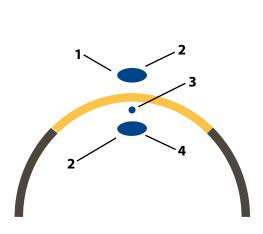
Protecting the transit area with semi-circular and circular sliding doors in accordance with DIN 18650

Standard sensor system package for SC systems

Package for clear passages of up to 1600 mm



1 Optional: GC 304 rain cover for protecting radar detector in outdoor area





3 HZC ultrasound system for protecting the opening width



4 GC 304 ceiling installation kit for integrating radar detector into ceiling

2 GC 304 R and GC 304 SF radar detector (in escape

direction) for controlling

automatic door

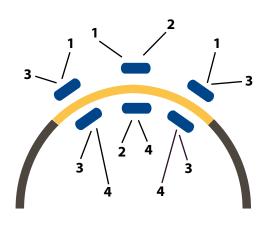
- DIN 18650 safety sensor system package for SC systems
- Package for clear passages from 1601 mm



1 Optional: GC 362 rain cover for protecting combination detector/light curtain in outdoor area



2 GC 362 R and GC 362 SF combination detector (in escape direction) for controlling automatic door



- **3** GC 333 light curtain for protecting the opening width



4 Optional: GC 362 ceiling installation kit for integrating combination detector / light curtain into ceiling

GEZE Slimdrive SC/SC-FR WK2



DIN18650

CE

The new GEZE Slimdrive SC WK2 sliding door system makes life difficult for burglars. The burglar resistant automatic curved sliding door system GEZE Slimdrive SC WK2 and the emergency exit variant SC-FR WK2 are just as stylish and unobtrusive as the tried and tested standard Slimdrive SC variants. With an unrivalled low overall height of only seven centimetres, the drive of the Slimdrive SC WK2 sliding door system is perfect for glass façades with slender profiles in post-rail structures.

The new system provides particular protection against burglary and vandalism. It has been especially developed for building entrances with increased security requirements, such as banks, dispensing chemists, jewellers, petrol stations or interiors with contents requiring particular protection, for example, computer rooms.

Slimdrive SC WK2 and SC-FR WK2 have been tested for component resistance class 2 (WK2) in accordance with prEN 1627 to 1630. This means that they successfully withstand burglary attempts with WK2 class tools such as screwdrivers, pipe wrenches and wedges and the static and dynamic loads. Opportunistic intruders are effectively stopped and security services gain response time.



SGL Carbon, Meitingen

TECHNICAL DATA

Slimdrive	SC WK2 SC-FR WK			
Dimensions of drive unit	70 x 295 mm			
For double-leaf door systems		•		
Max. weight per leaf	120 kg			
Opening width	900 - 3000 mm			
Passage height	000 mm			

• = standard/serial-production

GEZE SLIMDRIVE SC/SC-FR WK2

0

1

2

- 3

_ 5

-6

7 centimetres

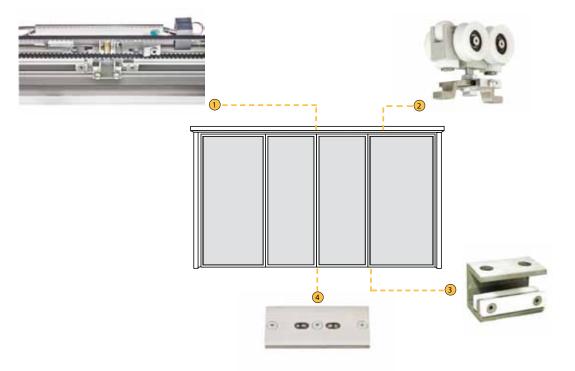
Burglar resistant sliding door system with an overall height of only 7cm and thin-framed hardware system tested to resistance class 2.

Product features

- Certified in accordance with DIN 18650
- Stylish, unobtrusive 7cm look with thin-framed ISO hardware system
- Certified burglary resistance to resistance class 2 (prEN 1627 to 1630)
- Passage height up to 3000 mm available with MONO safety glass for WK2 (laminated safety glass (VSG) 55.4) or ISO safety glass for WK2 (VSG 44.4 + air space (SZR) 8 + single pane toughened safety glass (ESG) 5), according to EN 356
- Reinforced anti-tilt roller carriage version
- Additional mechanical access protection in the area of the top door shoe against manipulation
 of the roller carriages
- Reinforced bi-stable electromechanical rod lock invisibly integrated in the profile system with manual emergency unlocking in the drive and optional potential-free contact for lock monitoring and signalling of the door state to an alarm system or to a building management system
- Continuous floor guide made of stainless steel

With Slimdrive SC-FR WK2 version

• Escape route function with redundant drive and wear-resistant two-motor technology, also available in the RWS, LL and DUO variants.



GEZE Slimdrive SC WK2 – Burglary resistant components

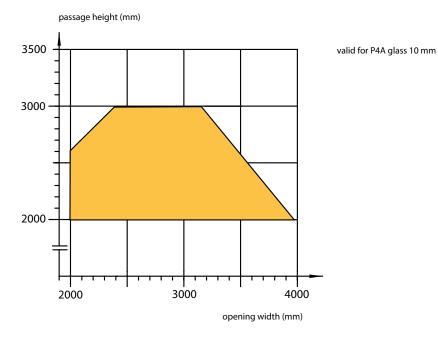
Со	Components				
1	Rod lock				
2	Anti-tilt roller carriage				
3	Continous slide floor guide				
4	Reinforced floor plate				

Slimdrive SC/SCR

26 GEZE SPECIAL DESIGNS

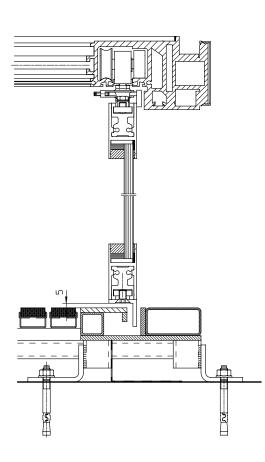
INSTALLATION VARIATIONS Double-leaf SLIMDRIVE SC WK2

- Max. door leaf weight 2 x 120 kg
- Max. ratio of leaf height/leaf width = 1 : 4 calculation based on a leaf weight of 30 kg/m²



VERTICAL SECTION

SLIMDRIVE SC WK2



References



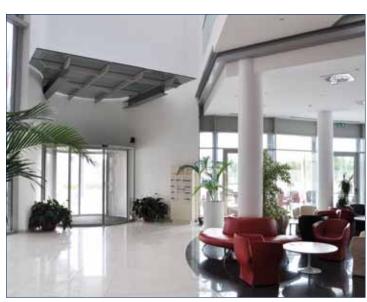
Automatic sliding door GEZE Slimdrive SCR-FR



BHF-Bank Frankfurt, Germany



Hotel Domina Inn, Milan, Italy



Automatic circular sliding door GEZE Slimdrive SCR



GEZE Slimdrive SC automatic semi-circular sliding door



CGG Drenova Cemetery, Rijeka, Croatia

References



 ${\sf GEZE}\ {\sf Slimdrive}\ {\sf SCR}\ {\sf automatic}\ {\sf circular}\ {\sf sliding}\ {\sf door}\ {\sf with}\ {\sf glass}\ {\sf cylinder}\ {\sf fitted}$



The Scotch Whisky Experience, Edinburgh, UK



Hotel Mövenpick, Hamburg, Germany



GEZE Slimdrive SCR automatic circular sliding door



GEZE Slimdrive SC automatic semi-circular sliding door



Dornier Museum, Friedrichshafen, Germany

You will find more product information in the relevant brochures, see ID numbers.

• -	Overhead door closers
01	ID 091593, ID 091594
02	Hold-open systems ID 091593, ID 091594
03	Integrated door closers ID 091609
04	Floor springs ID 091607
05	Sliding door gear systems and linear guides ID 123605, ID 008770, ID 000586
Autor	natic door systems
06	Swing doors ID 144785
07	Sliding, telescopic and folding doors ID 143639
08	Circular and semi-circular sliding doors ID 135772
09	Revolving doors ID 132050
10	Actuation devices and sensors ID 142655
Smok	e and heat extraction and window technology
11	Fanlight opening systems ID 127787
12	Electric opening and locking systems ID 127785, ID 127789
13	Electrical spindle and linear drives ID 127785, ID 127789
14	Electric chain drives ID 127785, ID 127789
15	Smoke and heat extraction systems ID 127785, ID 139075
Safet	y technology
16	Emergency exit systems ID 132408
17	Access control systems ID 132158
18	Panic locks ID 132848
	Electric strikes
19	ID 148666

21	Manual sliding wall systems (MSW) ID 104377
22	Integrated all-glass systems (IGG) ID 104366
23	GEZE Patch fittings mono glass systems ID 122521



Door technology

Automatic door systems

semi-circular and circular sliding door

dedicated division is responsible for the development and construction of individual special designs.

GEZE automatic door systems open up a huge variety of options in door design. The latest, innovative high-performance drive technology, safety, ease of accessibility and first class universal drive design set them apart. GEZE offers complete solutions for individual requirements. A

The functionality, superior performance and reliability of GEZE door closers are impressive. A common design across the range, the ability to use them on all common door leaf widths and weights, and the fact that they can be individually adjusted makes their selection simple. They are continually being improved and enhanced with up-to-date features. For example, the requirements of fire protection and accessibility are fulfilled with a door closer system.

Smoke and heat extraction and window technology

GEZE smoke and heat extraction systems and ventilation technology provide complete systems solutions combining the many requirements of different types of windows. We supply a full range from energy efficient drive systems to natural ventilation and complete solutions for supplying and extracting air, also as certified SHEVs.

Safety technology

GEZE safety technology sets the standards where preventative fire protection, access control and anti-theft security in emergency exits are concerned. For each of these objectives GEZE offers tailored solutions, which combine the individual safety requirements in one intelligent system and close doors and windows in case of danger in a coordinated manner

Building systems

In GEZE's Building Management System GEZE door, window and safety products can be integrated in to the security and control systems of the building. A central control and visualisation system monitors various automation components in the building and offers security through many different networking capabilities.

Glass systems

GEZE glass systems stand for open and transparent interior design. They can either blend discreetly into the architecture of the building or stand out as an accentuated feature. GEZE offers a wide variety of technologies for functional, reliable and aesthetic sliding wall or sliding door systems providing security with lots of design scope.



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