



GEZE SLIDING DOOR SYSTEMS
VERSATILE AND COMFORTABLE



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Overview table for automatic sliding door systems

	ECdrive T2	Slimdrive SL NT	Powerdrive PL	Page
Product features				
Dimensions (height x depth)	100 x 190 mm	70 x 190 mm	150 x 185 mm 200 x 185 mm	
Opening width 1-leaf	700 - 3000 mm	700 - 3000 mm	700 - 3000 mm	
Opening width 2-leaf	900 - 3000 mm	900 - 3000 mm	800 - 3000 mm	
Leaf weight (max.) 1-leaf	120 / 140 kg ³	125 kg.	200 kg ¹	
Leaf weight (max.) 2-leaf	2 x 120 / 140 kg ³	2 x 125 kg	2 x 180 kg ¹ 2 x 200 kg ²	
Opening / closing speed (max.)	0.8 / 0.8 m/s	0.8 / 0.8 m/s	0.8 / 0.8 m/s	
Redundant sliding doors for escape and rescue routes (FR)	•	•	•	6
Special functions escape and rescue routes				
FR with exit only locked (FR-LL)	•	•	•	54
FR in both directions (FR-DUO)	•	•	•	55
FR locked (FR-RWS)	•	•	•	56
CO48 (France)	•	•	•	57
Fitting variants				
ISO glass fine-framed	•	•	•	
MONO glass fine-framed	•	•	•	
GCprofile Therm, thermally separated profile system fine-framed	•			
Toughened safety glass clamping fitting fine-framed	•		•	
All-glass system (GGS)		•		
Integrated all-glass system (IGG)		•		
Page	7	19	24	

• = Yes

¹ = max. 160 kg for FR variant, max. 120 kg for fine-framed leaves

² = increased opening and hold-open times if necessary

³ = 120 kg with single roller carriage (standard), 140 kg with double roller carriage (option) and GCprofile Therm

Standard sliding door systems

For comfort and perfection

Sliding doors are space-saving, elegant and modern. Glass sliding doors are ideal when it comes to making good use of daylight and fulfilling optical criteria. GEZE automatic sliding doors can be used to realise various user scenarios in one building.

- The variants in the **Slimdrive** drive series with an overall height of only seven centimetres blend perfectly into any building's architecture and offer a wide range of possible applications.
- **ECdrive T2** drives are economical and extremely reliable in their functionality.
- **Powerdrive** drives are real power packages and are capable of moving heavy doors conveniently and safely.



Augustinum, Stuttgart, Germany (photo: Dirk Wilhelmy)

Area of application

- Public buildings and authorities
- Office buildings and car dealerships
- Shopping centres and shop fitting
- Airports and railway stations
- Health and care sector, e.g. hospitals, pharmacies
- Hotels and gastronomy
- Banks and education institutes e.g. schools, universities
- Industrial buildings
- Vestibule systems

DIN 18650

The industrial norm DIN 18650 was created to guarantee operators and users of automatic doors optimum safety. GEZE sliding door systems have been type-tested and certified in accordance with DIN 18650.

EN 16005

The new European norm EN 16005 sets out the design requirements and testing methods used to ensure the safe use of automatic doors. The new norm has created a Europe-wide safety standard for automatic doors.

All automatic door systems and safety sensors from GEZE meet the EN 16005 standard and are available.

STANDARD SLIDING DOOR SYSTEMS

Redundant sliding doors for escape and rescue routes (FR)

To guarantee the safety of escape and rescue routes, the control unit is designed in a redundant way in connection with the complete system. This redundancy guarantees that in the event of a power failure or fault, the sliding door will automatically open safely in the modes of operation "Automatic" and "Exit only". In "Night" mode of operation the lock prevents unauthorised opening of the door. There is no escape and rescue route function in this mode of operation.



Kolbenschmidt Pierburg, Neckarsulm, Germany (photo: Nikolaus Grünwald)

Design possibilities with the sliding door system

- | | |
|--------------------------------------|-----------------------------|
| 1 = Sliding door drive | 7 = Plastic elbow switch |
| 2 = Moving leaf | 8 = LED sensor switch glass |
| 3 = Side panel | 9 = Proximity switch |
| 4 = Combined detector | 10 = Elbow switch |
| 5 = Active infrared light curtain | 11 = LED sensor foot switch |
| 6 = Programme switch with key switch | 12 = Light barrier |

GEZE ECdrive T2

Automatic linear sliding door system for doors up to 140 kg leaf weight

The ECdrive T2 linear sliding door system is suitable for a large number of motion cycles and is uncompromisingly reliable. High-quality materials guarantee high performance at an excellent price-performance ratio. With a new cover height of 100 mm, this door system meets the highest design requirements. The optionally available double roller carriage can move leaf weights up to 140 kg in conjunction with the GCprofile Therm profile system. The pre-drilled track and pre-machined elongated holes reduce the installation effort.



Technical data

Product features	ECdrive T2	ECdrive T2-FR
For 1-leaf door systems	•	•
For 2-leaf door systems	•	•
Height	100 mm	
Depth	190 mm	
Leaf weight (max.) 1-leaf	120 / 140 kg*	
Leaf weight (max.) 1-leaf with GCprofile Therm	140 kg*	
Leaf weight (max.) 2-leaf	120 / 140 kg*	
Leaf weight (max.) 2-leaf with GCprofile Therm	140 kg*	
Opening width 1-leaf	700 to 3000 mm	
Opening width 1-leaf with GCprofile Therm	700 to 1500 mm	
Opening width 2-leaf	900 to 3000 mm	
Opening width 2-leaf with GCprofile Therm	900 to 3000 mm	
Temperature range	-15 to 50 °C	
IP rating	IP20	
Disconnection from mains	Main switch in the drive	
Opening speed (max.)	0.8 m/s	
Closing speed (max.)	0.8 m/s	
Hold-open time	0 to 60 s	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	•	•
Automatic reversal when an obstacle is detected	•	•
Pharmacy opening	•	•
Interlocking door system function	•	-
Vestibule function	•	-
Automatic opening in the event of a power failure	adjustable	standard
Automatic closing in the event of a power failure	adjustable	not available
Function in the event of a power failure	adjustable for 30 min / 30 cycles	opening
Automatic opening in the event of a fault	not available	standard
Approvals	DIN 18650 EN 16005 DIN EN ISO 13849: Performance Level D	DIN 18650 EN 16005 DIN EN ISO 13849: Performance Level D AutSchR

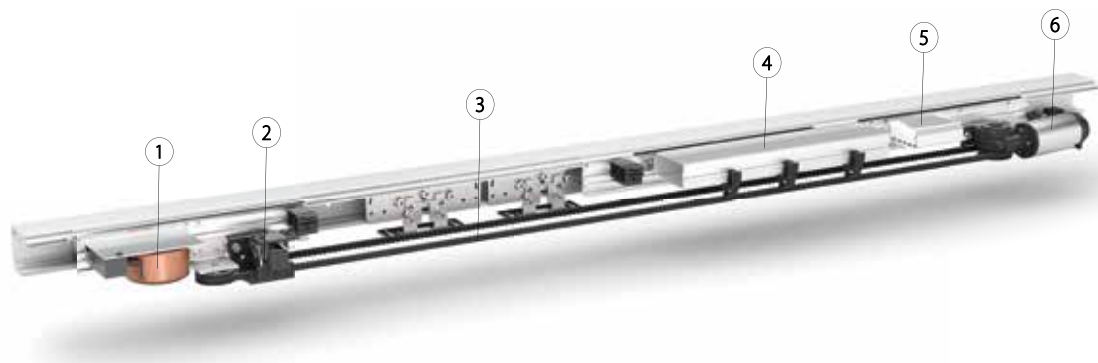
• = YES

- = NOT AVAILABLE

* = 120 KG WITH SINGLE ROLLER CARRIAGE (STANDARD), 140 KG WITH DOUBLE ROLLER CARRIAGE (OPTION) AND GCPROFILE THERM

GEZE ECdrive T2

Drive components



- 1 = Transformer
- 2 = Lock
- 3 = Roller carriage
- 4 = Control unit
- 5 = Rechargeable battery
- 6 = Motor

Technical data	ECdrive T2	ECdrive T2-FR
Transformer	Ring core with protection and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Capacity rating	140 W	
Lock	Toothed belt locking, electro-magnetic, bi-stable	
Roller carriage		
Door leaf adjustment vertical	10 mm	
Door leaf adjustment horizontal	15 mm	
Tiling protection	Standard	
Self-cleaning	•	•
Control unit	DCU1-NT	DCU1-2M-NT
With fault memory	•	•
With memory for statistical data	•	•
Software update possible	•	•
Bus interface optional	•	•
Connection for fire alarm system	•	•
Power supply for peripherals	•	•
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Rechargeable battery	NiCd, 24 V, 700 mAh	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

• = YES

Fitting variants

Door fittings	ECdrive T2
ISO glass fine-framed	•
MONO glass fine-framed	•
GCprofile Therm, thermally separated profile system fine-framed	•
Toughened safety glass clamping profile	•
All-glass system (GGS)	-
Integrated all-glass system (IGG)	-
Wooden leaf (provided by customer)	•

• = YES
- = NOT AVAILABLE

Calculation of the drive length AL in mm*

	ECdrive T2		ECdrive T2-FR**	
	Opening width (ÖW)	Drive length	Opening width (ÖW)	Drive length
2-leaf	900 - 1000	ÖW + 1100	900 - 1070	ÖW + 1170
	1000 - 3000	2 x ÖW + 100	1070 - 3000	2 x ÖW + 100
1-leaf left hand slide to open	700 - 3000	2 x ÖW + 75	700 - 800	ÖW + 880
			800 - 3000	2 x ÖW + 75
1-leaf right hand slide to open	700 - 3000	2 x ÖW + 75	700 - 800	ÖW + 880
			800 - 3000	2 x ÖW + 75

* Minimum overall length of the complete system with ISO glass profile system

** For FR variants (FR-RWS, FR-LL) request drawing!

Note:

Opening widths of escape route sliding doors < 1000 mm are only permitted in exceptional cases.

A continuous floor guide is recommended for external systems from an opening width of 2000 mm.

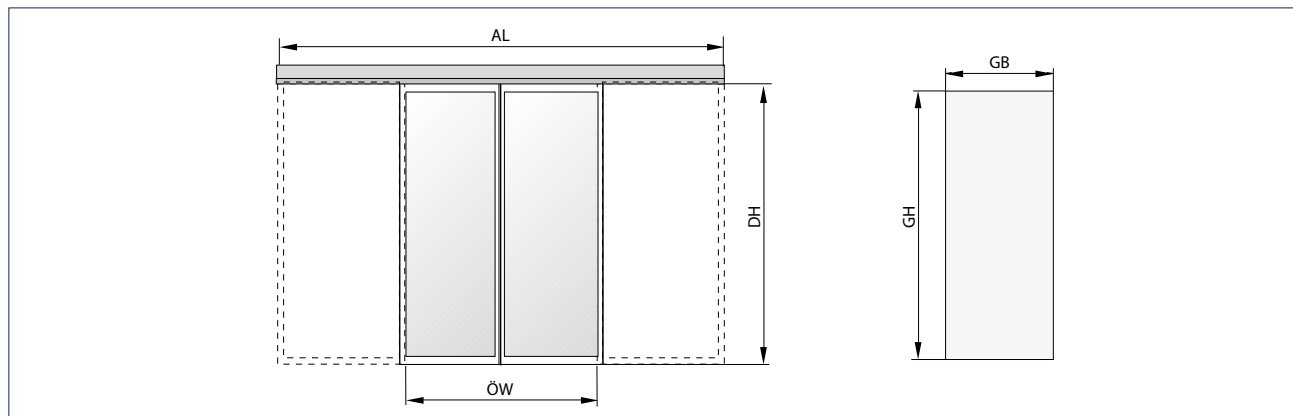
The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimensions in mm

		ISO glass with aluminium secondary closing edge	ISO glass with rubber secondary closing edge	Toughened safety glass
Leaf width	1-leaf	ÖW + 40	ÖW + 35	ÖW + 35
	2-leaf	ÖW / 2 + 40	ÖW / 2 + 35	ÖW / 2 + 35
Leaf height	1-leaf / 2-leaf	FH = DH		
Glass width	1-leaf / 2-leaf	FB - 41	FB - 36	FB - 26
Glass height		FH - 90	FH - 90	FH - 85
Glass thickness		ISO = 22, Mono = 10		

Note:

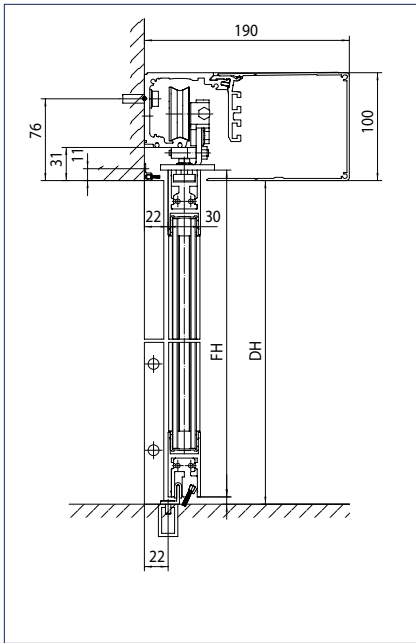
max. leaf ratio width to height 1:4



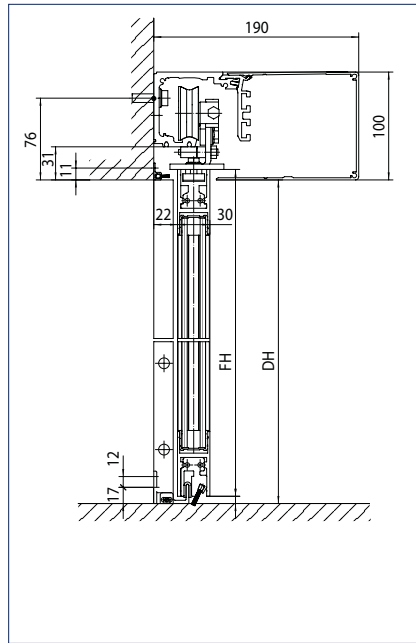
AL = Drive length
 DH = Passage height
 GB = Glass width
 GH = Glass height
 ÖW = Opening width

with ISO/MONO glass fitting – without side panel

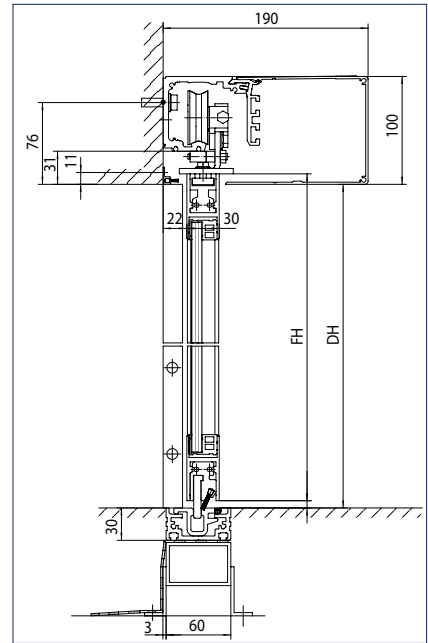
Drawing no. 70518-ep01 / 70518-ep02



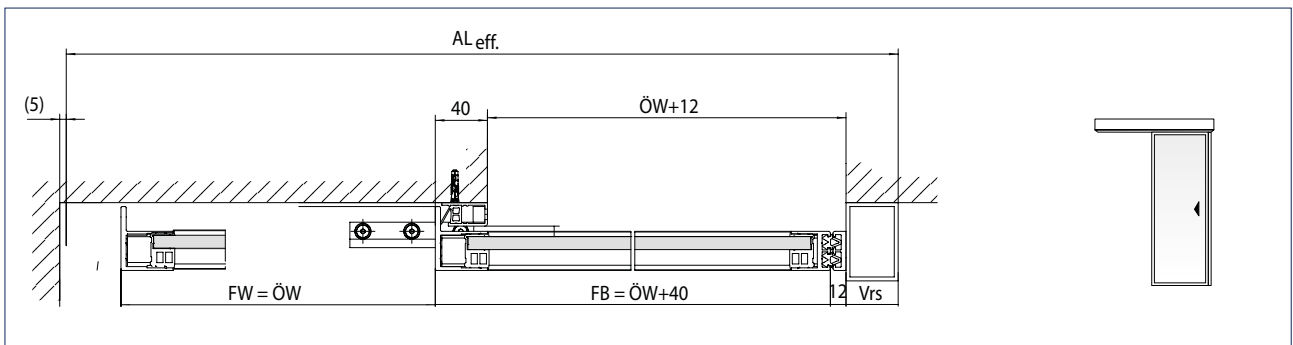
Wall installation, angled floor guide, ISO glass



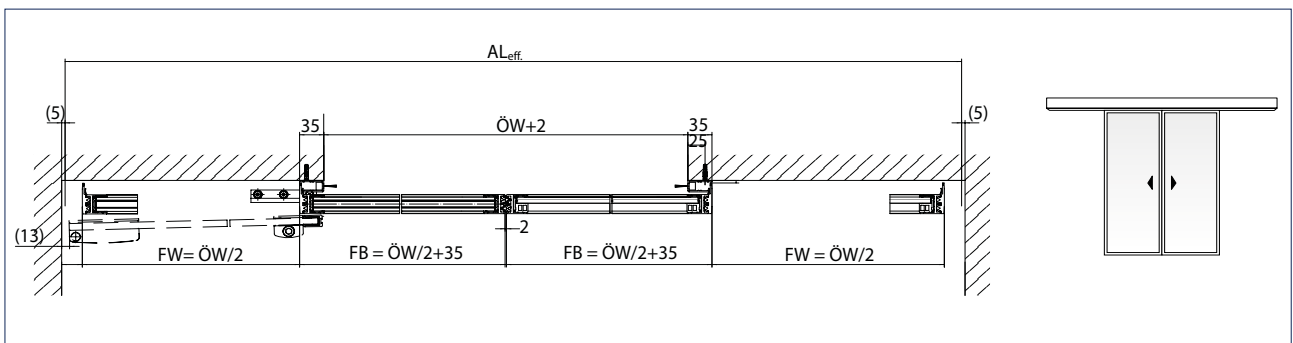
Wall installation, angled floor guide, ISO glass



Wall installation, continuous floor guide, MONO glass



1-leaf, wall installation, aluminium secondary closing edge, angled floor guide, left hand slide to open, MONO glass

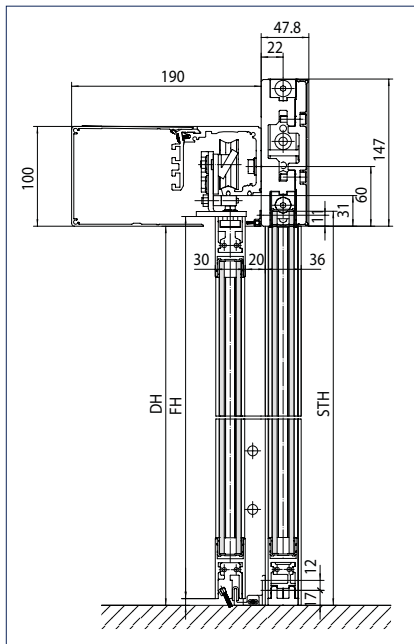


2-leaf, wall installation, rubber secondary closing edge, angled / adjustable floor guide, with protective leaf, ISO and MONO glass

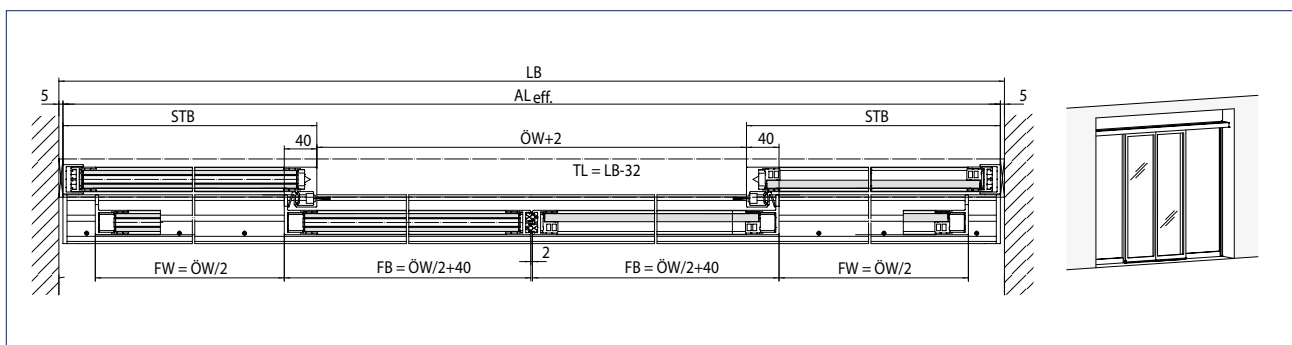
- DH = Passage height
- FH = Leaf height
- FW = Travel path
- FB = Leaf width
- ÖW = Opening width
- Vrs = Drive extension right
- ALeff. = Effective drive length

with ISO/MONO glass fitting - with side panel - girder section installation

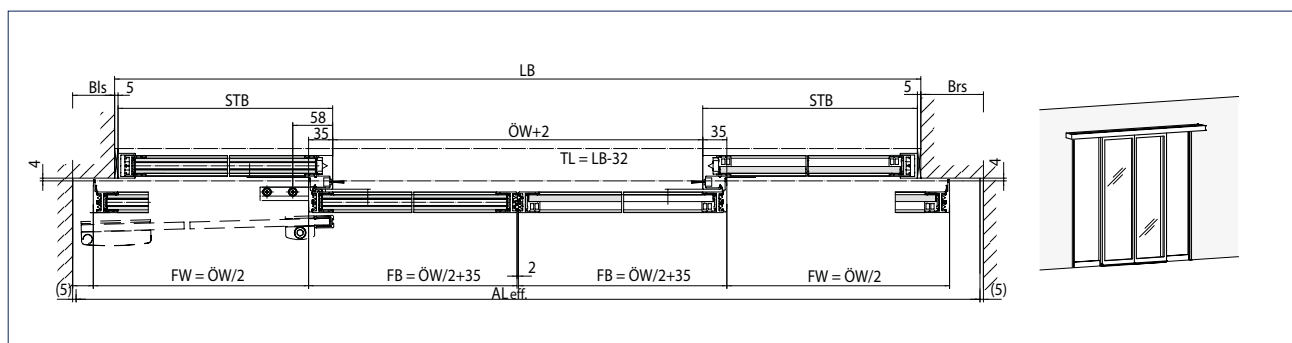
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Girder section installation (thin), adjustable floor guide, ISO glass



Girder section installation, aluminium secondary closing edge, continuous floor guide, ISO and MONO glass

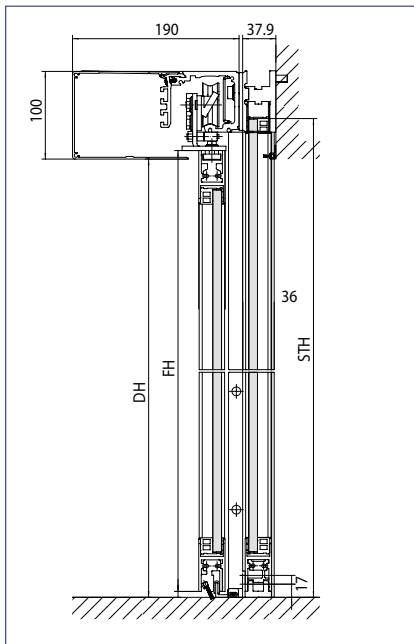


Girder section installation, rubber secondary closing edge, angled / adjustable floor guide, with protective leaf, ISO and MONO glass

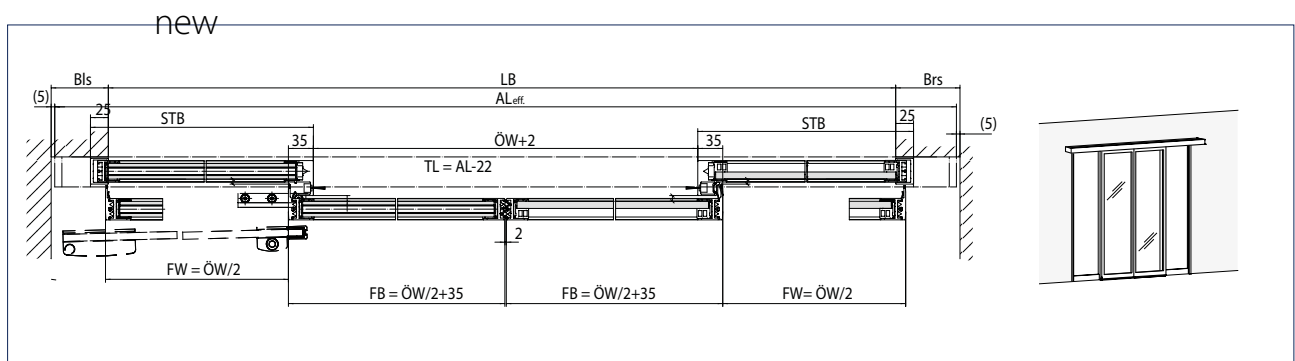
- LB = Clear construction components
- STB = Side panel width
- STH = Side panel height
- FH = Leaf height
- FB = Leaf width
- FW = Travel path
- ÖW = Opening width
- DH = Passage height
- TL = Girder section length
- Bls = Fastening left
- Brs = Fastening right
- AL eff. = Effective drive length

with ISO/MONO glass fitting - with side panel - lintel mounting

Drawing no. 70518-ep14



Lintel mounting, adjustable floor guide

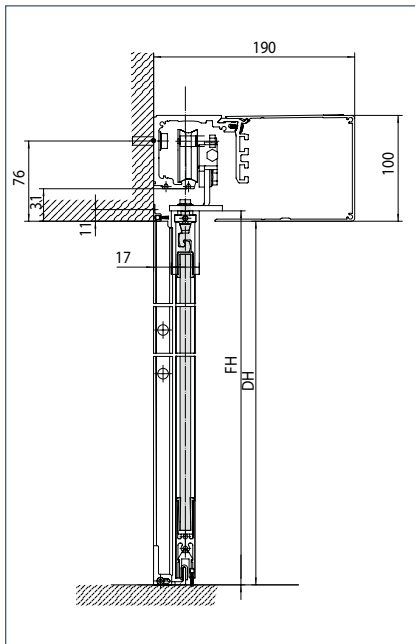


2-leaf, lintel mounting, rubber secondary closing edge, angled floor guide with protective leaf

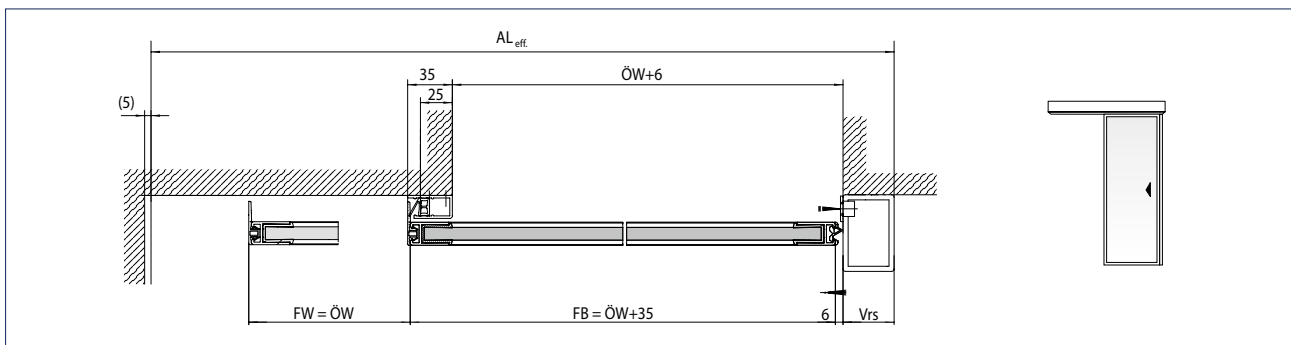
- LB = Clear construction components
- STB = Side panel width
- STH = Side panel height
- FH = Leaf height
- FB = Leaf width
- FW = Travel path
- ÖW = Opening width
- DH = Passage height
- Bls = Fastening left
- Brs = Fastening right
- AL_{eff} = Effective drive length

with toughened safety glass clamping fitting – without side panel

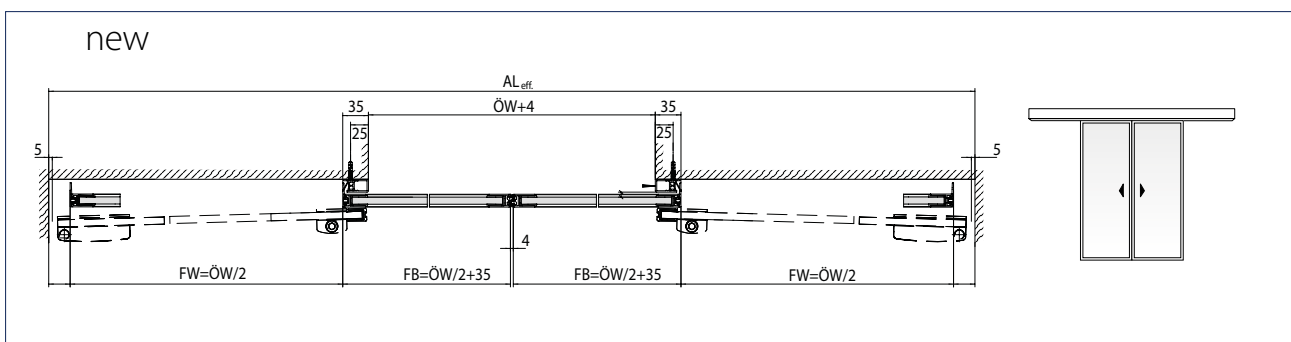
Drawing nos. 70518-ep03 / 70518-ep04



Wall installation, adjustable floor guide



1-leaf, wall installation, plastic secondary closing edge, adjustable angled floor guide, left hand slide to open

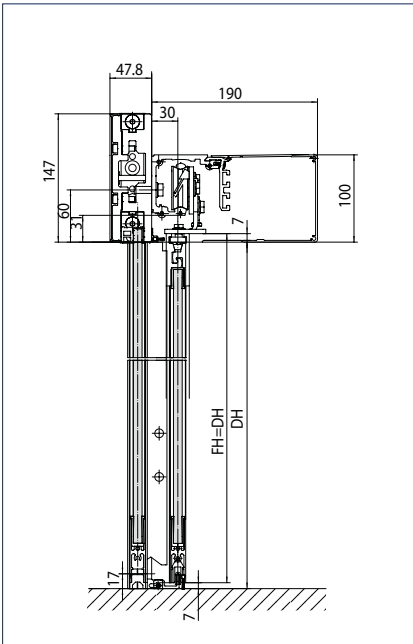


2-leaf, wall installation, rubber secondary closing edge, adjustable floor guide with protective leaf

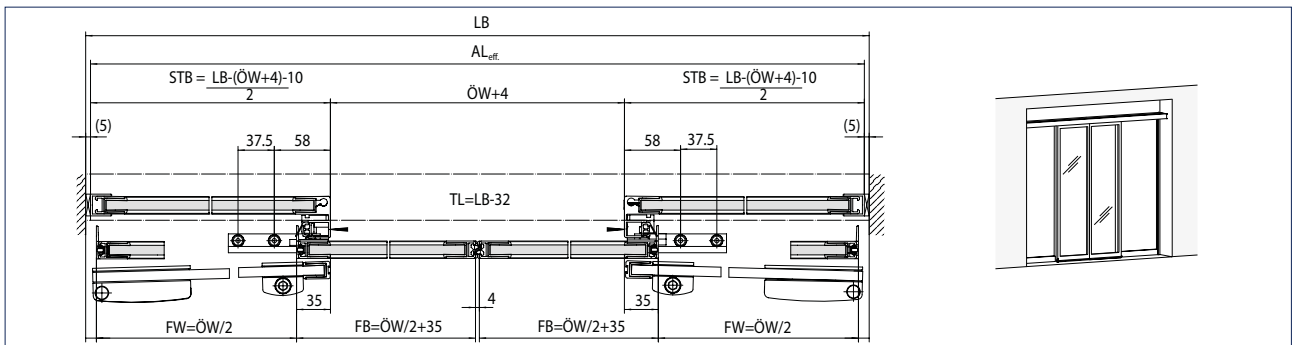
- FW = Travel path
- FB = Leaf width
- ÖW = Opening width
- Vrs = Drive extension right
- DH = Passage height
- FH = Leaf height
- ALeff = Effective drive length

with toughened safety glass clamping fitting – with side panel

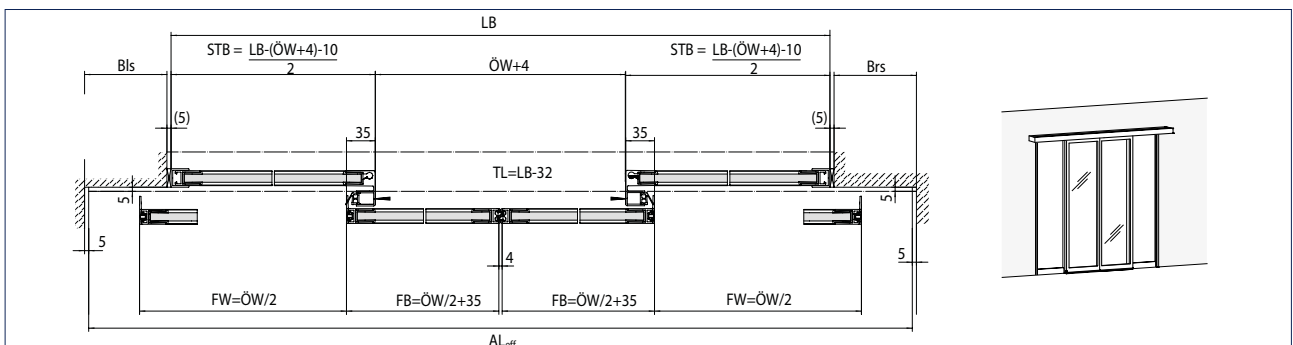
Drawing no. 70504-ep12



Girder section installation (thin), adjustable floor guide



2-leaf, girder section installation, angled floor guide, protective leaf

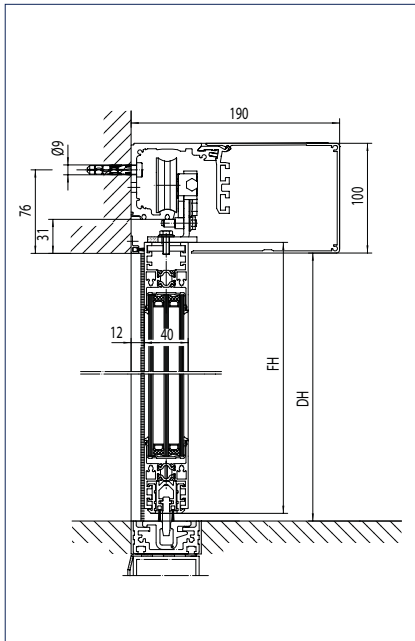


2-leaf, girder section installation, adjustable floor guide

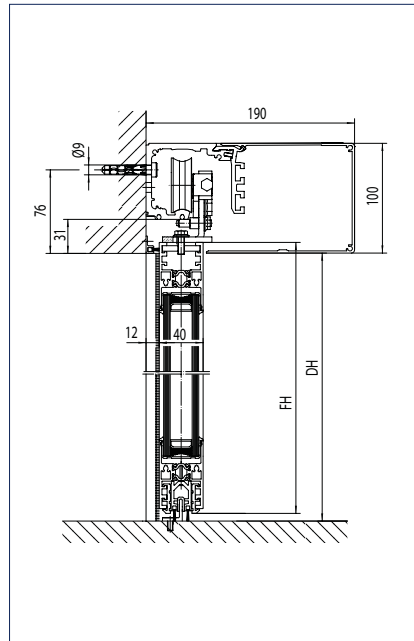
- LB = Clear construction components
- STB = Side panel width
- FH = Leaf height
- FB = Leaf width
- FW = Travel path
- ÖW = Opening width
- DH = Passage height
- TL = Girder section length
- BlS = Fastening left
- Brs = Fastening right
- AL_{eff.} = Effective drive length

with GCprofile Therm, thermally separated profile system fine-framed – without side panel

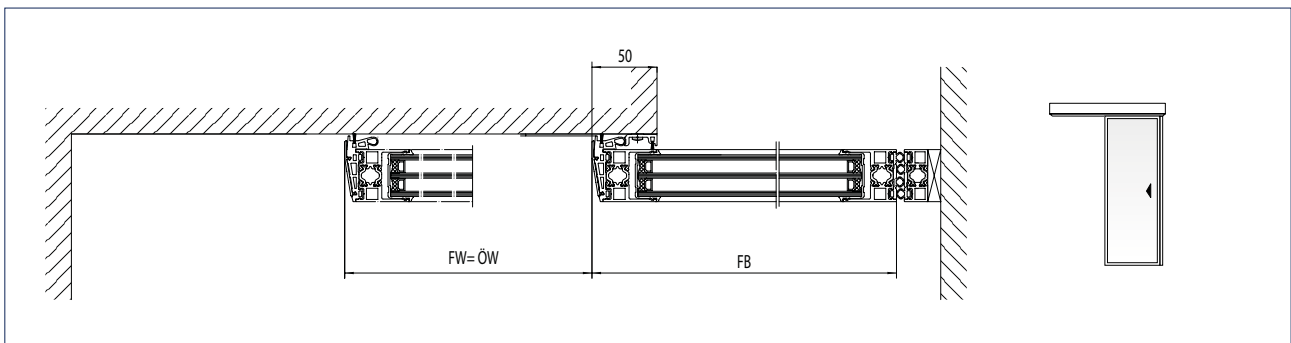
Drawing nos. 70518-ep100 / 70518-ep110



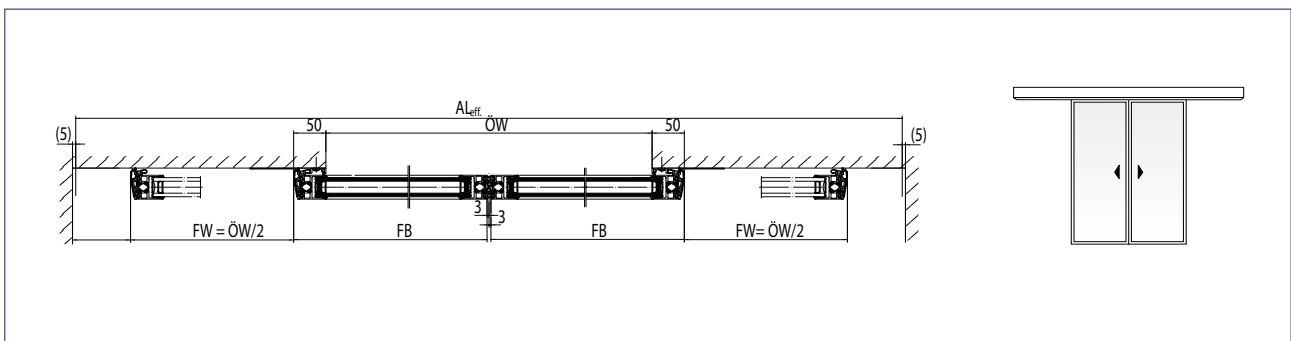
Wall installation, continuous floor guide



Wall installation, angled floor guide



1-leaf, wall installation

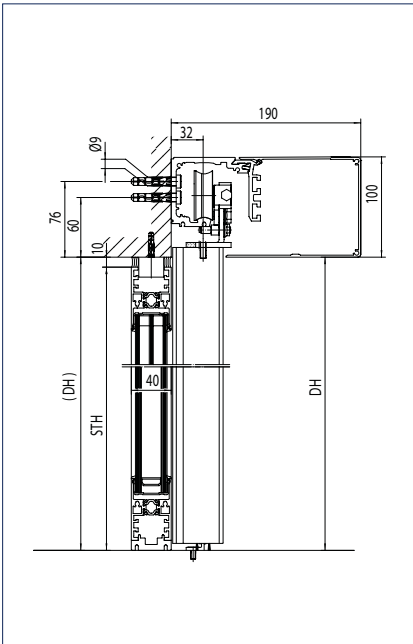


2-leaf, wall installation

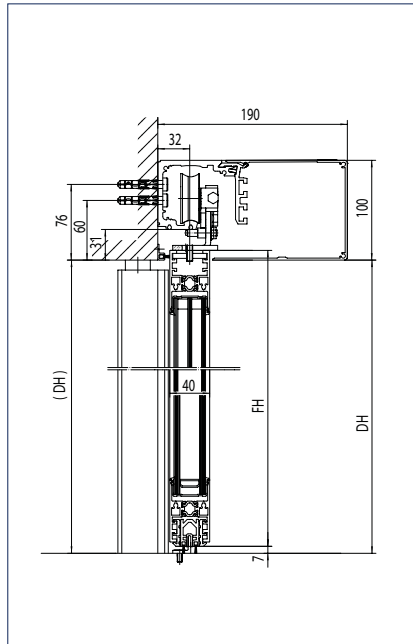
- FH = Leaf height
- FB = Leaf width
- FW = Travel path
- ÖW = Opening width
- DH = Passage height
- ALeff. = Effective drive length

with GCprofile Therm, thermally separated profile system fine-framed – with side panel below lintel

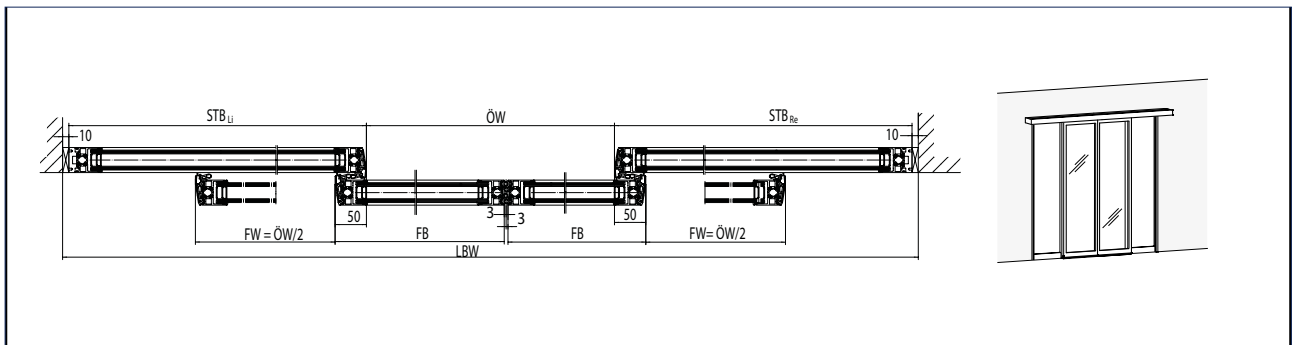
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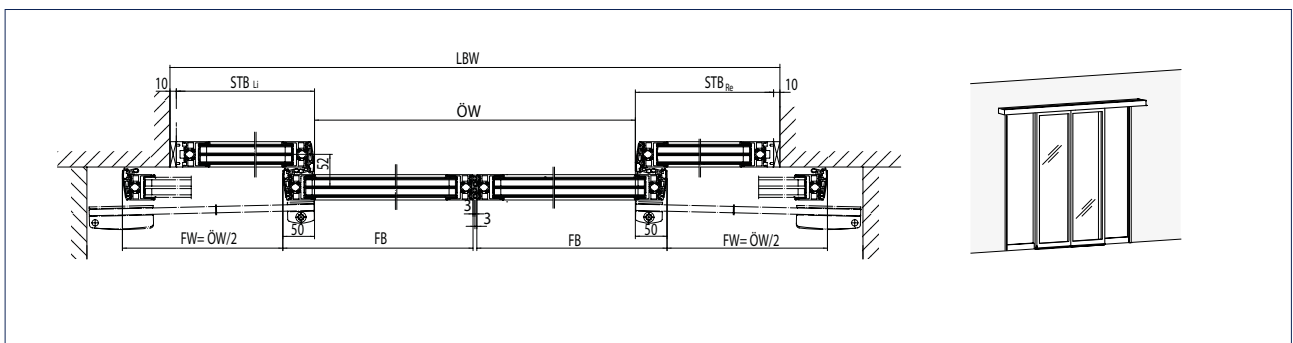
Vertical section side panel



Vertical section moving leaf



Drive length corresponds to clear opening

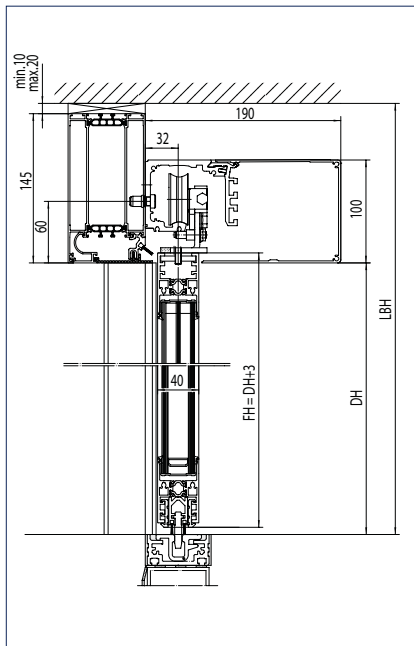


Drive length larger than clear opening

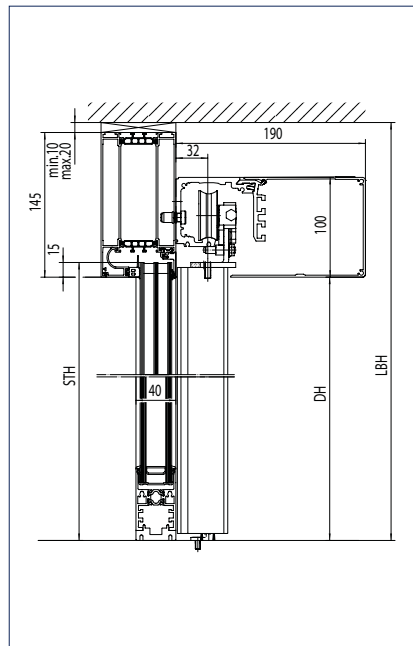
- LBW = Clear construction width
- STB Li = Side panel width left
- STB Re = Side panel width right
- FW = Travel path
- FB = Leaf width
- ÖW = Opening width
- DH = Passage height

with ISO/MONO glass fitting - with side panel – intermediate wall installation

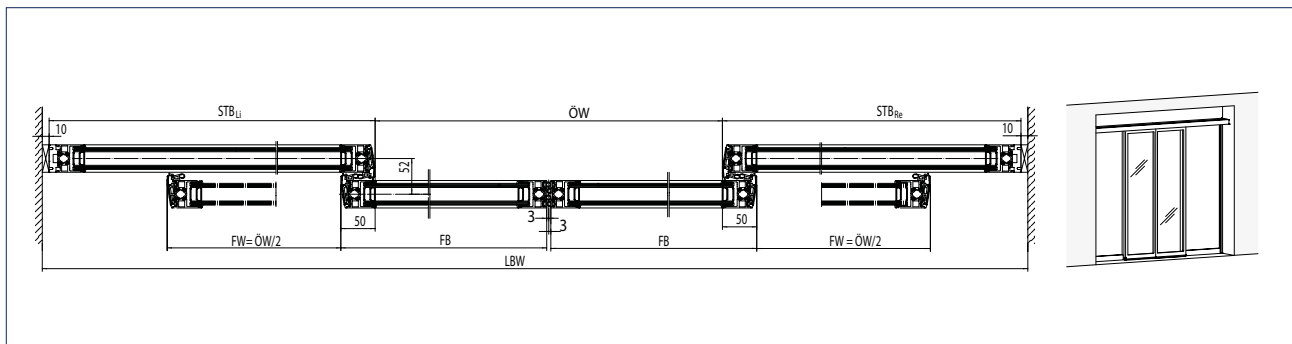
Drawing no. 70518-ep101



Vertical section moving leaf, continuous floor guide



Vertical section side panel, angled floor guide

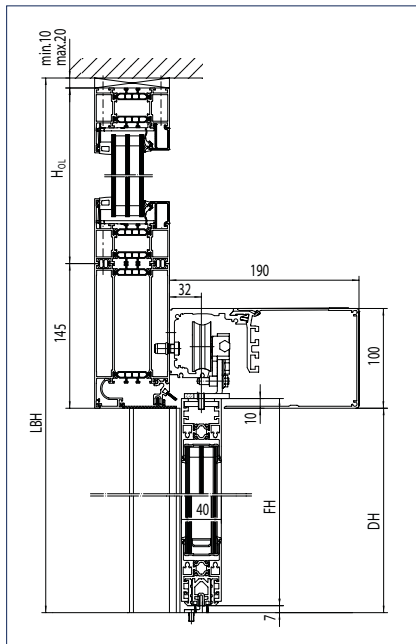


2-leaf, horizontal section

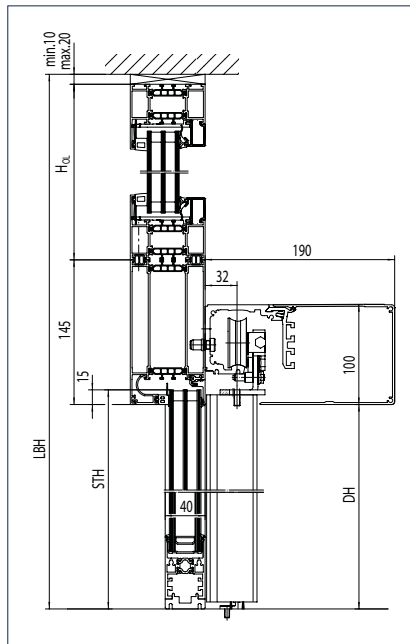
- LBW = Clear construction width
- LBH = Clear construction height
- STH = Side panel height
- STB_{Li} = Side panel width left
- STB_{Re} = Side panel width right
- FW = Travel path
- FB = Leaf width
- FH = Leaf height
- ÖW = Opening width
- DH = Passage height

with GCprofile Therm thermally separated profile system – with side panel and fanlight

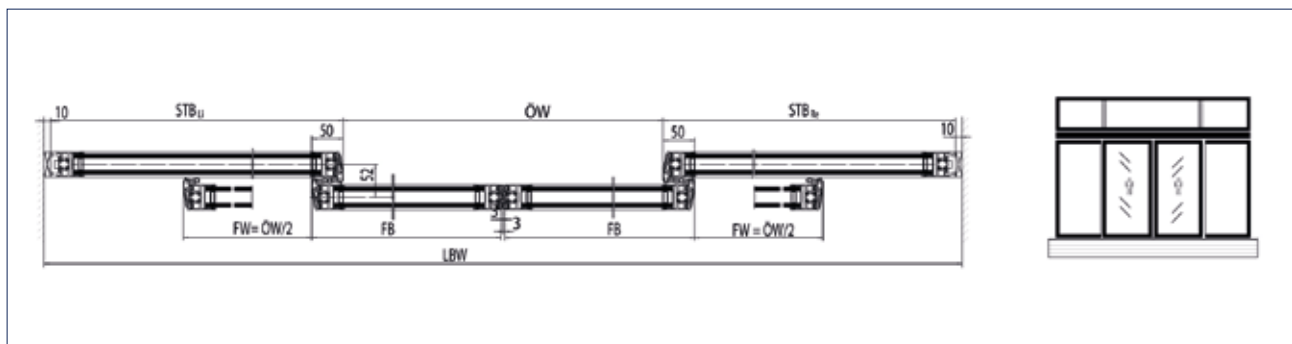
Drawing no. 70518-ep102



Vertical section moving leaf



Vertical section side panel



Horizontal section

- HOL = Height fanlight
- LBW = Clear construction width
- LBH = Clear construction height
- STH = Side panel height
- STB Li = Side panel width left
- STB Re = Side panel width right
- FW = Travel path
- FB = Leaf width
- FH = Leaf height
- ÖW = Opening width
- DH = Passage height

GEZE Slimdrive SL NT

Drive system for automatic linear sliding doors using the latest technology

Façades with slim post-rail constructions seem even lighter and more inviting the more discreetly and easily they blend in with the building architecture. The new GEZE Slimdrive SL NT automatic sliding door system is ideal – particularly in glass façades where large door leaves have to be moved and all components have to look slim and delicate.

With its low drive height of only 7 cm, Slimdrive SL NT can be integrated almost invisibly in the façade and moves leaf weights of up to 125 kg. The new track makes mounting directly on the wall, façade or on girder sections easier. Self-cleaning roller carriages fitted as standard increase smooth running and service life. Additional supporting rollers improve movement characteristics when narrow leaves are used.

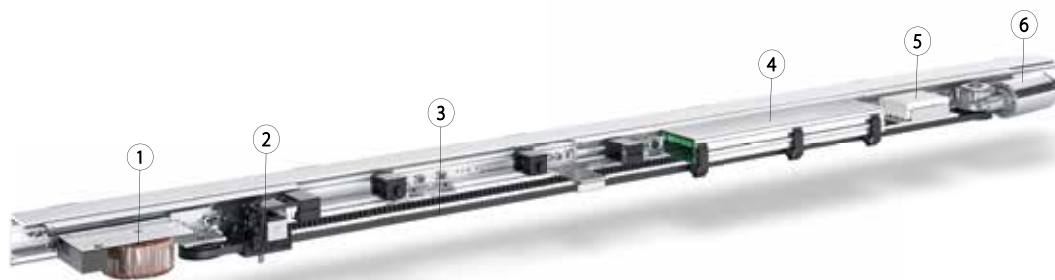


Technical data

Product features	SL NT	SL NT-FR
For 1-leaf door systems	•	•
For 2-leaf door systems	•	•
Height	70 mm	
Depth	190 mm	
Leaf weight (max.) 1-leaf	125 kg.	
Leaf weight (max.) 2-leaf	125 kg.	
Opening width 1-leaf	700 – 3000 mm	
Opening width 2-leaf	900 – 3000 mm	
Temperature range	-15 to 50 °C	
IP rating	IP20	
Disconnection from mains	Main switch in the drive	
Opening speed (max.)	0.8 m/s	
Closing speed (max.)	0.8 m/s	
Hold-open time	0 to 60 s	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	•	•
Automatic reversal when an obstacle is detected	•	•
Pharmacy opening	•	•
Interlocking door system function	•	-
Vestibule function	•	-
Automatic opening in the event of a power failure	adjustable	Standard
Automatic closing in the event of a power failure	adjustable	not available
Function in the event of a power failure	adjustable for 30 min / 30 cycles	Opening
Automatic opening in the event of a fault	not available	Standard
Approvals	DIN 18650, EN 16005, DIN EN ISO 13849: Performance Level D	DIN 18650, EN 16005, DIN EN ISO 13849: Performance Level D, AutSchR

• = YES
 - = NOT AVAILABLE

Drive components



- 1 = Transformer
- 2 = Lock
- 3 = Roller carriage
- 4 = Control unit
- 5 = Rechargeable battery
- 6 = Motor

Technical data	SL NT	SL NT-FR
Transformer	Ring core with protection and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Power rating	140 W	
Lock	Toothed belt locking, electro-magnetic, bi-stable	
Roller carriage		
Door leaf adjustment vertical	10 mm	
Door leaf adjustment horizontal	6 mm	
Tiling protection	Standard	
Self-cleaning	•	•
Control unit	DCU1-NT	DCU1-2M-NT
with fault memory	•	•
with memory for statistical data	•	•
Software update possible	•	•
Bus interface optional	•	•
Connection for fire alarm system	•	•
Power supply for peripherals	•	•
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Rechargeable battery	NiCd, 24 V, 700 mAh	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

• = YES

Fitting variants

Door fittings	SL NT
ISO glass fine-framed	•
MONO glass fine-framed	•
GCprofile Therm, thermally separated profile system fine-framed	-
Toughened safety glass clamping profile	-
All-glass system (GGs)	•
Integrated all-glass system (IGG)	•
Wooden leaf (provided by customer)	•

• = YES
- = NOT AVAILABLE

Calculation of the drive length AL in mm*

Slimdrive SL NT		Slimdrive SL NT-FR**		
	Opening width (ÖW)	Drive length	Opening width (ÖW)	Drive length
2-leaf	900 - 1000	$\ddot{O}W + 1100$	900 - 1070	$\ddot{O}W + 1170$
	1000 - 3000	$2 \times \ddot{O}W + 100$	1070 - 3000	$2 \times \ddot{O}W + 100$
1-leaf left hand slide to open	700 - 3000	$2 \times \ddot{O}W + 60$	700 - 800	$\ddot{O}W + 860$
			800 - 3000	$2 \times \ddot{O}W + 60$
1-leaf right hand slide to open	700 - 3000	$2 \times \ddot{O}W + 60$	700 - 800	$\ddot{O}W + 860$
			800 - 3000	$2 \times \ddot{O}W + 60$

When using Lock A, the drive length increases by 100 mm.

When using Lock M at 1-leaf doors, the drive length increases by 100 mm. When using Lock M at 2-leaf doors, the drive length increases by 100 mm only if an optional lock notification has been installed.

* Minimum overall length of the complete system with ISO glass profile system

** For FR variants (FR-RWS, FR-LL) request drawing!

Note:

Opening widths of escape route sliding doors < 1000 mm are only permitted in exceptional cases.

A continuous floor guide is recommended for external systems from an opening width of 2000 mm.

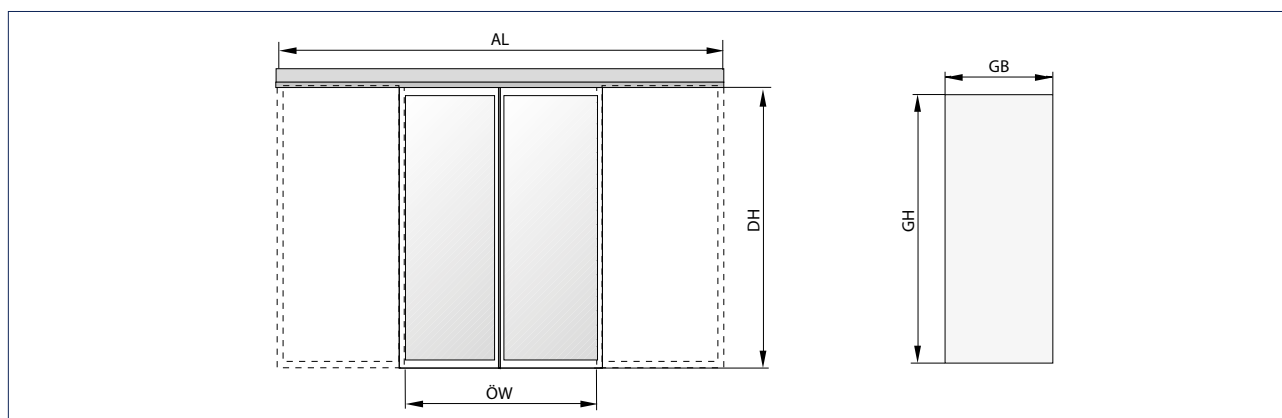
The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimensions in mm (ISO glass profile system)

		ISO glass
Leaf width	1-leaf	$\ddot{O}W + 35$
	2-leaf	$\ddot{O}W / 2 + 35$
Leaf height	1-leaf / 2-leaf	$FH = DH - 2$
Glass width	1-leaf	$\ddot{O}W$
	2-leaf	$\ddot{O}W / 2$
Glass height	1-leaf / 2-leaf	$FH - 90$
Glass thickness		22

Note:

Max. leaf ratio width to height 1:4

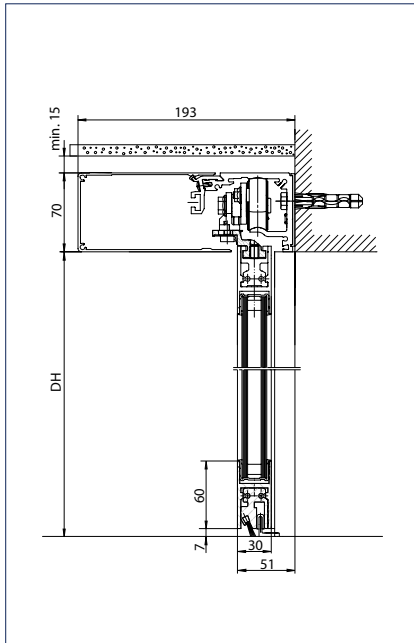


- AL = Drive length
- DH = Passage height
- GB = Glass width
- GH = Glass height
- ÖW = Opening width

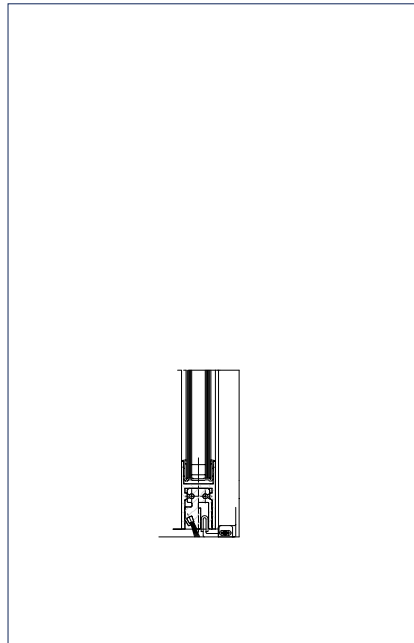
GEZE SLIMDRIVE SL NT

with ISO/MONO glass fitting – without side panel

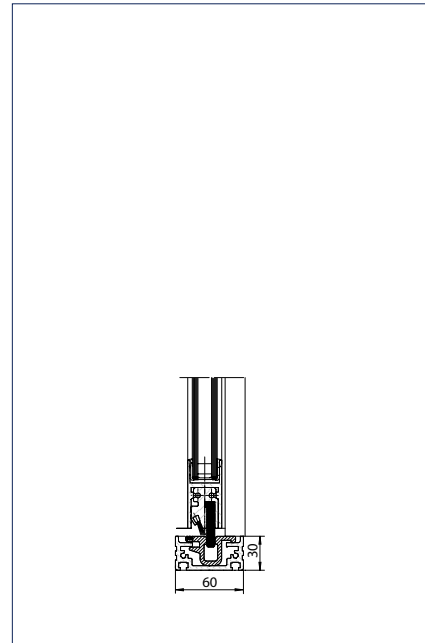
Drawing no. 70511-ep01



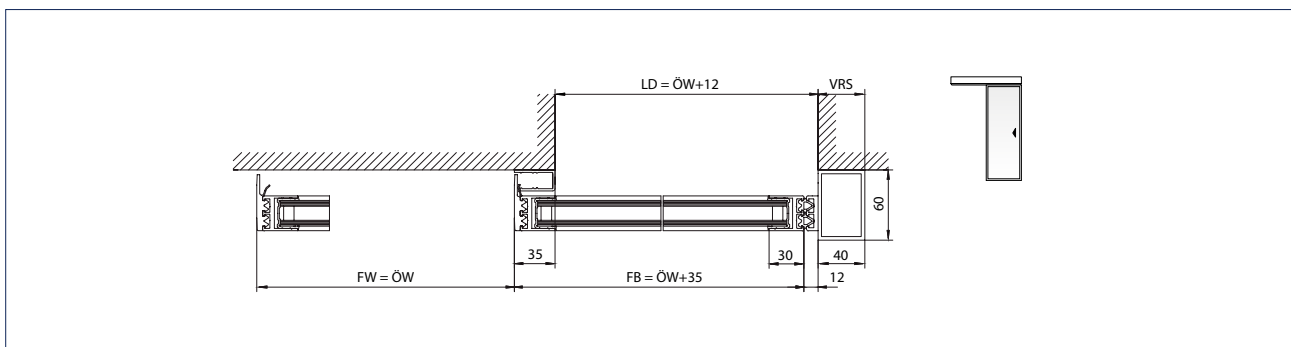
Floor guide: For floor mounting



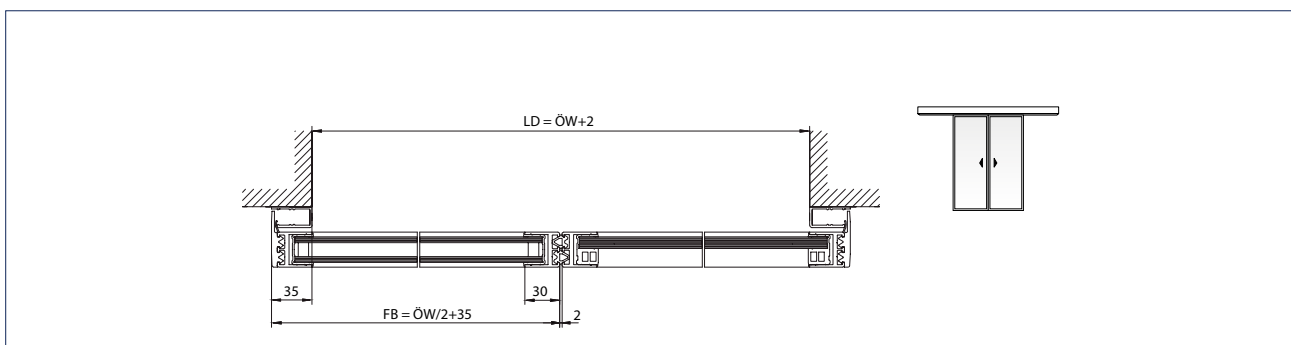
Floor guide: Adjustable for wall installation



Floor guide: Continuous



1-leaf door system

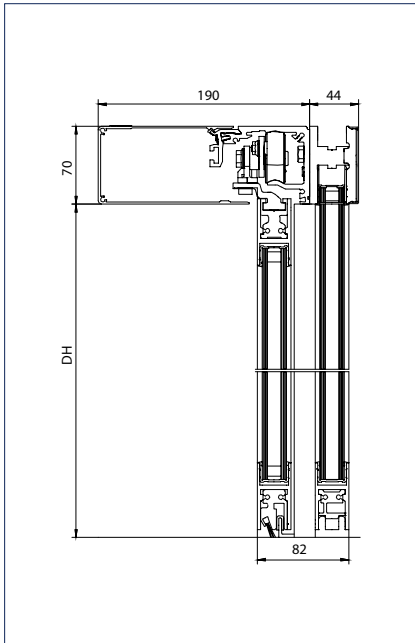


2-leaf door system

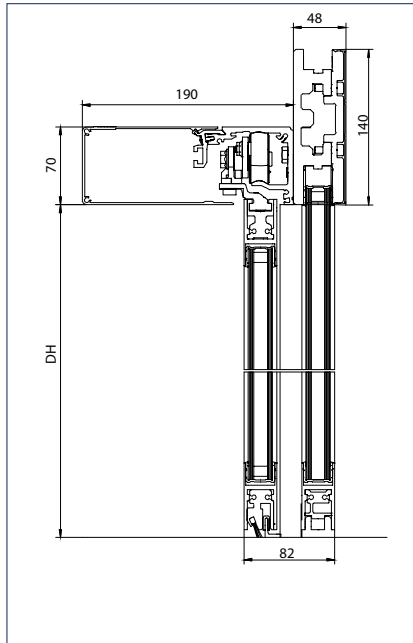
LD = Clear passage height
 FW = Travel path
 FB = Leaf width
 ÖW = Opening width
 VRS = Drive extension right
 DH = Passage height

with ISO/MONO glass fitting – with side panel

Drawing nos. 70511-ep02 + 70511-ep04

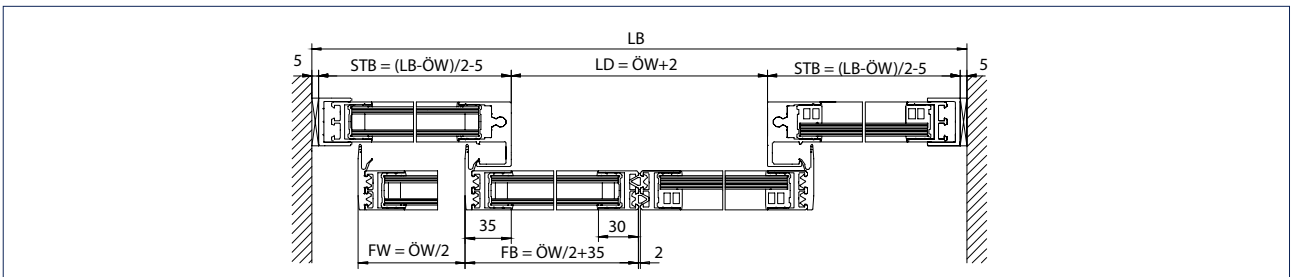


Low girder section

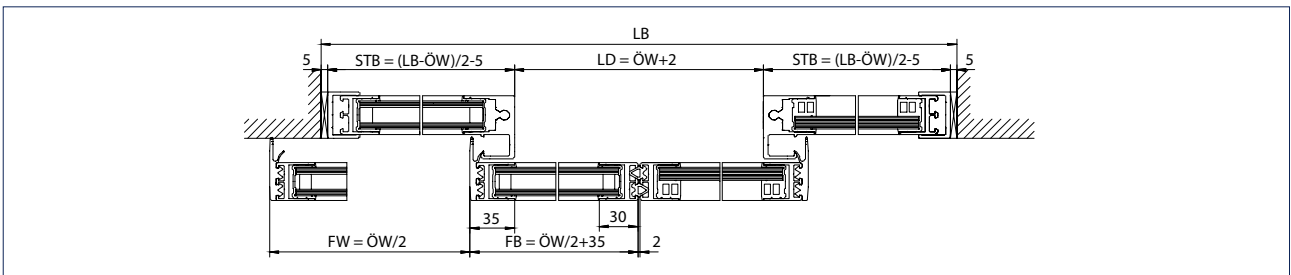


High girder section

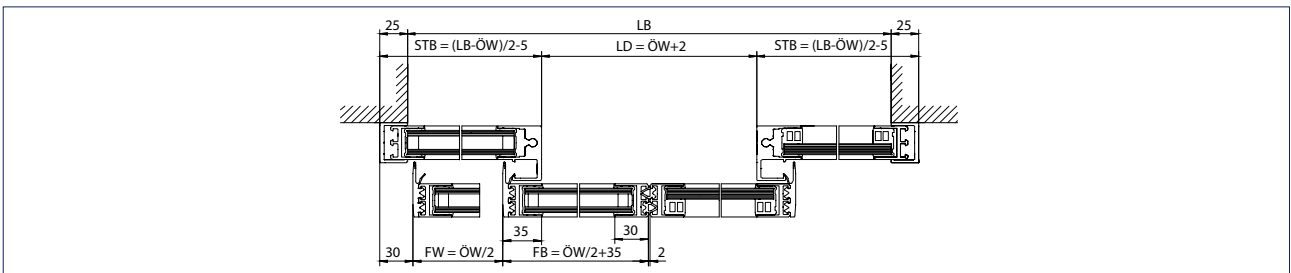
Note: See installation drawing for area of application



Installation: Self-supporting installation



Installation: Wall installation with longer drive and girder section between the walls



Installation: Wall installation

LB = Clear construction width
 STB = Side panel width
 LD = Clear passage height
 FW = Travel path

FB = Leaf width
 ÖW = Opening width
 DH = Passage height

GEZE POWERDRIVE PL

GEZE Powerdrive PL

Drive system for automatic linear sliding doors with large heavy leaves

The distinctive feature of the Powerdrive series are convenience and safety even for heavy doors. Large entrances and opening widths combined with high leaves make special demands on door drive technology. And this is exactly where the strengths of the Powerdrive come into their own. Economic and powerful, this drive moves heavy door leaves up to 200 kg (in the escape route version up to 160 kg). Optimum running characteristics and low wear thanks to compatible profiling of the rollers and track allow use in areas with a high through-traffic volume.

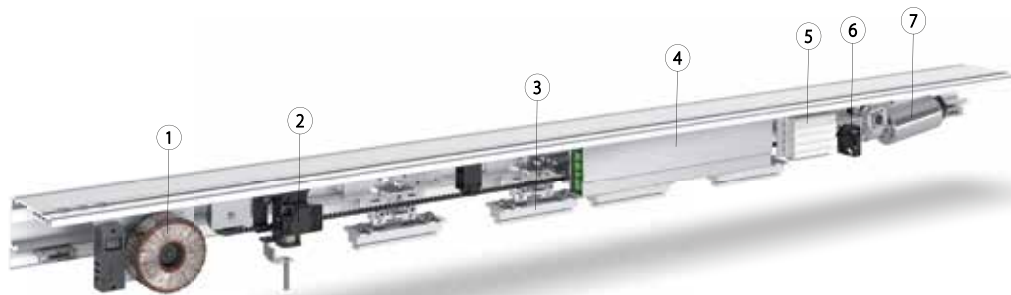


Technical data

Product features	PL	PL-FR
For 1-leaf door systems	•	•
For 2-leaf door systems	•	•
Height	150 / 200 mm	
Depth	185 mm	
Leaf weight (max.) 1-leaf	200 kg.	160 kg.
Leaf weight (max.) 2-leaf	200 kg.	160 kg.
Opening width 1-leaf	700 to 3000 mm	
Opening width 2-leaf	800 to 3000 mm	
Temperature range	-15 to 50 °C	
IP rating	IP20	
Disconnection from mains	Main switch in the drive	
Opening speed (max.)	0.8 m/s	
Closing speed (max.)	0.8 m/s	
Hold-open time	0 to 60 s	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	•	•
Automatic reversal when an obstacle is detected	•	•
Pharmacy opening	•	•
Interlocking door system function	•	-
Vestibule function	•	-
Automatic opening in the event of a power failure	adjustable	Standard
Automatic closing in the event of a power failure	adjustable	not available
Function in the event of a power failure	adjustable for 30 min / 30 cycles	Opening
Automatic opening in the event of a fault	not available	Standard
Approvals	DIN 18650 EN 16005 DIN EN ISO 13849: Performance Level D	DIN 18650 EN 16005 DIN EN ISO 13849: Performance Level D AutSchR

• = YES
- = NOT AVAILABLE

Drive components



- 1 = Transformer
- 2 = Lock
- 3 = Roller carriage
- 4 = Control unit
- 5 = Rechargeable battery
- 6 = Fan
- 7 = Motor

Technical data	PL	PL-FR
Transformer	Ring core with protection and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Capacity rating	200 W	
Lock	Toothed belt locking, electro-magnetic, bi-stable	
Roller carriage		
Door leaf adjustment vertical	12 mm	
Door leaf adjustment horizontal	40 mm	
Tiling protection	Standard	
Self-cleaning	•	•
Control unit	DCU1-NT	DCU1-2M-NT
with fault memory	•	•
with memory for statistical data	•	•
Software update possible	•	•
Bus interface optional	•	•
Connection for fire alarm system	•	•
Power supply for peripherals	•	•
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Rechargeable battery	NiCd, 24 V, 700 mAh	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

• = YES

Fitting variants

Door fittings	PL
ISO glass fine-framed	•
MONO glass fine-framed	•
GCprofile Therm, thermally separated profile system fine-framed	-
Toughened safety glass clamping profile	•
All-glass system (GGS)	-
Integrated all-glass system (IGG)	-
Wooden leaf (provided by customer)	•

• = YES
 - = NOT AVAILABLE

GEZE POWERDRIVE PL

Calculation of the drive length AL in mm*

Powerdrive	PL		PL-FR**	
	Opening width (ÖW)	Drive length (AL)	Opening width (ÖW)	Drive length (AL)
2-leaf	800 - 3000	$2 \times \text{ÖW} + 100$	800 - 3000	$2 \times \text{ÖW} + 100$
1-leaf	700 - 3000	$2 \times \text{ÖW} + 65$	700 - 3000	$2 \times \text{ÖW} + 65$

* Minimum overall length of the complete system with ISO glass profile system

** For FR variants (FR-RWS, FR-LL) request drawings!

Note:

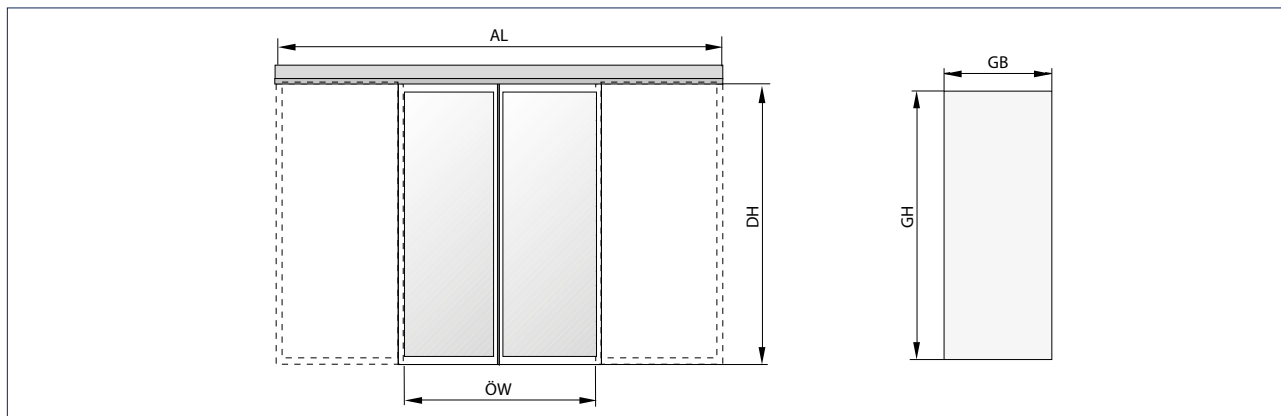
Opening widths of escape route sliding doors < 1000 mm are only permitted in exceptional cases.
 A continuous floor guide is recommended for external systems from an opening width of 2000 mm.
 The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimensions in mm

		ISO glass with aluminium secondary closing edge	ISO glass with rubber secondary closing edge	Toughened safety glass
Leaf width	1-leaf	$\text{ÖW} + 40$	$\text{ÖW} + 35$	$\text{ÖW} + 35$
	2-leaf	$\text{ÖW} / 2 + 40$	$\text{ÖW} / 2 + 35$	$\text{ÖW} / 2 + 35$
Leaf height	with cover 150 mm	DH		
	with cover 200 mm	DH + 50		
Glass width	1-leaf	ÖW	ÖW	$\text{ÖW} + 9$
	2-leaf	$\text{ÖW} / 2$	$\text{ÖW} / 2$	$\text{ÖW} / 2 + 9$
Glass height		FH - 90	FH - 90	FH - 85
Glass thickness		22	22	10, 12

Note:

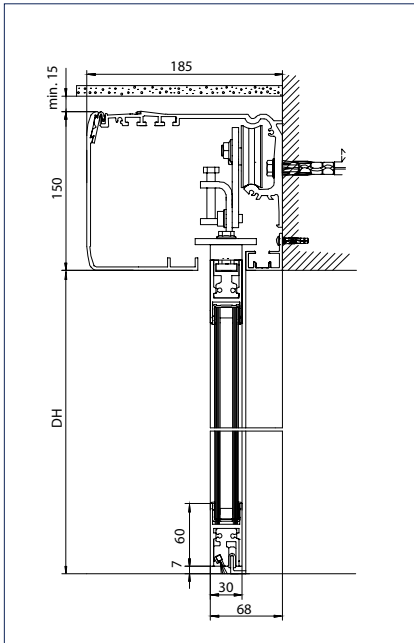
Max. leaf ratio width to height 1:4



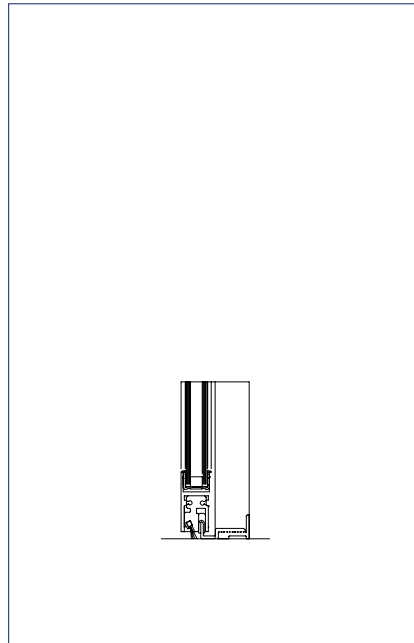
- AL = Drive length
- DH = Passage height
- GB = Glass width
- GH = Glass height
- ÖW = Opening width

with ISO/MONO glass fitting – without side panel

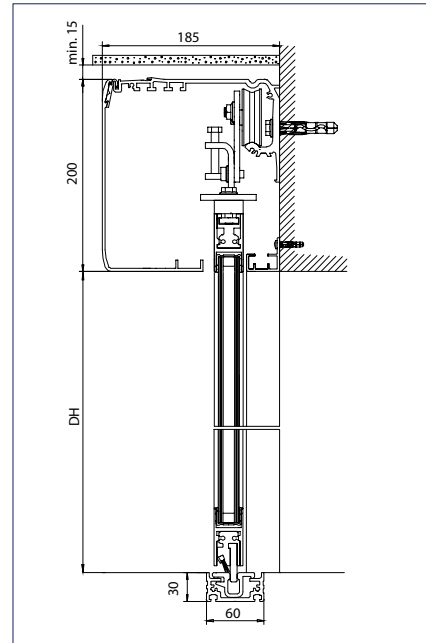
Drawing no. 70506-ep01



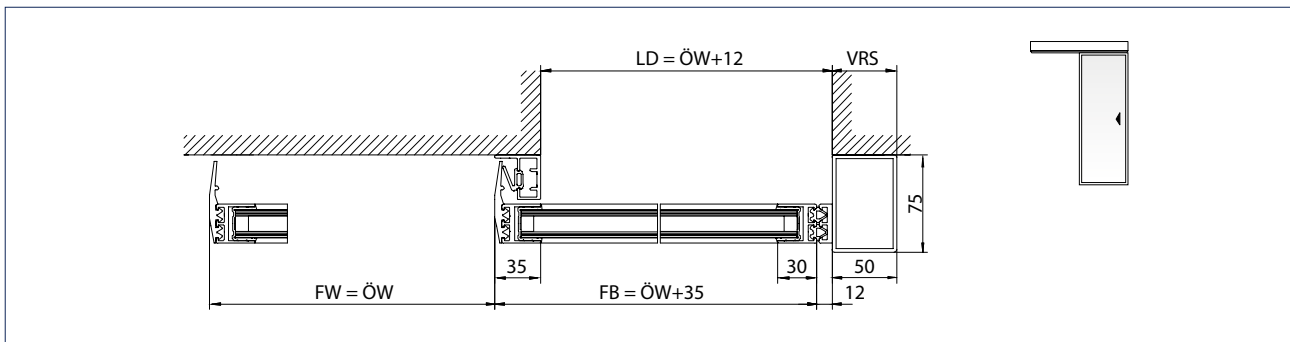
Floor guide: For floor mounting



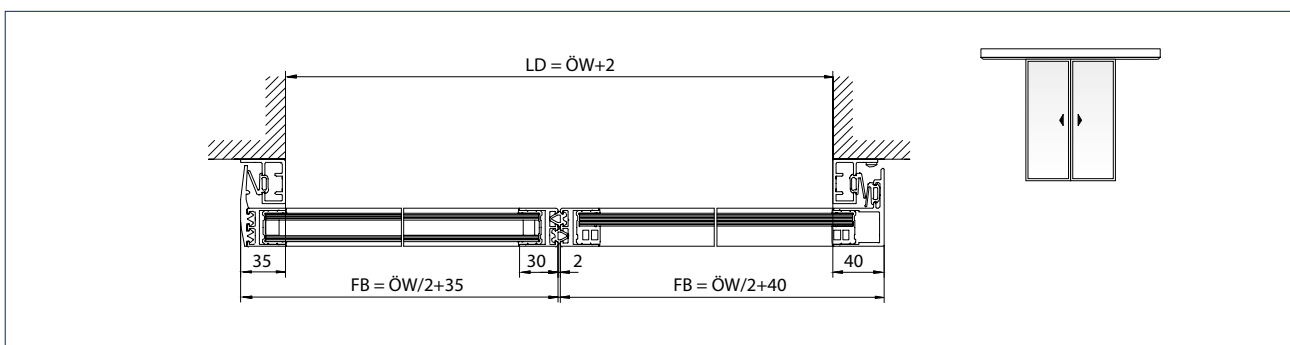
Floor guide: Adjustable for wall installation



Floor guide: Continuous



1-leaf door system

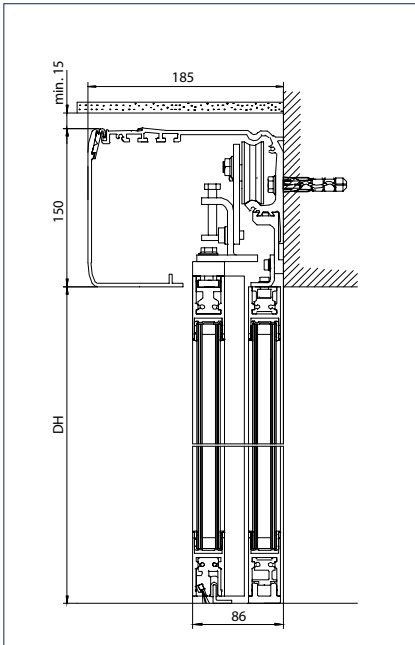


2-leaf door system

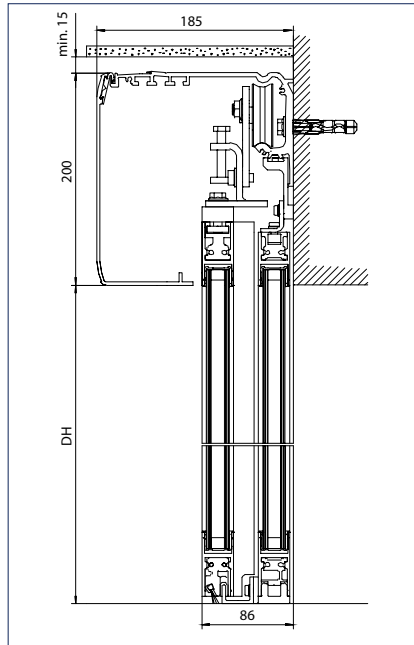
- LD = Clear passage height
- FW = Travel path
- FB = Leaf width
- ÖW = Opening width
- VRS = Drive extension right
- DH = Passage height

with ISO/MONO glass fitting – with side panels

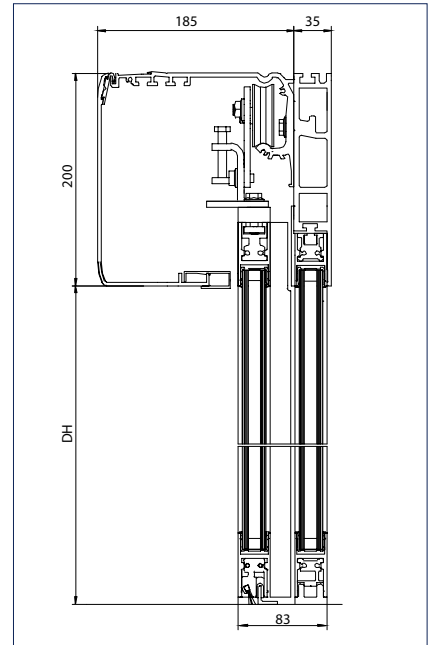
Drawing no. 70506-ep02



Door system with door leaf and side panels under drive

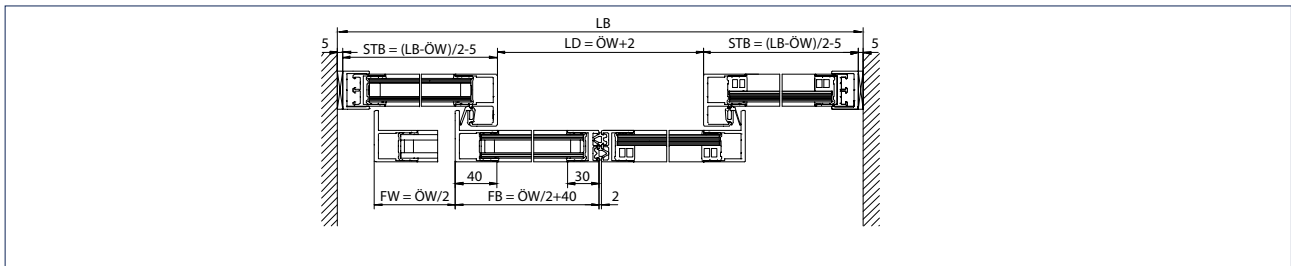


Door system with door leaf and side panels under drive

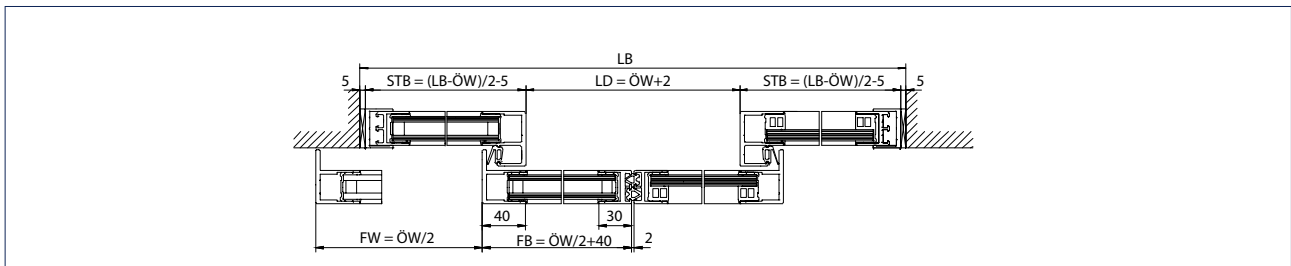


Door system with door leaf and side panels under girder section

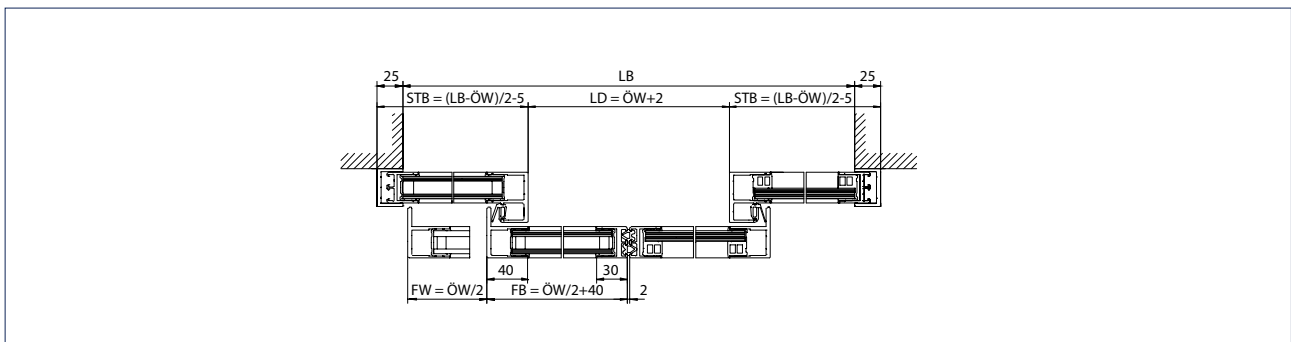
Note: See installation drawing for area of application



Installation: Self-supporting installation



Installation: Wall installation with longer drive and girder section between the walls

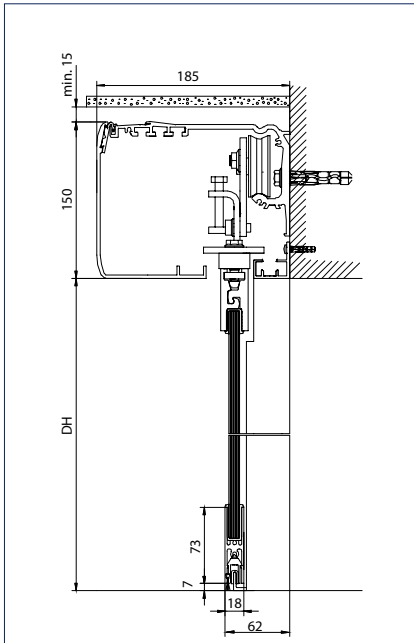


Installation: Wall installation

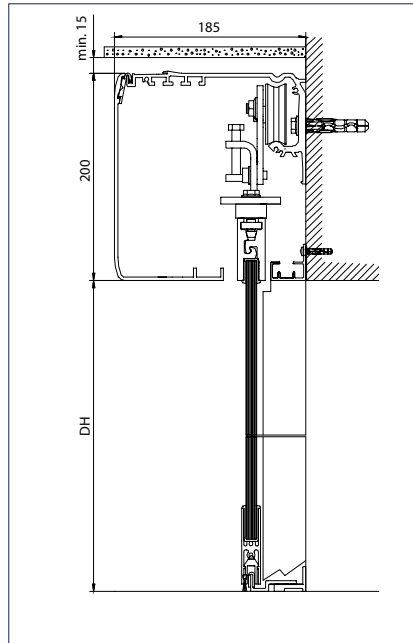
- LB = Clear construction width
- LD = Clear passage height
- FW = Travel path
- FB = Leaf width
- STB = Side panel width
- DH = Passage height
- ÖW = Opening width

with toughened safety glass clamping fitting – without side panel

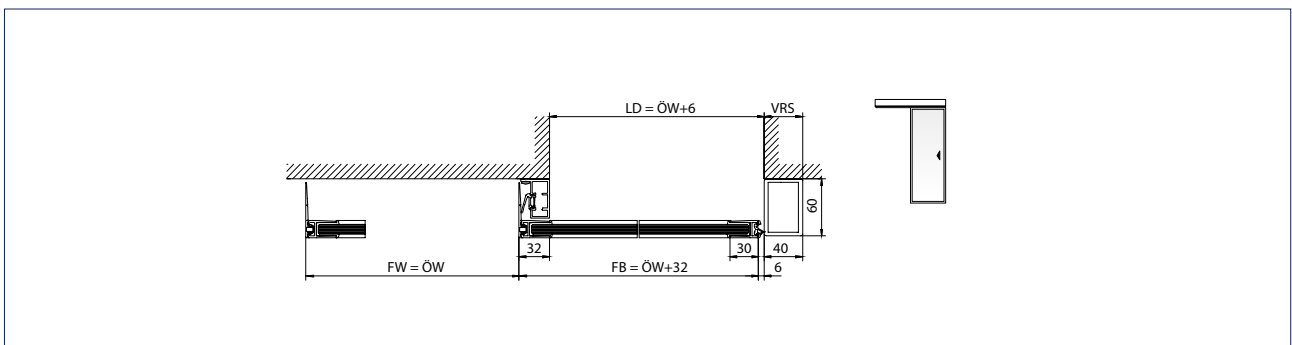
Drawing no. 70506-ep03



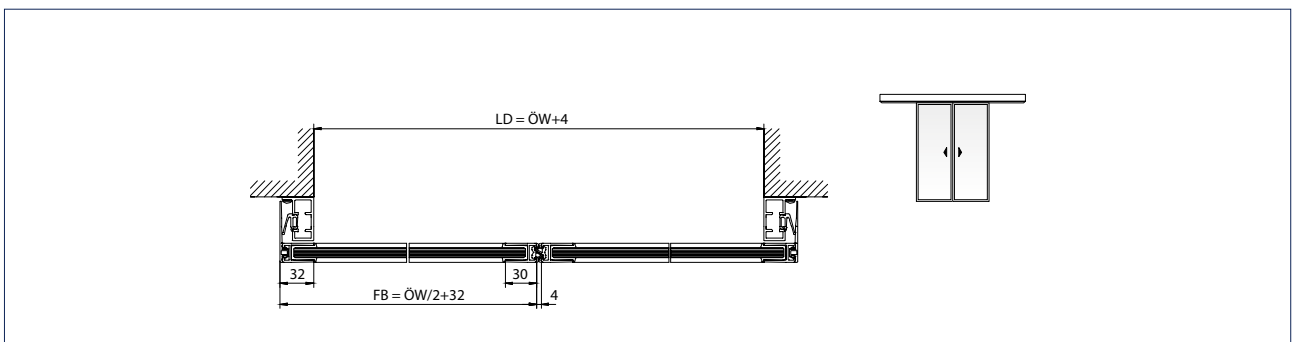
Floor guide: For floor mounting



Floor guide: Adjustable for wall installation



1-leaf door system

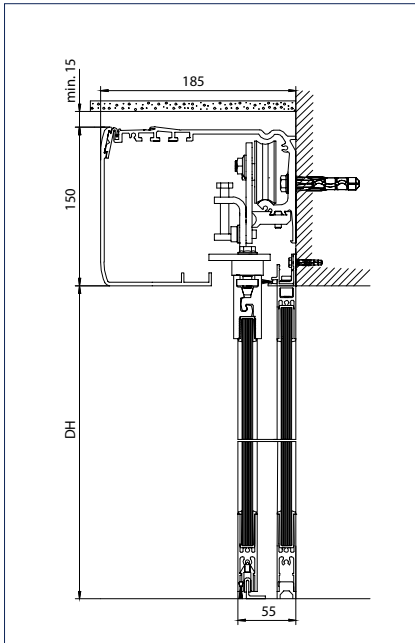


2-leaf door system

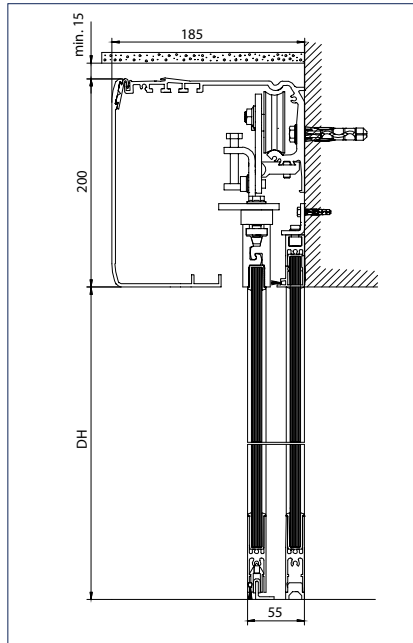
- LD = Clear passage height
- FW = Travel path
- FB = Leaf width
- ÖW = Opening width
- VRS = Drive extension right
- DH = Passage height

with toughened safety glass clamping fitting – with side panel

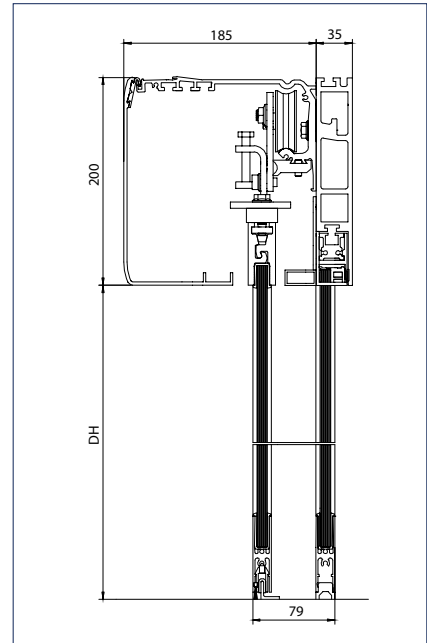
Drawing no. 70506-ep04



Door system with door leaf and side panels under drive

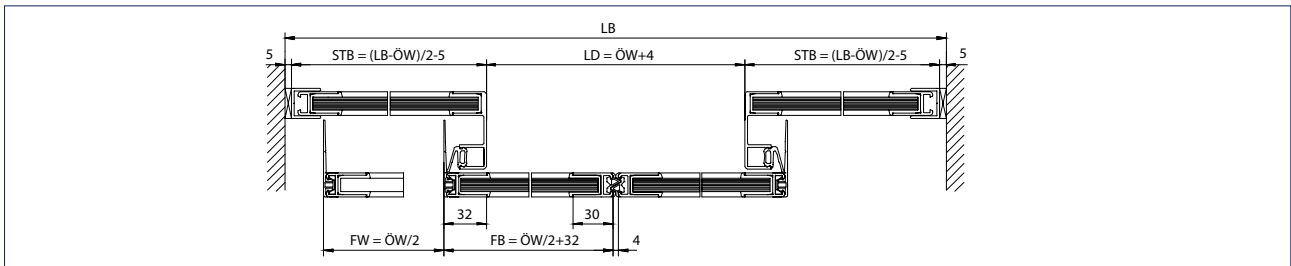


Door system with door leaf and side panels under drive

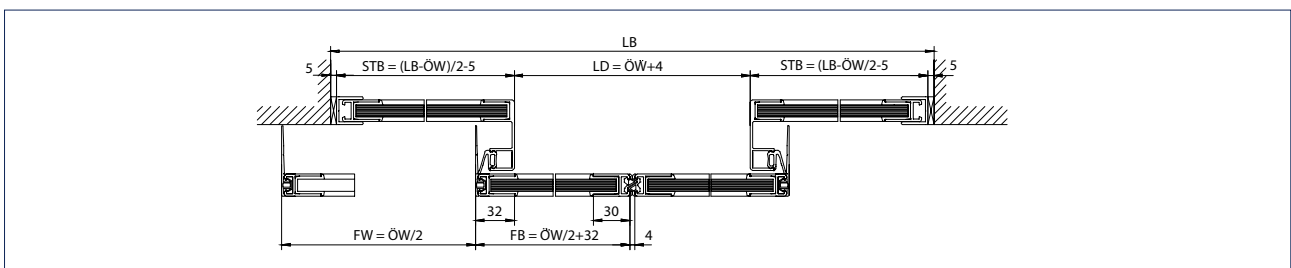


Door system with door leaf and side panels under girder section

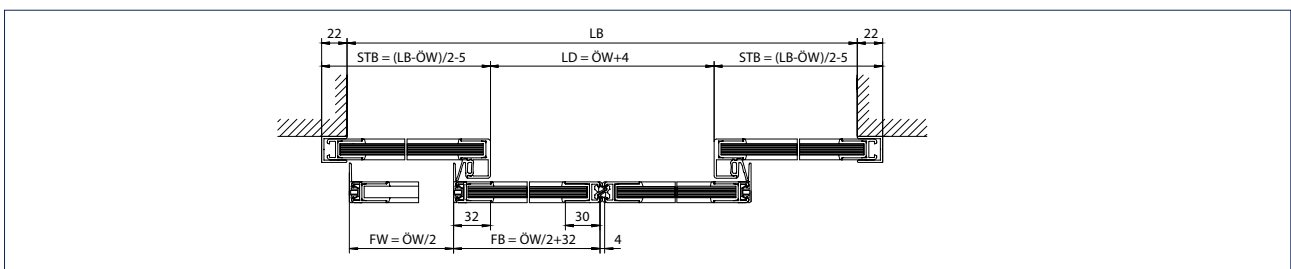
Note: See installation drawing for area of application



Installation: Self-supporting installation



Installation: Wall installation with longer drive and girder section between the walls



Installation: Wall installation with girder section

- LB = Clear construction width
- STB = Side panel width
- LD = Clear passage height
- FW = Travel path
- DH = Passage height
- FB = Leaf width
- ÖW = Opening width

SLIDING DOOR SYSTEM SPECIAL VARIANTS

Sliding door system special variants

Solutions for special purposes

The GEZE Slimdrive SL drive is available in numerous special versions. These are always used when the standard variant of the sliding door system is not suitable.

- **GEZE Slimdrive SLT:** Use in slim glass façades for 2- or 4-leaf doors.
- **GEZE Slimdrive SL RC2:** Sliding doors with burglar resistance in accordance with resistance class 2. Also optionally available as a variant for escape and rescue routes (SL RC2-FR).
- **GEZE Slimdrive SL-BO:** This variant is used in escape and rescue routes. In addition to the sliding function, the doors can be swung open using a turn-tilt fitting.
- **GEZE Slimdrive SL-RD:** Use as a smoke-proof sliding door thanks to flexible and heat-resistant seals at the perimeter.
- **GEZE Slimdrive SF:** Where space is restricted with maximum passage clearances, this variant can be used to realise a folding door system.
- **GEZE Slimdrive SL-T30:** For applications where both fire-retardant doors in accordance with DIN 4102 and smoke-proof doors in accordance with DIN 18095 are necessary.
- **GEZE Slimdrive SLV:** This variant can be used for corner sliding doors with angles between 90° and 270°.
- **GEZE Slimdrive SL inclined:** For the use of 2-leaf sliding doors in inclined glass façades with opening widths of up to 2500 mm.



Slimdrive SLT with IGG, Café Luitpold Munich, Germany (photo: Robert Sprang)

GEZE SLIMDRIVE SLT

GEZE Slimdrive SLT

Perfect integration even in the narrowest of glass façades

GEZE Slimdrive SLT is used on 2 or 4-leaf telescopic doors made of 22 mm insulated glass or frameless door leaves with concealed fittings (IGG). Slimdrive SLT moves interior and exterior doors with leaf weights of up to 320 kg reliably, inconspicuously and invisibly, thanks to the low overall height of only 7 cm. The drive makes opening widths of up to 3600 mm possible.



Technical data

Product features	SLT	SLT-FR
For 1-leaf door systems	-	-
For 2-leaf door systems	•	•
For 4-leaf door systems	•	•
Height	70 mm	
Depth	247 mm	
Leaf weight (max.) 2-leaf	80 kg.	
Leaf weight (max.) 4-leaf	80 kg.	
Opening width 2-leaf	1000 – 3000 mm	
Opening width 4-leaf	1600 – 3600 mm	
Temperature range	-15 to 50 °C	
Disconnection from mains	Main switch in the drive	
Opening speed (max.)	0.8 m/s	
Closing speed (max.)	0.8 m/s	
Hold-open time	0 to 60 s	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	•	•
Automatic reversal when an obstacle is detected	•	•
Pharmacy opening	•	•
Interlocking door system function	•	-
Vestibule function	•	-
Automatic opening in the event of a power failure	adjustable	Standard
Automatic closing in the event of a power failure	adjustable	not available
Function in the event of a power failure	adjustable for 30 min / 30 cycles	Opening
Automatic opening in the event of a fault	not available	Standard
Approvals	DIN 18650 EN 16005 DIN EN ISO 13849: Performance Level D	

• = YES
- = NOT AVAILABLE

Drive components



- 1 = Transformer
- 2 = Lock
- 3 = Control unit
- 4 = Rechargeable battery
- 5 = Motor

Technical data	SLT	SLT-FR
Transformer	Ring core with protection and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Capacity rating	140 W	
Lock	Toothed belt locking, electro-magnetic, bi-stable	
Roller carriage		
Door leaf adjustment vertical	7 mm	
Door leaf adjustment horizontal	7 mm	
Tiling protection	Optional	
Self-cleaning	-	-
Control unit	DCU1-NT	DCU1-2M-NT
with fault memory	•	•
with memory for statistical data	•	•
Software update possible	•	•
Bus interface optional	•	•
Connection for fire alarm system	•	•
Power supply for peripherals	•	•
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Rechargeable battery	NiCd, 24 V, 700 mAh	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

- = YES
- = NOT AVAILABLE

GEZE SLIMDRIVE SLT

Fitting variants

Door fittings	SLT
ISO glass fine-framed	●
MONO glass fine-framed	-
GCprofile Therm, thermally separated profile system fine-framed	-
Toughened safety glass clamping profile	-
All-glass system (GGS)	-
Integrated all-glass system (IGG)	●
Wooden leaf (provided by customer)	-

- = YES
- = NOT AVAILABLE



Robert Bosch hospital, Stuttgart, Germany (photo: Nikolaus Grünwald)

Calculation of the drive length AL in mm*

	Slimdrive SLT		Slimdrive SLT-FR	
	Opening width (ÖW)	Drive length (AL)	Opening width (ÖW)	Drive length (AL)
4-leaf	1600 - 1999	ÖW + 1180	1600 - 1999	ÖW + 1180
	2000 - 3600	1.5 x ÖW + 150	2000 - 3600	1.5 x ÖW + 150
2-leaf left hand slide to open	1000 - 1360	ÖW + 770	1000 - 1560	ÖW + 870
	1360 - 3000	1.5 x ÖW + 90	1560 - 3000	1.5 x ÖW + 90
2-leaf right hand slide to open	1000 - 1460	ÖW + 780	1000 - 1660	ÖW + 880
	1460 - 3000	1.5 x ÖW + 50	1660 - 3000	1.5 x ÖW + 50

* Minimum overall length of the complete system with ISO glass profile system

Note:

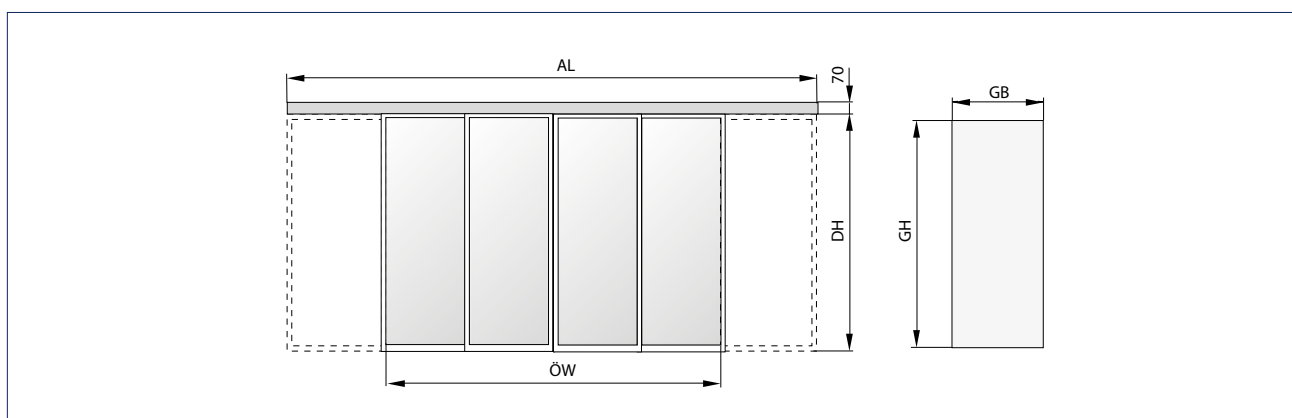
Opening widths of escape route sliding doors < 1000 mm are only permitted in exceptional cases.
 A continuous floor guide is generally recommended for outdoor systems.
 The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimensions in mm

depending on the opening width and passage height		Internal leaf	External leaf
Leaf width	2-leaf		ÖW / 2 + 40
	4-leaf		ÖW / 4 + 40
Leaf height	2 or 4-leaf		DH - 17
Glass width	2-leaf	ÖW / 2	ÖW / 2 - 10
	4-leaf	ÖW / 4	ÖW / 4 - 10
Glass height	2 or 4-leaf	FH - 90	FH - 90
Glass thickness		22	22

Note:

max. leaf ratio width to height 1:4 or 1:5 in the case of 4-leaf systems, ÖW 1600 - 2000 mm

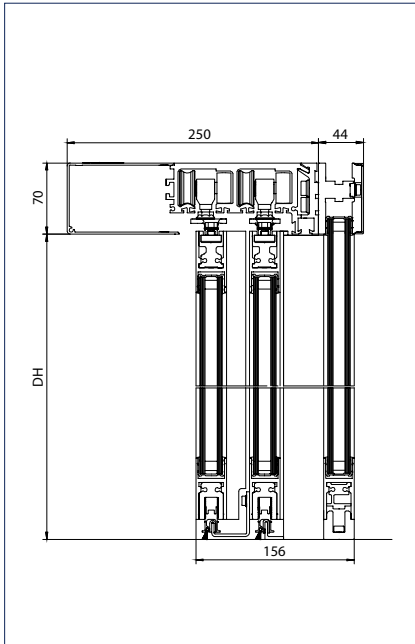


- AL = Drive length
- DH = Passage height
- GB = Glass width
- GH = Glass height
- ÖW = Opening width

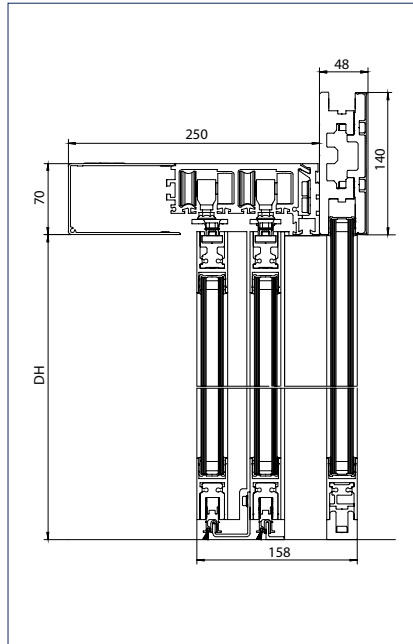
GEZE SLIMDRIVE SLT

with ISO/MONO glass fitting – with side panel

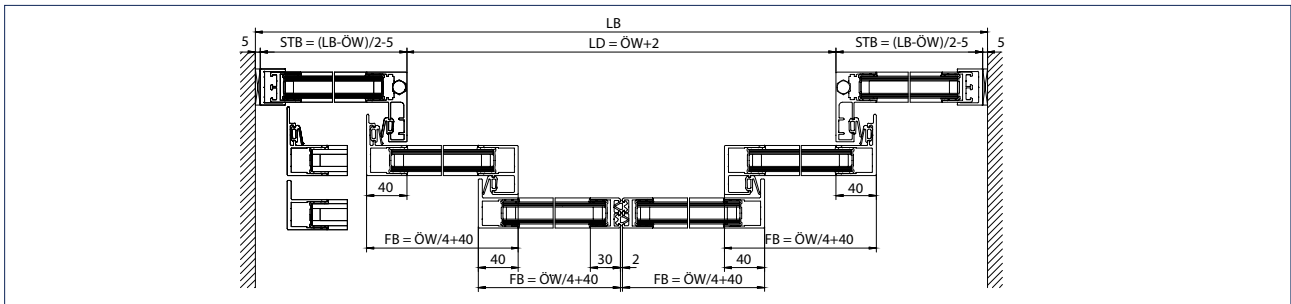
Drawing nos. 70717-ep02 + 70717-ep04



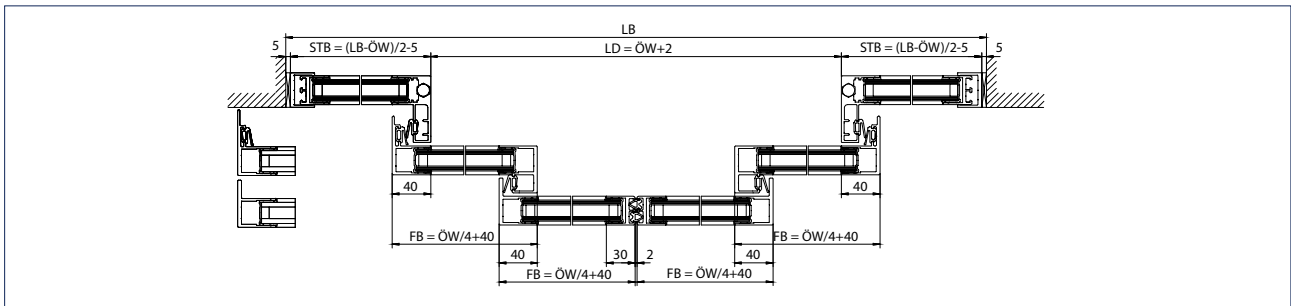
Low girder section



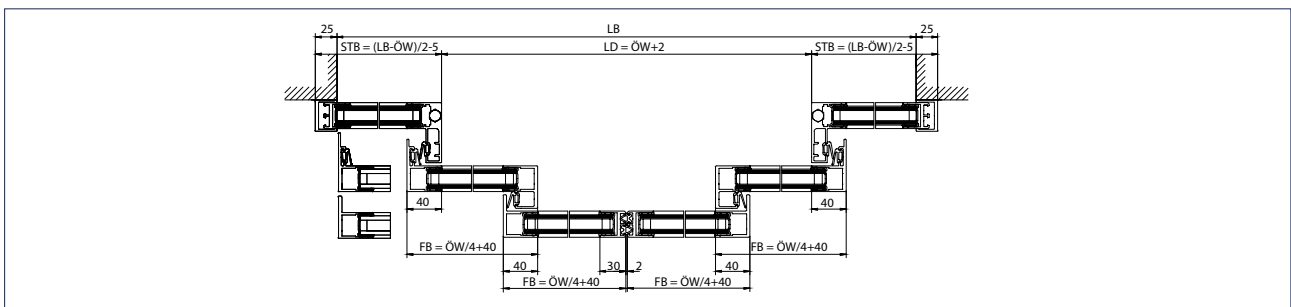
High girder section



Installation: Self-supporting installation



Installation: Wall installation with longer drive and girder section between the walls



Installation: Wall installation

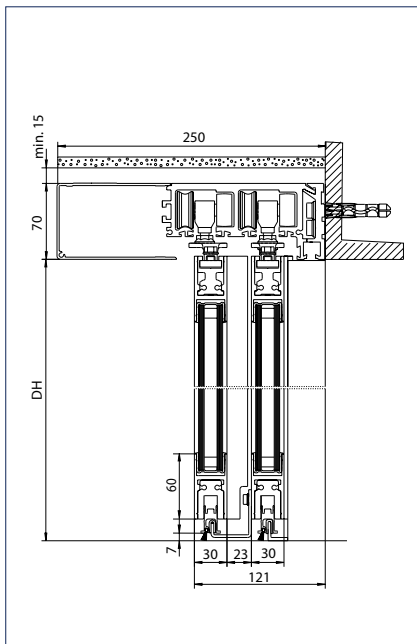
LB = Clear construction width
 STB = Side panel width
 LD = Clear passage height

FB = Leaf width
 ÖW = Opening width
 DH = Passage height

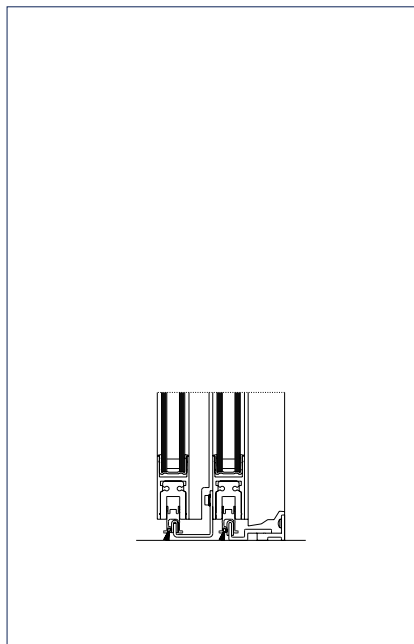
Note: See installation drawing for area of application

with ISO/MONO glass fitting – without side panel

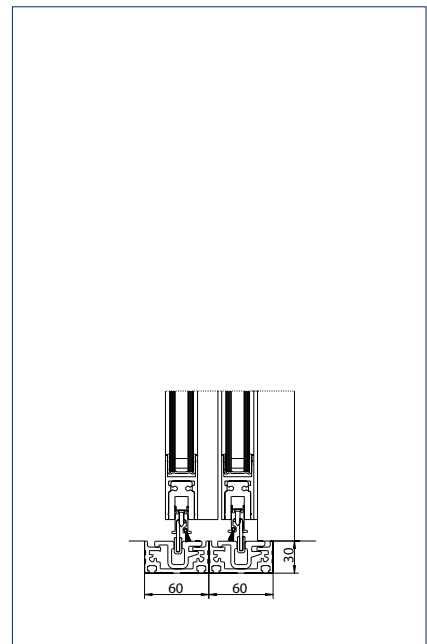
Drawing no. 70487-ep01



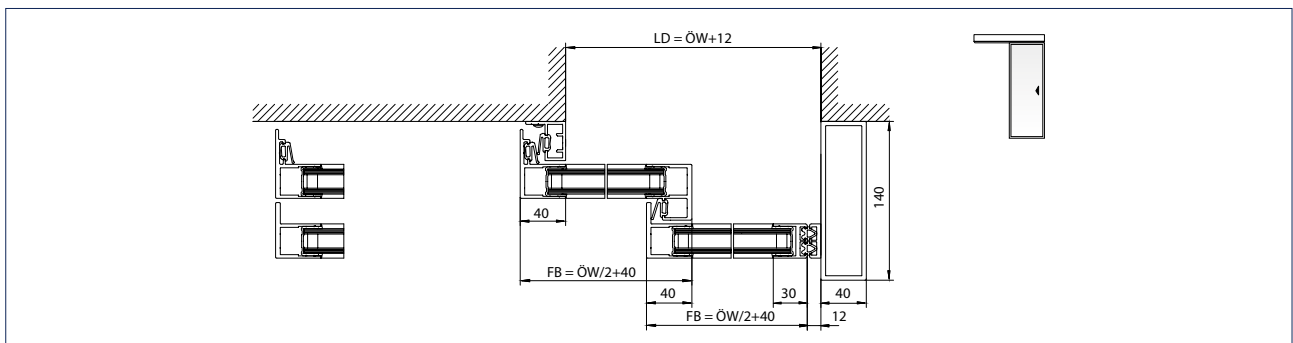
Floor guide: For floor mounting



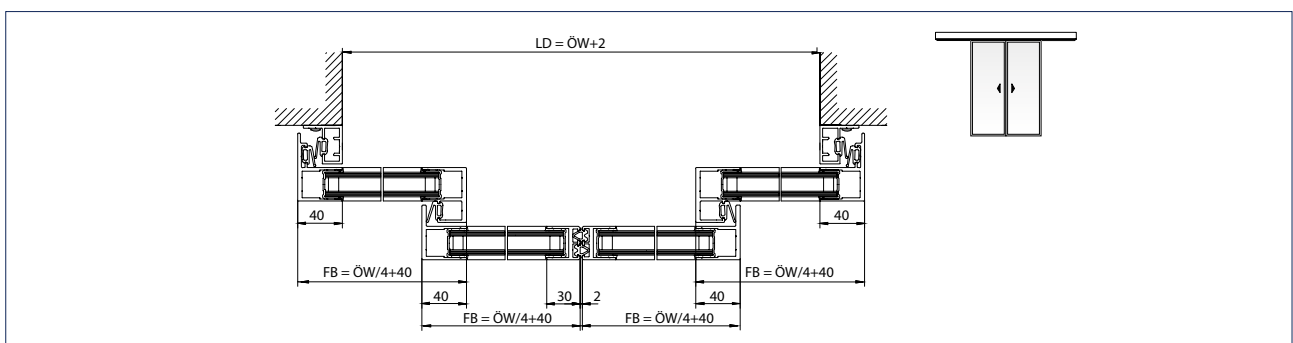
Floor guide: Adjustable for wall installation



Floor guide: Continuous



1-leaf door system



2-leaf door system

LD = Clear passage height
 FB = Leaf width
 ÖW = Opening width
 DH = Passage height

GEZE Slimdrive SL RC2

Sliding doors with burglar resistance in accordance with resistance class 2 (RC2)

The burglar-resistant automatic linear sliding door system GEZE Slimdrive SL RC2 and the escape and rescue route variant SL-FR RC2 makes burglars' lives difficult. It was specially developed for building entrances with increased safety requirements. Both variants have been tested in accordance with component resistance class 2 (RC2) in line with DIN V ENV 1627 to 1630. This means that they can withstand attempts to be levered open using tools of the RC2 class such as screwdrivers, pliers and wedges, and can withstand static and dynamic loads. Opportunists are stopped effectively and security companies gain response time. RC2 sliding doors are particularly used in banks, pharmacies, jewellers, petrol stations and IT rooms. The burglar-resistant function RC2 is only enabled in the "NIGHT" mode of operation. In the "NIGHT" mode of operation, the door does not fulfil any escape route demands. It is therefore important to ensure that there is nobody in the building or that sufficient other emergency exits are available.



Hycro Grand Centre, Zagreb, Croatia (photo: Robert Les)

Calculation of the drive length AL in mm*

	Slimdrive SL RC2		Slimdrive SL-FR RC2**	
	Opening width (ÖW)	Drive length (AL)	Opening width (ÖW)	Drive length (AL)
2-leaf	900 - 1000	$\ddot{O}W + 1100$	900 - 1000	$\ddot{O}W + 1100$
	1000 - 3000	$2 \times \ddot{O}W + 100$	1000 - 3000	$2 \times \ddot{O}W + 100$
1-leaf left hand slide to open	800 - 3000	$2 \times \ddot{O}W + 120$	800 - 870	$\ddot{O}W + 990$
			870 - 3000	$2 \times \ddot{O}W + 120$
1-leaf right hand slide to open	800 - 3000	$2 \times \ddot{O}W + 120$	800 - 820	$\ddot{O}W + 940$
			820 - 3000	$2 \times \ddot{O}W + 120$

* Minimum overall length of the complete system with ISO glass profile system

** For FR variants (FR-RWS, FR-LL) request drawing!

Note:

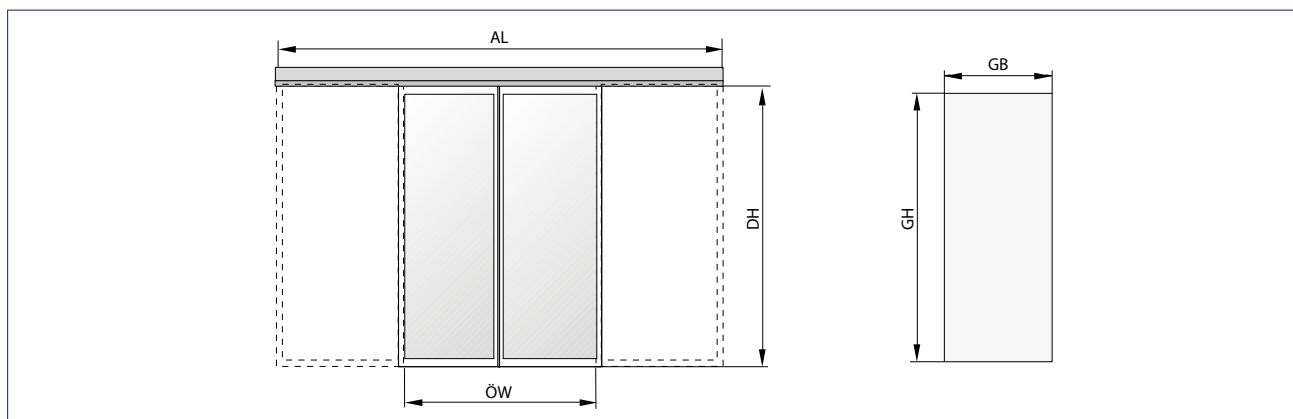
Opening widths of escape route sliding doors < 1000 mm are only permitted in exceptional cases. The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimensions in mm (ISO glass profile system)

ISO glass (in accordance with RC2)		
Leaf width	1-leaf	$\ddot{O}W + 40$
	2-leaf	$\ddot{O}W / 2 + 40$
Leaf height	1-leaf / 2-leaf	DH - 17
Glass width	1-leaf	$\ddot{O}W - 20$
	2-leaf	$\ddot{O}W / 2 - 20$
Glass height	1-leaf / 2-leaf	FH - 90
Glass thickness	1-leaf / 2-leaf	max. 23.5

Note:

Max. leaf ratio width to height 1:4



- AL = Drive length
- DH = Passage height
- GB = Glass width
- GH = Glass height
- ÖW = Opening width

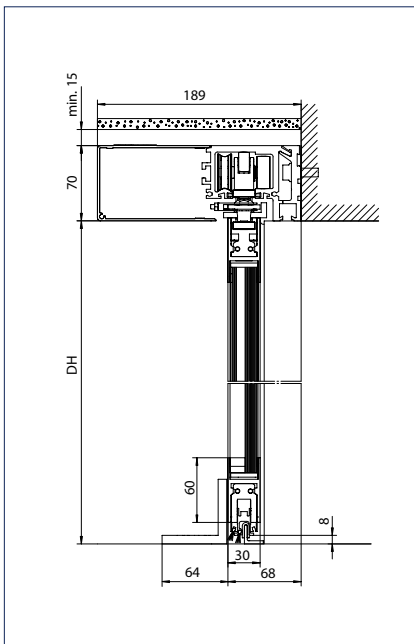
Note:

The burglar-resistant function RC2 is only enabled in "NIGHT" mode of operation. In the "NIGHT" mode of operation, the door does not fulfil any escape route demands. It is therefore important to ensure that there is nobody in the building or that sufficient other emergency exits are available.

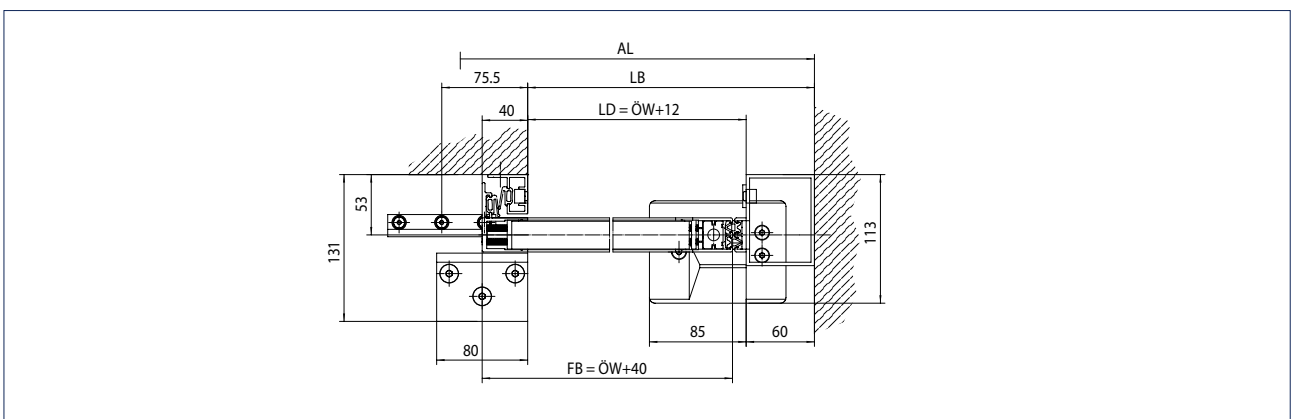
GEZE SLIMDRIVE SL RC2

with ISO/MONO glass fitting – without side panel

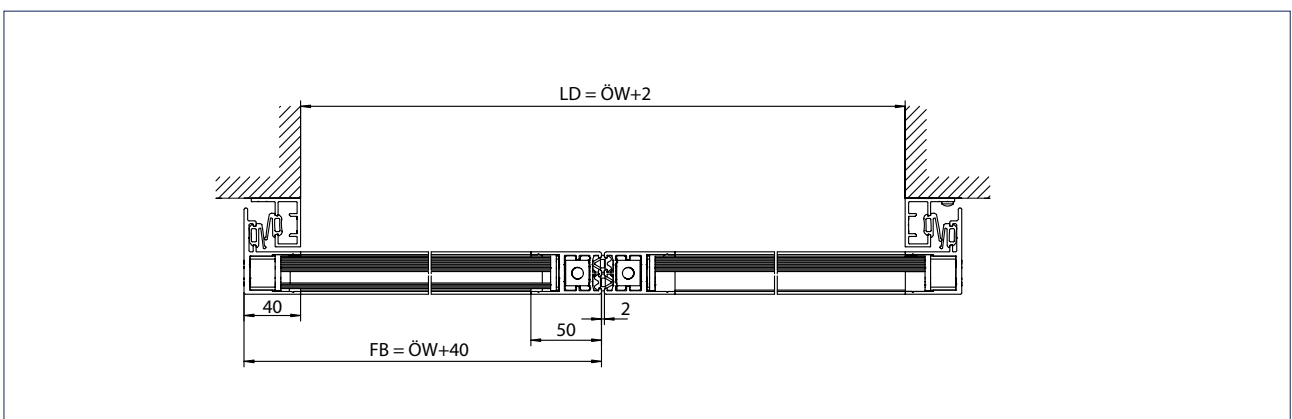
Drawing no. 70484-ep-46/47



Floor guide: With reinforced supporting bracket at individual points



1-leaf door system



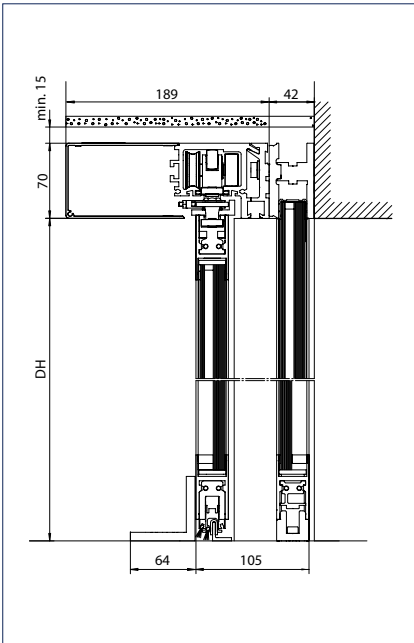
2-leaf door system

AL = Drive length
 LB = Clear construction width
 DH = Passage height

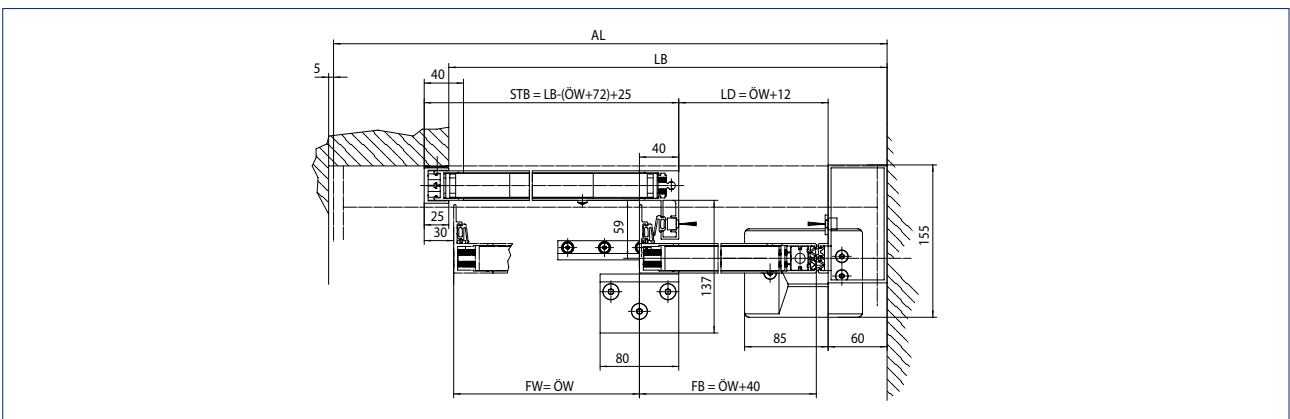
LD = Clear passage height
 FB = Leaf width
 ÖW = Opening width

with ISO/MONO glass fitting – with side panel

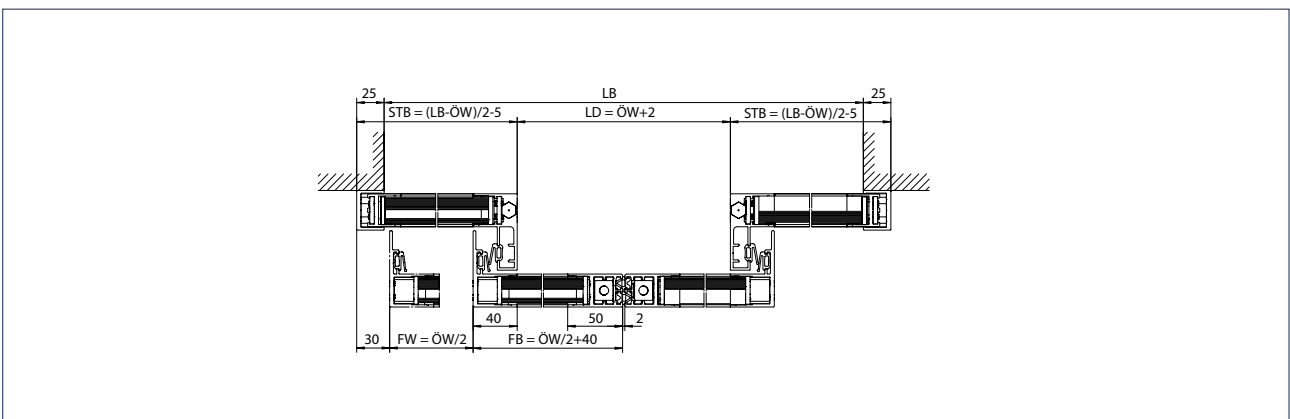
Drawing no. 70484-ep-46/47



Floor guide: With reinforced supporting bracket at individual points



1-leaf door system



Installation: Wall installation

- | | |
|---------------------|-------------------------------|
| AL = Drive length | LB = Clear construction width |
| FB = Leaf width | LD = Clear passage height |
| FW = Travel path | ÖW = Opening width |
| DH = Passage height | STB = Side panel width |

Note: See installation drawing for area of application

GEZE Slimdrive SL-BO

Emergency opening by swinging open leaves and side panels

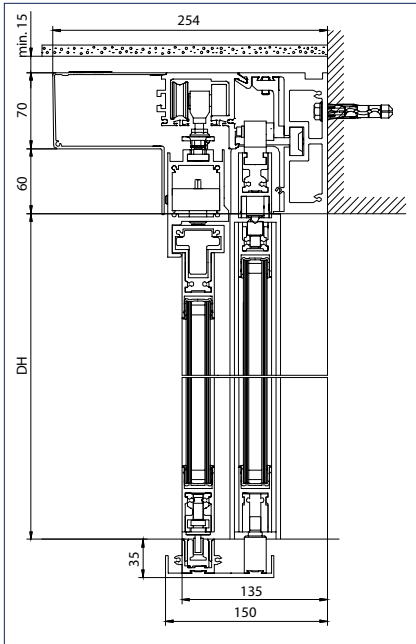
GEZE sliding doors with break-out function are used on escape and rescue routes. The BO function allows the leaves to be swung open in the direction of escape – as a sliding door system with a turn-tilt fitting, so to speak. Sliding doors with BO function have pivoting side panels and are available for 1 or 2-leaf door systems. Doors with escape route requirements are used in regions where redundant drives are not recognised. BO sliding doors are used in entrance areas where a large opening width is required, e.g. in car dealerships.



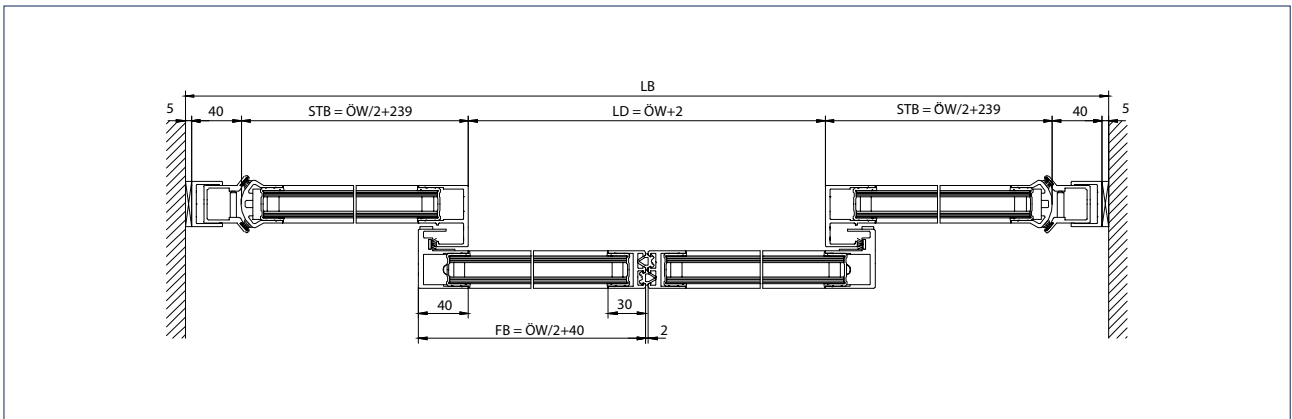
Auditorium centre Klinikum rechts der Isar, Munich, Germany (photo: Robert Sprang)

with ISO/MONO glass fitting

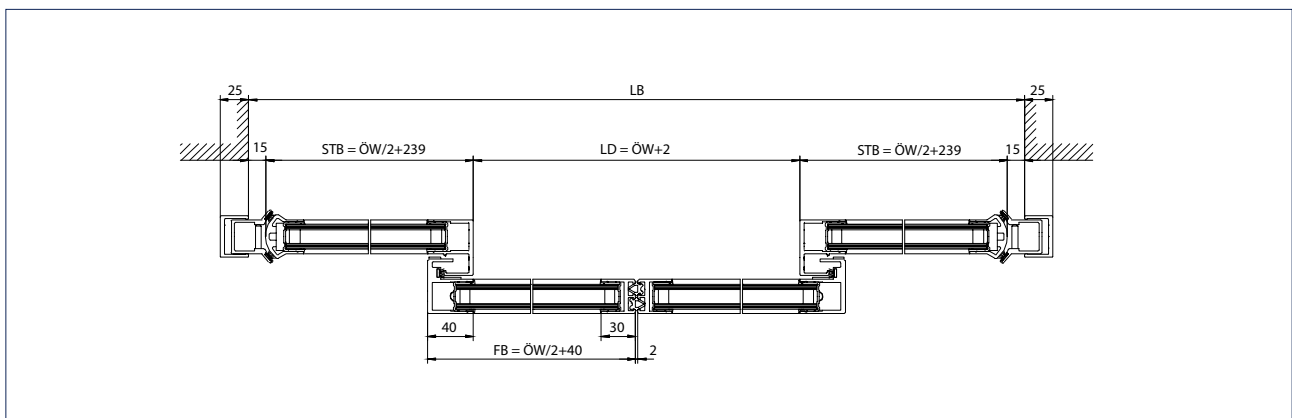
Drawing no. 70485-ep51



Door system with door leaf and side panels



Installation: Self-supporting installation



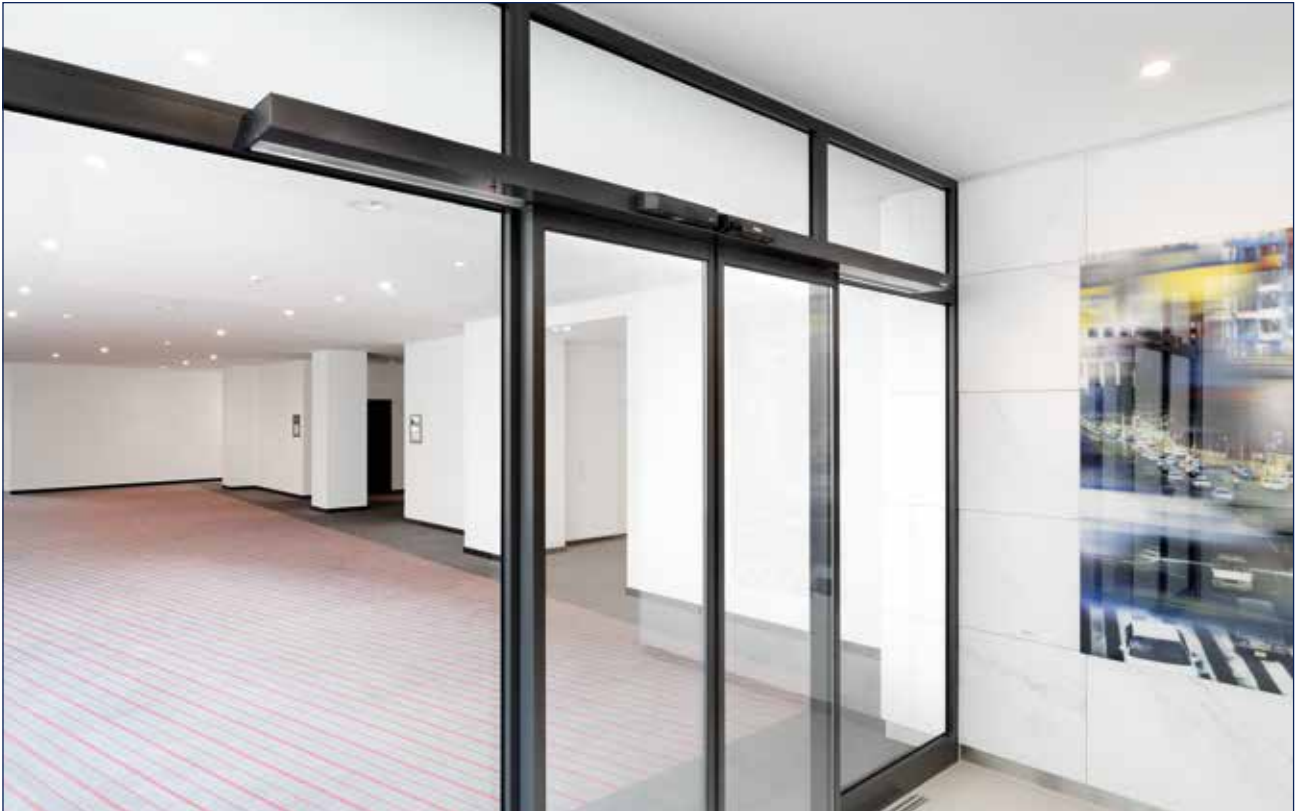
Installation: Wall installation

- LB = Clear construction width FB = Leaf width
- STB = Side panel width ÖW = Opening width
- LD = Clear passage height DH = Passage height

GEZE Slimdrive SL-RD

Enhanced safety thanks to smoke-proof sliding doors (RD)

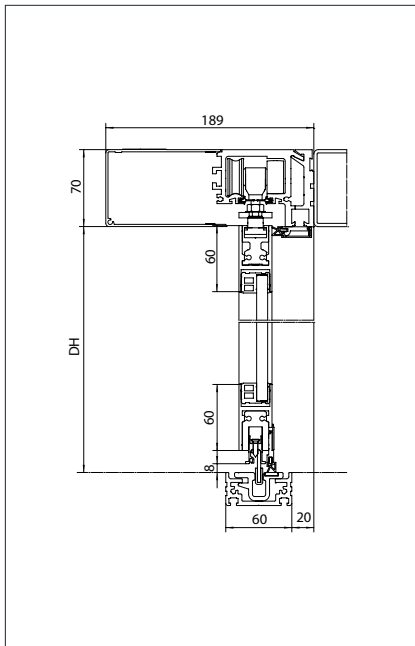
Smoke-proof sliding doors from GEZE meet all smoke protection requirements and allow various possible designs. Thanks in part to the 7 cm drive height of the Slimdrive product line. This sliding door system is made up of the drive and the sophisticated smoke-proof profile system. The continuous floor guide and flexible, heat-resistant seals at the perimeter guarantee smoke proofing. In the event of a fire, release is via a smoke detector or an external fire alarm system.



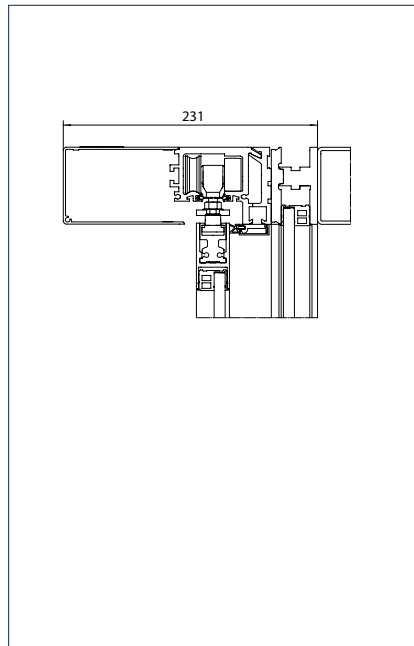
Andels Hotel, Berlin, Germany (photo: Stefan Dauth)

with ISO/MONO glass fitting

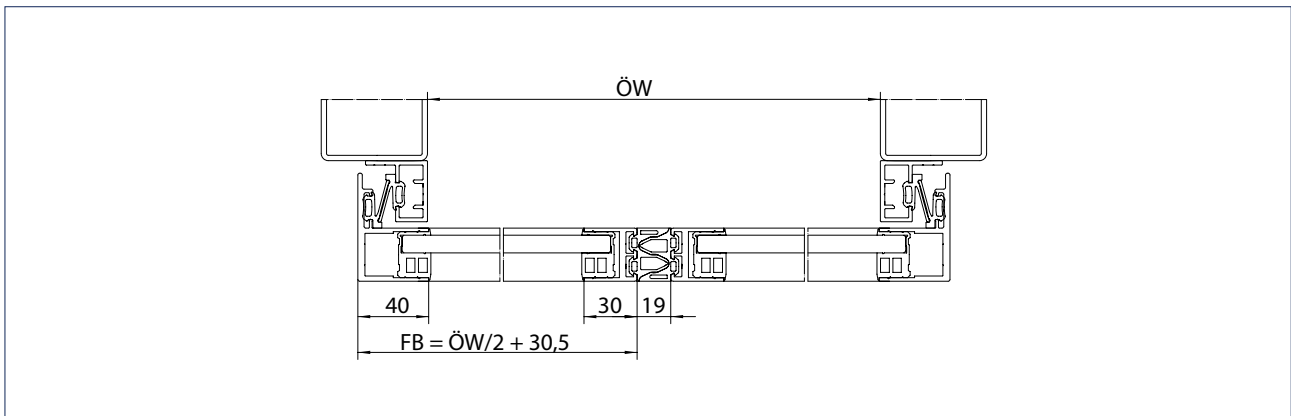
Drawing no. 70484-ep39



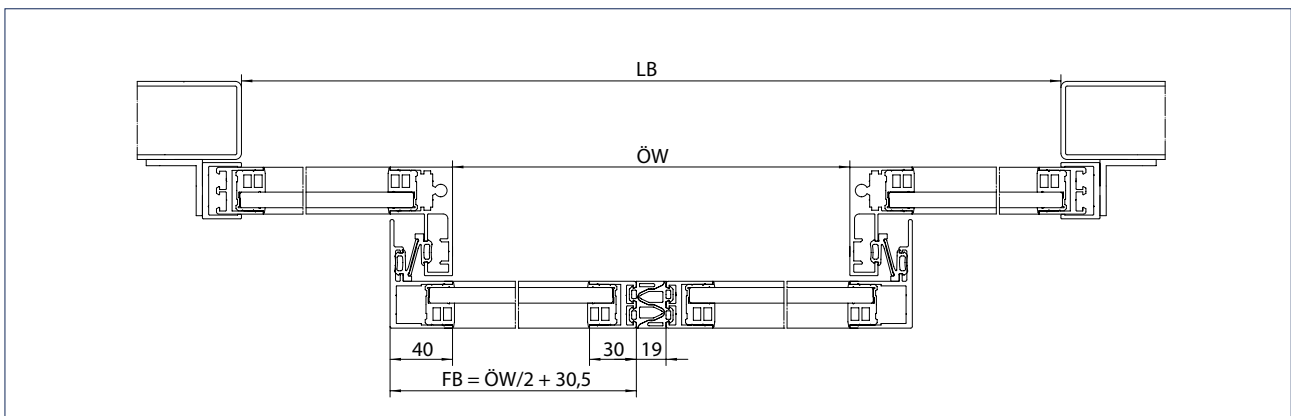
Drive on bolt profile



Drive with side panels on bolt profile



2-leaf door system



4-leaf door system

- FB = Leaf width
- LB = Clear passage clearance
- ÖW = Opening width
- DH = Passage height

GEZE Slimdrive SF

Drive system for automatic folding doors

Wherever maximum passage widths must be achieved in tight spaces, the use of automatic doors with horizontal folding door leaves is the optimum solution. The GEZE automatic folding door system with the 7 cm drive height characteristic of the Slimdrive series guarantees maximum passage height for conversions, for example. The low overall height of the drive makes it almost unnoticeable, yet it is highly efficient. Retrofitting to existing façades is no problem. The electromechanical break axle ensures the door is locked safely at night.

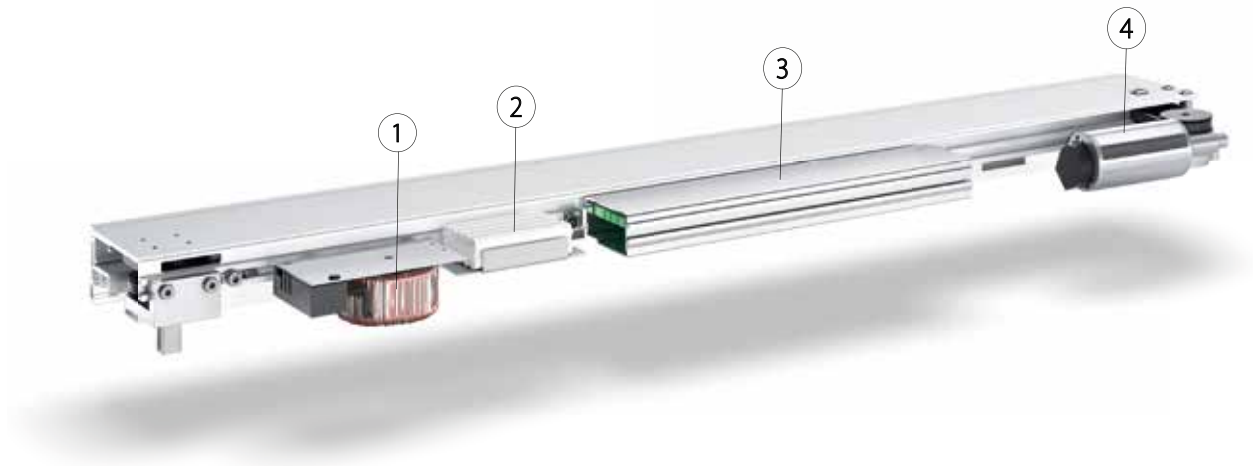


Technical data

Product features	SF	SF-FR
For 1-leaf door systems	-	-
For 2-leaf door systems	-	-
For 4-leaf door systems	•	•
Height	70 mm	
Depth	282 mm	
Leaf weight (max.) 4-leaf	40 kg.	
Opening width 4-leaf	900 to 2000 mm	
Temperature range	-15 to 50 °C	
IP rating	IP20	
Disconnection from mains	Main switch in the drive	
Opening speed (max.)	0.8 m/s	
Closing speed (max.)	0.8 m/s	
Hold-open time	0 to 60 s	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	•	•
Automatic reversal when an obstacle is detected	•	•
Pharmacy opening	•	•
Interlocking door system function	•	-
Vestibule function	•	-
Automatic opening in the event of a power failure	adjustable	Standard
Automatic closing in the event of a power failure	adjustable	not available
Function in the event of a power failure	adjustable for 30 min / 30 cycles	Opening
Automatic opening in the event of a fault	not available	Standard
Approvals	DIN 18650 EN 16005 DIN EN ISO 13849: Performance Level D	

• = YES
- = NOT AVAILABLE

Drive components



- 1 = Transformer
- 2 = Rechargeable battery
- 3 = Control unit
- 4 = Motor

Technical data	SF	SF-FR
Transformer	Ring core with protection and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Capacity rating	140 W	
Roller carriage		
Control unit	DCU1-NT	DCU1-2M-NT
With fault memory	•	•
With memory for statistical data	•	•
Software update possible	•	•
Bus interface optional	•	•
Connection for fire alarm system	•	•
Power supply for peripherals	•	•
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Rechargeable battery	NiCd, 24 V, 700 mAh	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

• = YES

Fitting variants

Door fittings	SF
ISO glass fine-framed	●
MONO glass fine-framed	●
GCprofile Therm, thermally separated profile system fine-framed	-
Toughened safety glass clamping profile	-
All-glass system (GGS)	-
Integrated all-glass system (IGG)	-
Frame leaf (provided by customer)	-
Wooden leaf (provided by customer)	-

- = YES
- = NOT AVAILABLE



Kulturhotel Fürst Pückler, Bad Muskau, Germany (photo: Stefan Dauth)

Calculation of the drive length AL in mm*

Slimdrive SF		
	Opening width (ÖW)	Drive length (AL)
4-leaf	900 - 2000*	ÖW + 334

* Minimum overall length of the complete system with ISO glass profile system

Note:

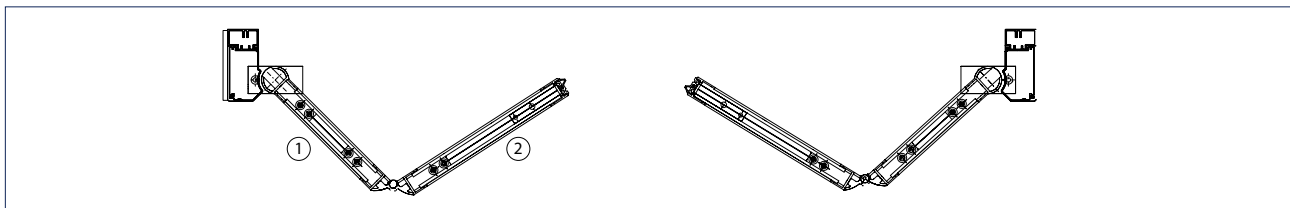
Opening widths of escape route sliding doors < 1000 mm are only permitted in exceptional cases.
 A continuous floor guide is generally recommended for outdoor systems.
 A continuous floor guide is recommended from 1400 mm for indoor use.
 The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimensions in mm

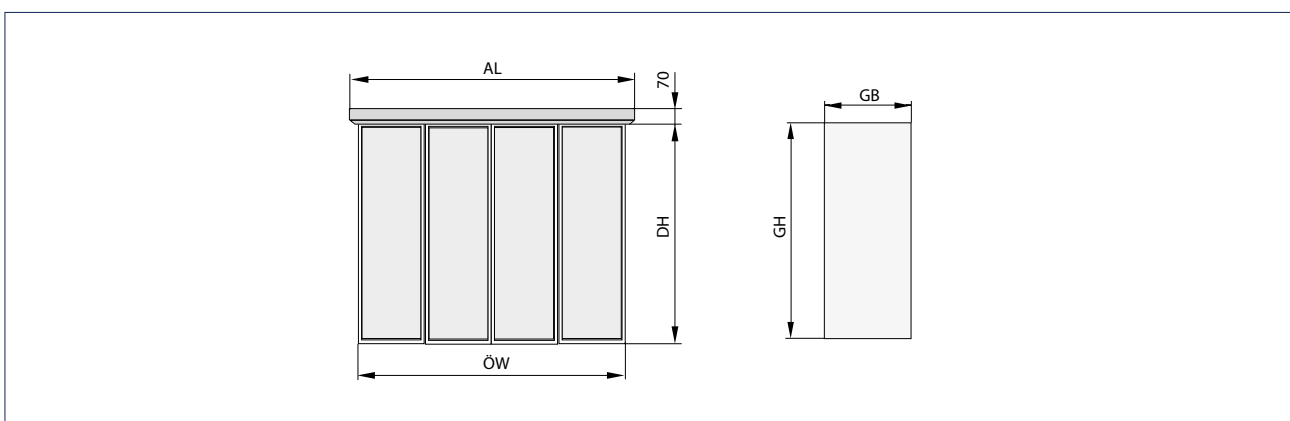
Slimdrive SF	
Driving leaf	Glass width = $\text{ÖW} / 4 + 10.5$
Following leaf	Glass width = $\text{ÖW} / 4 + 1.5$
Glass height	DH - 82
Glass thickness ISO glass	22
Glass thickness toughened safety glass/laminated safety glass	10

Note:

Max. leaf ratio width to height 1:4



- 1 = Following leaf
- 2 = Driving leaf

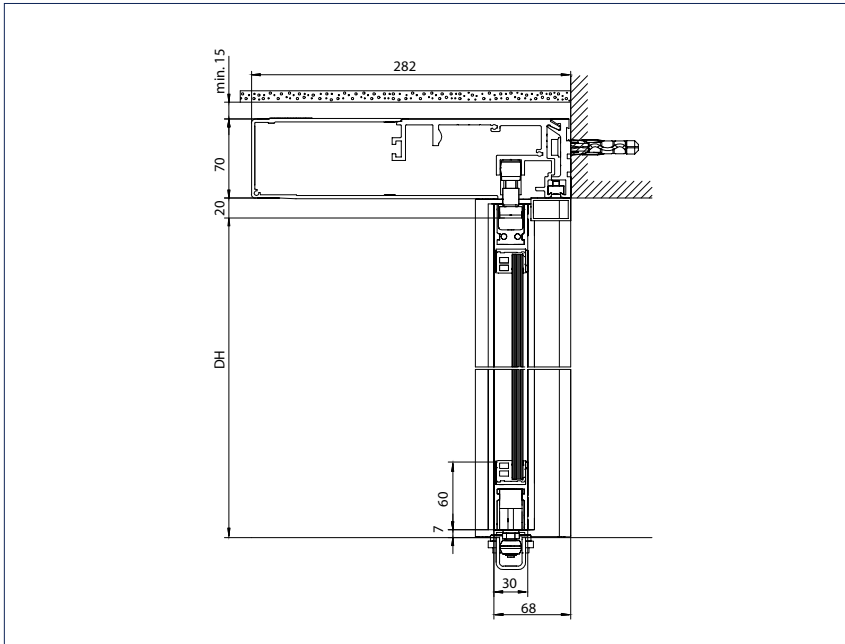


- AL = Drive length
- DH = Passage height
- GB = Glass width
- GH = Glass height
- ÖW = Opening width

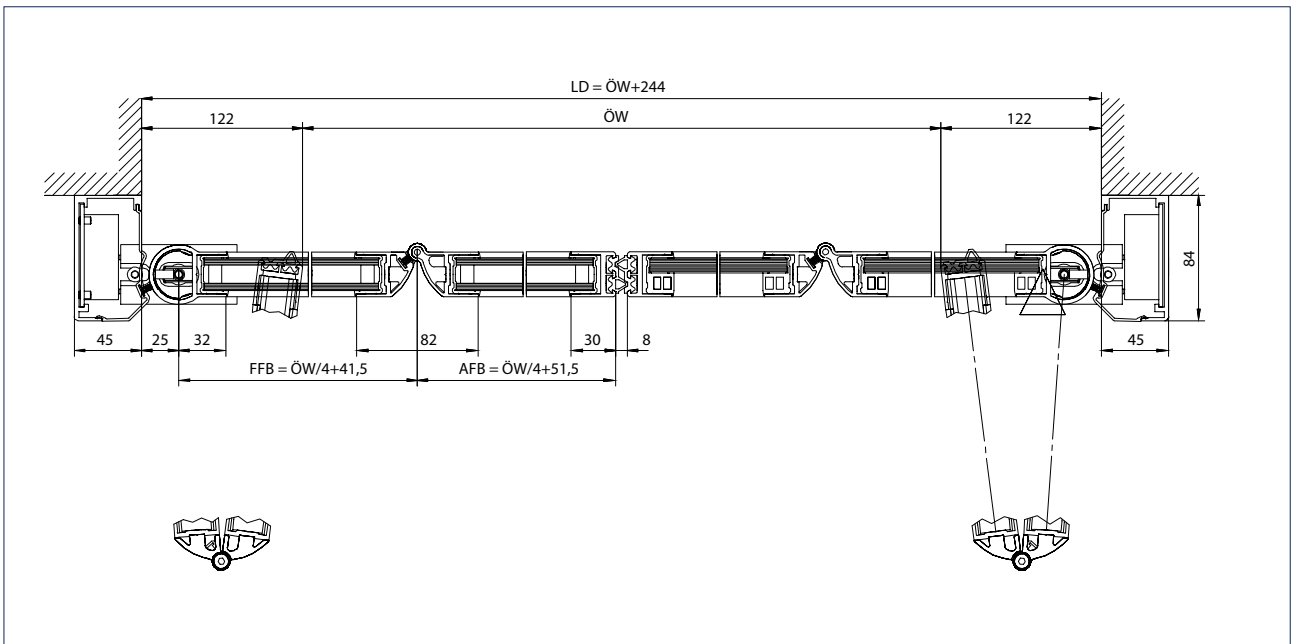
GEZE SLIMDRIVE SF

with ISO/MONO glass fitting

Drawing no. 70497-ep01 + 70497-ep02



Door system with door leaf



4-leaf door system

LD = Clear passage height

ÖW = Opening width

FFB = Following leaf width

AFB = Driving leaf width

DH = Passage height

GEZE Slimdrive SL-T30

Fire protection sliding doors with hold-open device and trigger mechanism, permanent closing in the event of a fire

Fire protection doors are used to stop fire getting through wall openings in fire-retardant walls. Fire protection doors of resistance class T30 are fire-retardant doors in accordance with DIN 4102 and smoke-proof in accordance with DIN 18095. The closing function is guaranteed even in the event of a fire. After the fire alarm has been raised and/or the mains supply voltage has failed, the door automatically closes by means of stored energy. The necessary fire resistance class for a door depends on what the building is used for and the requirements made on the wall where the door is installed. The T30 sliding door systems are offered in cooperation with partner companies.



Bistro Kunsthalle, Ulm, Germany (photo: Nikolaus Grünwald)

GEZE Slimdrive SLV

Creative freedom with corner sliding doors (SLV) – for angles between 90° and 270°

GEZE offers the perfect technical solution for the simple movement of corner sliding doors: The Slimdrive SLV drive – with an overall height of only 7 cm of course – is used wherever a special extravagant design is required or the entrance area has to follow certain architectural requirements. If the Slimdrive version SLV-FR is used, the corner sliding door can also be used on escape and rescue routes.



Trendpark, Neckarsulm, Germany (photo: Dirk Wilhelmy)

GEZE Slimdrive SL inclined

Extravagant appearance and perfect integration in inclined glass façades

The GEZE drives for inclined sliding doors are ideal for angled glass façades in post-rail constructions. These sliding doors are used on 2-leaf doors and allow opening widths of up to 2500 mm. Inclined sliding doors are enclosed in a frame and combine a sophisticated appearance with unusual application. They are suitable for angles of up to 9.9°. Larger angles available on request.



Villa Soravia, Millstatt, Carinthia, Austria (photo: Helmut Kolaric)

SPECIAL FUNCTIONS ESCAPE AND RESCUE ROUTES

Redundant sliding doors for escape and rescue routes with locked exit only function (FR-LL)

Protected against forced opening from the outside through permanent locking with duplicate processing

This GEZE solution allows door systems on escape and rescue routes that are set in the "Exit only" (one-way) mode of operation to be locked via the intelligent control unit and night locking system. This increases the protection of the door against unauthorised opening from the outside. This type-tested FR-LL variant is ideal for use in areas where the exit only mode of operation is to be used over a longer period. FR-LL sliding doors are used especially in banks, theatres and universities.

This variant can be realised using the following drive series: Slimdrive, ECdrive T2 and Powerdrive.



Sparkasse, Ulm, Germany (photo: Nikolaus Grünwald)

SPECIAL FUNCTIONS ESCAPE AND RESCUE ROUTES

Redundant sliding doors for escape and rescue routes in both directions (FR-DUO)**For public buildings with several escape routes**

This GEZE solution for special applications can be used in public buildings. Depending on how the rooms or building sections are used, it is often necessary for escape routes to run in both directions through the door. The type-tested GEZE automatic sliding door can be used as an emergency exit in both directions by using two monitored movement detectors on both sides. FR-DUO sliding doors are used especially in office buildings, airports and railways stations.

This variant can be realised using the following drive series: Slimdrive, ECdrive T2 and Powerdrive.



Cafe Luitpold, Munich, Germany (photo: Robert Sprang)

SPECIAL FUNCTIONS ESCAPE AND RESCUE ROUTES

Redundant sliding doors for locked escape and rescue routes (FR-RWS)

Additional locking with duplicate processing system and redundant emergency opening key

With the FR-RWS variant for automatic GEZE sliding doors, the door system can be adjusted by an intelligent control unit and monitored locking system in such a way that it is only possible to pass through the door on request. In the event of a power failure or other problems, the door reliably opens the escape route. FR-RWS sliding doors are used particularly in airports, railway stations, nursing and care homes.

This variant can be realised using the following drive series: Slimdrive, ECdrive T2 and Powerdrive.



Airport, Cologne-Bonn, Germany (photo: Martin Jakob)

SPECIAL FUNCTIONS ESCAPE AND RESCUE ROUTES

Sliding doors for escape and rescue routes according to CO48 (France)**Emergency opening using rubber cord**

In the event of a power failure, the door can be opened once via the built-in rubber cord. CO48 sliding doors with escape route requirement are used in France and other regions where this solution is recognised.

This variant can be realised using the following drive series: Slimdrive, ECdrive T2 and Powerdrive.



Grottes de Lascaux, France (photo: Jean-Luc Kokel)

Accessible toilet

Accessible toilets must be designed in such a way that people with all sorts of different handicaps can use the facilities without needing help. GEZE sliding door drives provide an indispensable service for this application, and guarantee a high level of convenience.

Functional description

The door opens automatically after the elbow switch on the outside of the toilet has been pressed, and closes automatically after the set hold-open time has passed. When the push button is activated inside the toilet cabin, the system is switched to the exit only mode of operation, which means the outer push button can no longer open the door. The lights are also activated, indicating that the toilet is occupied. The drive keeps the door locked in the closed position by means of motor power. Pressing the "internal push button" again switches the mode of operation back to automatic. The OCCUPIED signs go out. The door opens and the "external push button" is cleared again.

A WC alarm can be triggered via an additional external signal transmitter (horn/light) if the system is locked for longer than 30 minutes. This signal can be displayed in a central position (gate). As an option, the message can be outputted as a potential-free contact to a nurse-calling system.

In the event of a power failure, the door can always be opened using the emergency open button. Light curtains monitor the passage area on the inside and outside (two units) as well as the sliding door's travel path in the "open" direction.

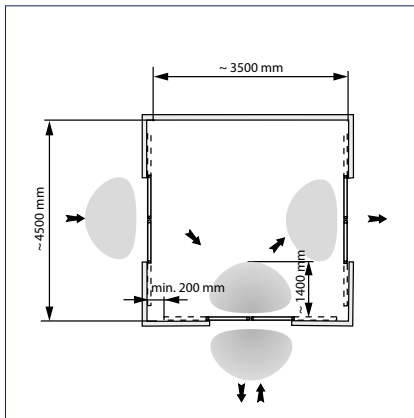


- 1 = Elbow switch (inside and outside)
- 2 = "Occupied" indicator light
- 3 = Emergency-stop switch (recommended installation height: 1600 mm)
- 4 = Active infrared light curtain
- 5 = Emergency call pull switch
- 6 = Programme switch with key switch
- 7 = Sliding door leaf ISO/toughened safety glass on site, fine-framed with satin finish foil, alternatively wooden leaf
- 8 = Side panel

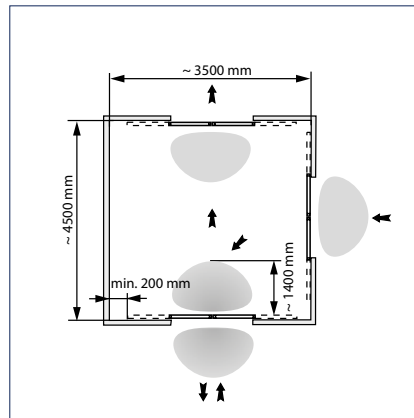
Vestibule systems

Vestibule systems are used to avoid draughts and reduce heat exchange. Preferably only one door should be opened.

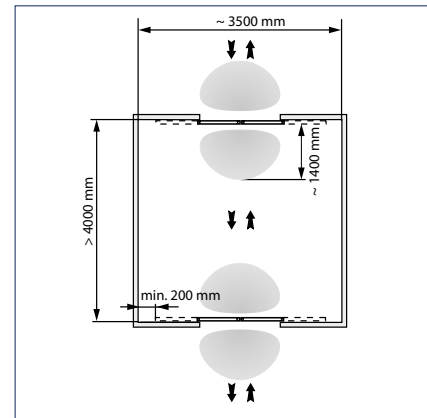
Direction-detecting radar movement sensors only activate the door when people move towards it. This means the door closes more quickly behind people. A separate programme switch is compulsory for door systems in escape and rescue routes.



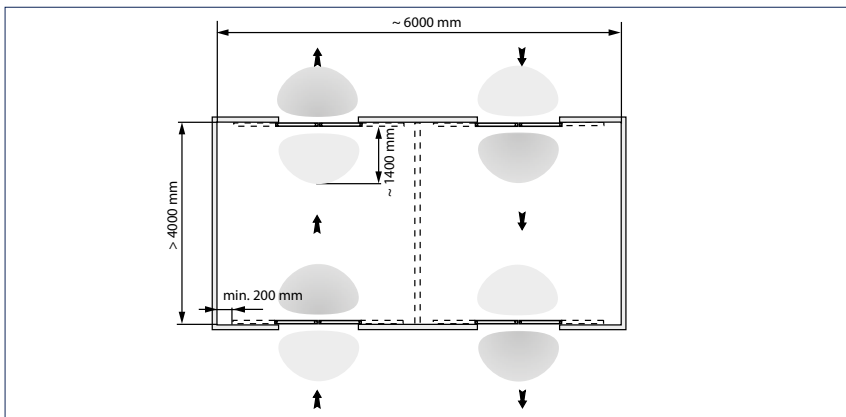
Combination example 1
 grey = Detection area



Combination example 2



Combination example 3



Combination example 4

Sliding door fittings

Complete creative freedom thanks to innovative fitting systems

GEZE supplies the following fitting variants for sliding door systems:

ISO glass fine-framed

Attractive door leaves with an extremely slim aluminium frame. They combine the advantages of the frame (e.g. seals) with an inconspicuous design.

MONO glass fine-framed

Same frame as with the ISO variant, but with one single glass pane made of 10 mm ESG or VSG.

VSG = Verbund-Sicherheits-Glas (laminated safety glass)

ESG = Einscheiben-Sicherheits-Glas (toughened safety glass)

GCprofile Therm

Thermally separated profile system in fine-framed design for a sophisticated appearance. For installation situations where special emphasis is placed on high energy efficiency, i.e. the lowest possible heat loss in winter or cold loss in summer. This profile system is also used when there are increased requirements for the tightness of the sliding door system. It is particularly suitable for exterior doors that are exposed to weather conditions and for interior doors that have to meet increased demands for sound insulation.

Toughened safety glass clamping profile

Profile system for 10 mm or 12 mm toughened safety glass. The glass pane is clamped in place near the top. Additional aluminium profiles at the sides and bottom ensure tightness, floor guide and compatibility with DIN 18650.

All-glass system (GGS)

All-glass design fittings for single point fixing offer maximum transparency. All the visible fittings are made of solid stainless steel.

Integrated all-glass system (IGG)

The profiles and the fitting system are integrated invisibly between the panes – without protruding or visible parts on the glass surface.

Frame leaf (provided by customer)

The drive can be combined with door leaves made of a wide range of different frame profile systems, also thermally separated.

Wooden leaf (provided by customer)

The drive can be combined with door leaves provided by customer made of a wide range of materials e.g. wood.

Hermetic leaf

Use in areas with increased hygiene requirements, see GEZE Hygienic Doors on our website.

Fitting variants

	ECdrive T2	SL NT	Powerdrive PL	Slimdrive SLT	Slimdrive SL RD	Slimdrive SL BO	Slimdrive SL SF
ISO glass fine-framed	•	•	•	•	•	•	•
MONO glass fine-framed	•	•	•	-	•	-	•
GCprofile Therm, thermally separated profile system fine-framed	•	-	-	-	-	-	-
Toughened safety glass clamping profile	•	-	•	-	-	-	-
All-glass system (GGS)	-	•	-	-	-	-	-
Integrated all-glass system (IGG)	-	•	-	•	-	-	-
Frame leaf (provided by customer)	•	•	•	-	-	-	-
Wooden leaf (provided by customer)	•	•	•	-	-	-	-
Hermetic leaf	•	-	•	-	-	-	-

• = YES

- = NOT AVAILABLE



ISO glass fine-framed



MONO glass fine-framed



GCprofile Therm



Toughened safety glass clamping profile



All-glass system (GGS)



Integrated all-glass system (IGG)



Frame leaf (provided by customer)



Wooden leaf (provided by customer)



Hermetic leaf

Operation of automatic sliding doors

Programme switches for selecting the mode of operation for automatic sliding doors

GEZE offers programme switches for a wide range of individual demands. The switches are suitable for universal use – for surface-mounted or flush-mounted installation. The following switch types are available:

Display programme switch (DPS)

Keypad programme switch (TPS)

Mechanical programme switch (MPS)

The following modes of operation can be set:

“Hold open”

The door moves to the OPEN position and remains open. Movement detector or opening push button are deactivated.

“Night”

The movement detectors are switched inactive, the door closes.

Option: The door leaves are locked electrically to prevent forced opening.

“Exit only” (one-way)

The door only opens and closes when someone goes out from the inside.

The movement detector outside is switched inactive, the one inside is switched active.

“Automatic”

The door opens as soon as it is activated via the movement detector or keys, and closes after a certain time that can be individually adjusted. Safety sensors protect the leaves' travel path. If there is someone in the door opening, the door will not close.

“Reduced opening width”

The door opens only part of the possible opening width (can be set). In emergency exits, the reduced opening width must be at least as large as the required escape route width. The reduced opening width may not be less than 30 % of the opening width.

“OFF”

Drive and sensors are switched off, the door leaves can be moved manually.

Protection of the programme switches

Automatic sliding doors in escape and rescue routes must be secured against operation by unauthorised people. The mechanical programme switch (MPS) is also available in a lockable version. The display programme switch (DPS) and keypad programme switch (TPS) can be combined with a key switch. Alternatively, these programme switches can be secured using a code.



Display programme switch (DPS)



Keypad programme switch (TPS)



Mechanical programme switch (MPS)

Automatic activation

Reliable activation with GEZE sensors

Combined detectors

Combined detectors are radar movement detectors using an infrared light curtain. Activation and protection are integrated in the sensor, reducing installation efforts. Individual attachment possibilities through wall, ceiling or integrated ceiling recess installation provide lots of design freedom. The use of a remote control guarantees quick and easy commissioning. The sensor is activated reliably on the basis of direction detection and cross-traffic fade-out. Slow movements can be detected thanks to the "slow motion detection" feature. The protection area can be configured as required. Combined detectors for escape and rescue routes offer maximum safety thanks to the integrated self-monitoring function.

Radar movement detector

Radar movement detectors register all objects that move within the radar field. All movements within the radiation range cause a time-delayed reflection which is forwarded as a door opening signal. The pre-programmed convenience setting of the GEZE radar movement detectors ensures they can be put into operation quickly. Automatic configuration is possible via keys or a remote control. Reliable detection is achieved with a clearly defined radar field. Energy can be saved through detection of people's direction of movement. Unwanted door opening is avoided since cross-traffic can be faded out.



GC 363 combined detector



GC 365 combined detector



GC 304 radar movement detector

Manual activation

Push button

GEZE push buttons for the wireless activation of doors – reliable, convenient and safe at the push of a button.

Capacitive LED sensor button

The design-oriented and sturdy LED sensor button makes intuitive and straightforward operation possible. No great efforts are required for activation – touching the button slightly is sufficient. Suitable for indoor and outdoor use, the LED push button can be recognised easily in the dark thanks to the blue LED lighting. In addition, the sensor has Braille lettering on it. An acoustic and visual signal signals activation through the push button. The push button is waterproof, impact-resistant and vandalism-proof. This makes it very well suited for outdoor use or installation in the floor.

Non-contact proximity switch

Open doors in a flash: With the GC 306, interior doors without a haptic perception requirement can also be activated cleanly and comfortably. The sensor ensures bacteria-free access to toilets, for example, or germ-free conditions in hotel kitchens, swimming pools and doctors' surgeries. The encoder is installed within reach and detects persons and objects accurately – irrespective of the direction of movement – both in the immediate vicinity of only 10 cm and at a distance of 50 cm. The different scanning ranges can be optimally adapted to existing environmental conditions and the interests of the user groups. The non-contact sensors offer a high level of operating comfort – people only need to approach them to trigger the automatic opening mechanism – and the advantage of absolute hygiene. The optimum system structure permits simple and time-saving installation in the flush mounted socket.

Wireless activation

GEZE remote controls are used for wireless activation of doors and windows as a multi-channel solution. For every additional channel, an additional electrical device or function can be switched at the push of a button. Thanks to the very small size of the wireless modules, remote controls can easily be integrated in the drive or in a flush mounted socket. They can also be clipped directly into the elbow switched and installed without wires on glass.



Push button



LED sensor button



GC 306 non-contact proximity switch



Wireless activation



Plastic elbow switch



Elbow switch stainless steel IP65

Electronic protection

Active infrared light curtain

GEZE light curtains are used to protect posts, main and secondary closing edges for both internal and external applications. The light curtains have an invisible and non-contact protective device. Precise detection is possible through a clearly defined field, the size of which can be adjusted. Individual applications allow the use of light curtains as safety sensors or opening impulse generators.



GC 339 active infrared control light curtain



GC 341 active infrared control light curtain

Mechanical protection

Protective leaf

Protective leaves are used on escape and rescue routes if it is not possible to secure the secondary closing edges using light curtains. Automatic sliding doors on escape and rescue routes must be able to be opened at any time.

Safety leaf

Safety leaves are used to protect the cavities behind automatic sliding doors in post-rail constructions.



Protective leaf



Safety leaf

Locks

GEZE Lock M hook bolt lock

The new GEZE Lock M is a manual hook bolt lock for the Slimdrive SL NT and ECdrive T2 sliding door systems. This high-quality locking mechanism is invisibly built into the vertical profile of the door leaves, allowing the door to be locked and unlocked quickly and reliably. The door can be locked and unlocked from the inside or outside using a key in the lock which is installed at a convenient height. The lock has a Euro profile cylinder with 3, 6 or 9 keys with the installation length 32 mm (16/16). If standard construction lengths such as 60 mm (30/30 Euro-profile double cylinder) or 40 mm (30/10 Euro-profile half cylinder) are used, danger areas emerge on the basis of the surviving cylinder, so that a restriction of the opening width is necessary. The Euro profile cylinder can survive without restrictions if no protective leaves are available on the inside. As an option, GEZE can provide a pushing rosette for standard lock cylinders for installation on the drive side / inside. The extremely sturdy GEZE Lock M provides excellent protection against vandalism and unauthorised access.

GEZE Lock A hook bolt lock

The new GEZE Lock A is an automatic hook bolt lock for the Slimdrive SL NT and ECdrive T2 sliding door systems. This high-quality single or two-point locking mechanism allows the door to be locked and unlocked quickly and reliably. The locking motor is invisibly integrated into the vertical profile of the door leaves. The sliding door control unit makes parameter setting and control easy. The manual emergency unlocking facility allows the door to be opened from the inside at any time in the event of a power failure.



GEZE Lock M hook bolt lock



GEZE Lock M hook bolt lock installed



GEZE Lock A hook bolt lock



GEZE Lock A hook bolt lock installed

Toothed belt locking

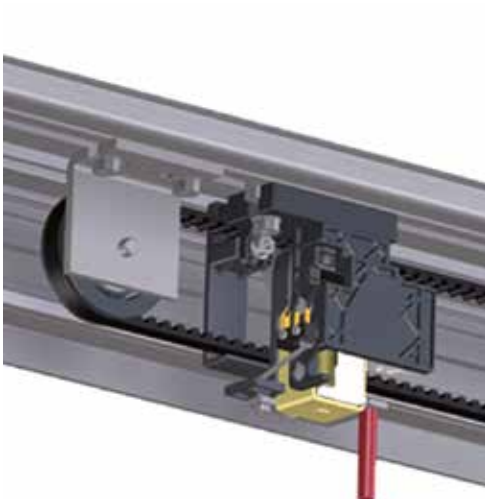
This electromagnetic two-stages locking system ensures more safety, because it stays locked even without electric current. Manual emergency unlocking is possible at any time. Typical for this type of locking is permanent monitoring by the control unit. Up to two contacts for external applications (e.g. alarm systems) can be integrated as an option. Thanks to the free choice of positioning in the drive, the toothed belt locking is not only easy to install, it also makes special locking functions possible, e.g. locked pharmacy opening of the sliding doors.

Floor lock

The GEZE floor lock is used for the easy locking of door leaves with the fine-framed ISO profile system at floor level. Customary Euro profile cylinders can be used for the floor locks. This means the solution is suitable for optimum integration in closing systems. Operation is manual, with the key, either only from the inside or from both the inside and outside.

Rod locking

Rod locking increases safety and protection against burglary. The multi-point locking – both upwards and in the ground – provides solid resistance against attempts to be levered open. The locking bar is integrated invisibly in the fine-framed ISO profile system. The system can be unlocked both electrically and mechanically. Rod locking can be used in the Slimdrive SL and Slimdrive SLT drives. Escape and rescue routes can also be protected by rod locking.



Toothed belt locking



Floor lock



Rod locking

Service tools

GEZEconnects

Bluetooth is an internationally standardised short-distance radio signal with a range of up to ten metres. The software GEZEconnects makes wireless connection via Bluetooth possible between a computer and the automatic door systems from GEZE. All door system settings can be carried out via an intuitive graphic interface, stored, sent by e-mail and transferred to a word processing programme as a protocol. Diagnosis functions show the most important function parameters of the door system in real time, so that problems are recognised at a glance and can be eliminated. All the pre-settings can be taken over very easily for further door systems. The convenient documentation of commissioning, servicing and diagnosis protocols as well as all statistical data can be downloaded at any time. Password protection to freeze operating parameters and servicing data guarantees there will be no unauthorised modifications.

ST 220

Mobile, handy and straightforward – that is parameter setting for the automatic GEZE door systems using the ST 220 service terminal. Communication and data exchange between the service terminal and the door drive is via an integrated RS485 interface. The large illuminated display is easy to operate thanks to the plain text display. The service terminal is equipped with a readout function for servicing and diagnosis work. Power is supplied via the door system. Password protection to freeze operating parameters and servicing data guarantees there will be no unauthorised modifications.

Note: Changes to parameters on GEZE drives may only be carried out by experts authorised by the manufacturer (GEZE) in accordance with DIN 18650/EN 16005.



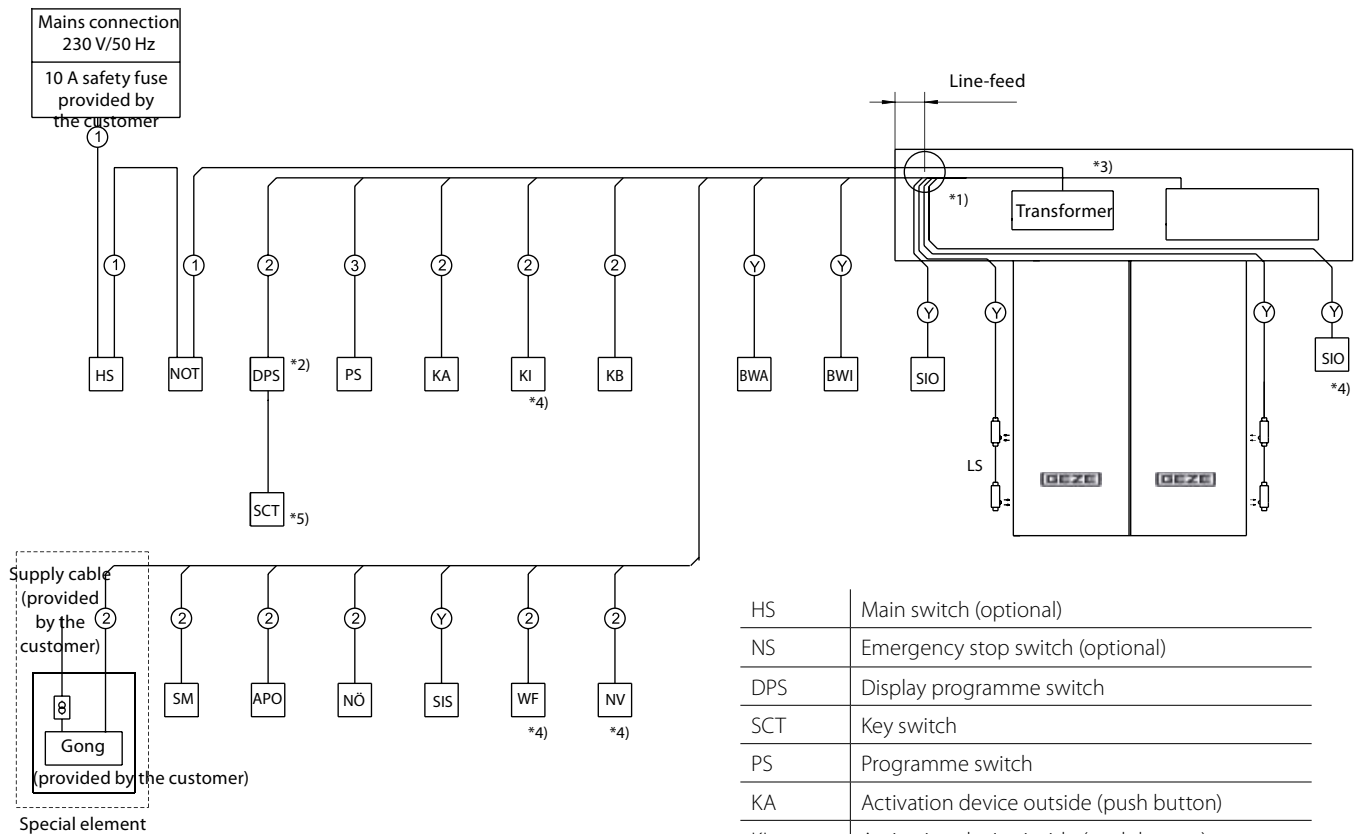
GEZEconnects



ST 220 service terminal

Cable plan sliding door control units

For more detailed information about connection of the activation devices and sensors see the wiring diagram 160924 (English version).



HS	Main switch (optional)
NS	Emergency stop switch (optional)
DPS	Display programme switch
SCT	Key switch
PS	Programme switch
KA	Activation device outside (push button)
KI	Activation device inside (push button)
KB	Activation device "authorized"
BWI/BWA	Movement detector (inside/outside)
SIO	Safety sensor "Open"
SM	Fault indicator Fault lamp or fault horn
APO	Pharmacy opening (only possible in connection with tooth-belt locking)
NÖ	Emergency opening
SIS	Light curtain with movement detector KA or KI
WF	Interlocking door system, vestibule
NV	Emergency lock
LS	Photoelectric barrier *6)

Wire cross-section:

- ① NYM-J 3 x 1.5 mm²
- ② I-Y(ST)Y 2 x 2 x 0.6 mm
- ③ I-Y(ST)Y 3 x 2 x 0.6 mm
- Y supplied by GEZE

Safety

- Wiring in accordance with VDE 0100
- Wiring, connection and commissioning may only be carried out by authorised specialists.
- GEZE does not accept any warranty and service performances in combination with external brands.

Notes

- 1) Cable feed through the side plate or through the track on the left. To protect the cables, avoid sharp edges or use edge protection.
- 2) Cable length max. 100 m
- 3) Allow signal cables to protrude at least 5 m and mains cables at least 2 m out of the wall
- 4) Push button (KI) not permitted at escape and rescue routes
- 5) Optional connection at escape and rescue route control units
Alternatively without key switch: Programme access code on DPS via ST220 or GEZEconnects
- 6) Photoelectric barriers must not be used as the sole protection device in the closing section according to DIN 18650 / EN 16005

References



Slimdrive SL NT, Hotel Schloss Elmau Retreat, Elmau, Germany (photo: Robert Sprang)



Slimdrive SL-FR with side panels, Olgahospital / gynaecological hospital, Stuttgart, Germany (photo: Jürgen Pollak)



Slimdrive SL NT with vestibule, Augustinum, Stuttgart, Germany (photo: Dirk Wilhelmy)



Slimdrive SL NT-FR, Grotte de Lascaux, France (photo: Jean-Luc Kokel)

References



Powerdrive PL-FR, Grosspetertower Zurich, Switzerland, (photo: Lorenz Frey for GEZE GmbH)



Powerdrive PL EI30, Railway Station Zurich Oerlikon, Switzerland (photo: Lorenz Frey for GEZE GmbH)



ECdrive T2 (photo: GEZE GmbH)



ECdrive T2 (photo: GEZE GmbH)

POSSIBLE AREAS OF APPLICATION FOR GEZE PRODUCTS

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

Door technology	
01	Overhead door closers ID 091586, ID 091587
02	Hold-open systems ID 091586, ID 091587
03	Integrated door closers ID 091592
04	Floor springs and all-glass fittings ID 091590
05	Sliding fitting systems and linear guides ID 123180, ID 004477
Automatic door systems	
06	Swing doors ID 143725
07	Sliding, telescopic and folding doors ID 143059
08	Curved sliding doors ID 134398
09	Revolving doors ID 131929
10	Activation devices and sensors ID 142648
Smoke and heat extraction and window technology	
11	Fanlight opening systems ID 127786
12	Electric opening and locking systems ID 152257
13	Electrical spindle and linear drives ID 152257
14	Electric chain drives ID 152257
15	Smoke and heat extraction systems (RWA) ID 152257
Safety technology	
16	Emergency exit systems ID 132167
17	Access control systems ID 131413
18	Panic locks ID 132847
19	Electric strikes ID 146453
20	Building management system ID 132167
Glass systems	
21	Manual sliding wall systems (MSW) ID 104164
22	Integrated all-glass systems (IGG) ID 090108



POSSIBLE AREAS OF APPLICATION FOR GEZE PRODUCTS



Door technology

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.

Automatic door systems

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 designed to meet individual needs. Special constructions are created in our own in-house business unit.

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 protection against theft in escape and rescue routes 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

With the building system, system solutions for door, window and safety technology from GEZE can be integrated into building safety and control. 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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