GEZE SLIDING, TELESCOPIC AND FOLDING DOOR SYSTEMS

VERSATILE AND COMFORTABLE

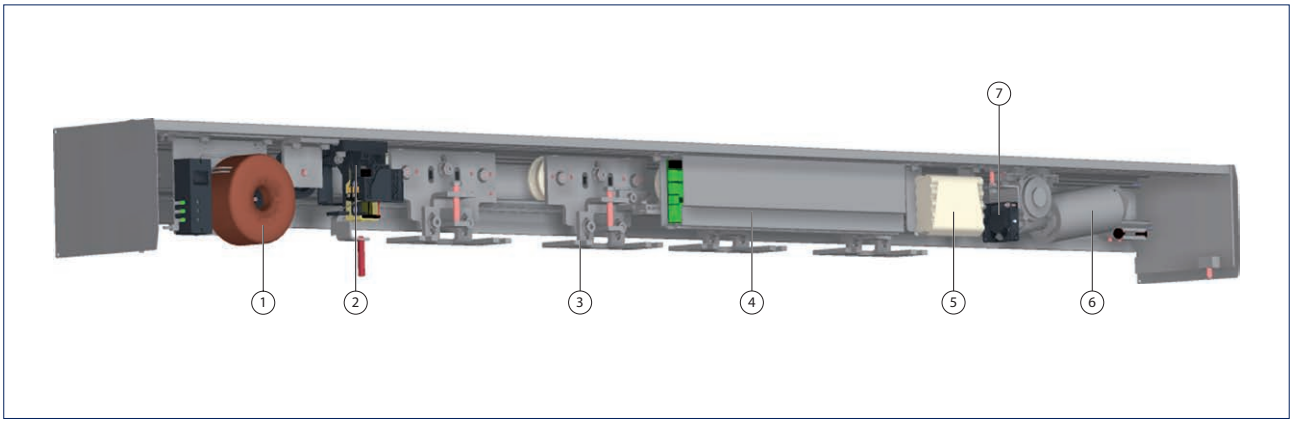
Cover photo: Tarık Kaan Muşlu, photo on page 2: Siegelwerk GmbH

GEZE POWERDRIVE PL

GEZE Powerdrive PL

Drive system for automatic linear sliding doors with large, heavy leaves

The trademarks 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 emergency exit route version up to 160 kg). Optimum running characteristics and low wear thanks to compatible profiling of the rollers and running rail allows use in areas with a high through-traffic volume.



1 = Transformer
2 = Locking
3 = Roller carriage
4 = Control
5 = Battery
6 = Motor
7 = Fan

Drive components

Technical data	PL	PL-FR
Transformer	Ring core with fuse and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Capacity rating	200 W	
Locking	Toothed belt locking, electromagnetic, bi-stable	
Roller carriage		
Door leaf adjustment vertical	12 mm	
Door leaf adjustment horizontal	40 mm	
Anti-tilt protection	fitted as standard	
Self-cleaning	●	●
Control	DCU1	DCU1-2M
With fault memory	●	●
With memory for statistical data	●	●
Software update possible	●	●
Optional bus interface	●	●
Connection for fire alarm system	●	●
Power supply for peripherals	●	●
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Battery	NiCd, 24 V, 700 mA	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

● = YES
- = NOT AVAILABLE

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 – 3000 mm	
Opening width 2-leaf	800 – 3000 mm	
Passage height (max.)		
Temperature range	-15 – 55 °C	
Enclosure rating	IP 20	
Disconnection from power supply	Main switch in the drive	
Opening speed (max.)	0,8 m/s	
Closing speed (max.)	0,8 m/s	
Hold-open time	0 – 60 S	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	●	●
Automatic reversal when an obstacle is detected	●	●
Pharmacy opening	●	●
Lock function	●	-
Vestibule function	●	-
Automatic opening in the event of a power failure	adjustable	fitted as 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	Open
Automatic opening in the event of a fault	not available	fitted as standard
Approvals	DIN 18650 BGR232 DIN EN ISO 13849 Performance Level D	DIN 18650 BGR232 DIN EN ISO 13849 Performance Level D AutSchR

● = YES
- = NOT AVAILABLE

Fitting variations

Fittings	PL
ISO-glass fine-framed	●
MONO-glass fine-framed	●
ESG clamping profile	●
All-glass system (GGS)	-
Integrated all-glass system (IGG)	-
Frame leaf (provided by customer)	●
Wooden leaf (provided by customer)	●
Fire protection leaf T30 (Hörmann)	-

● = YES
- = NOT AVAILABLE

Calculations for Powerdrive PL

Drive length and glass dimensions

Calculation of the drive length AL in mm*

Powerdrive	PL	PL-FR**
2-leaf	ÖW = 800 - 3000, AL = 2 x ÖW + 100	ÖW = 800 - 3000, AL = 2 x ÖW + 100
1-leaf	ÖW = 700 - 3000, AL = 2 x ÖW + 65	ÖW = 700 - 3000, AL = 2 x ÖW + 65

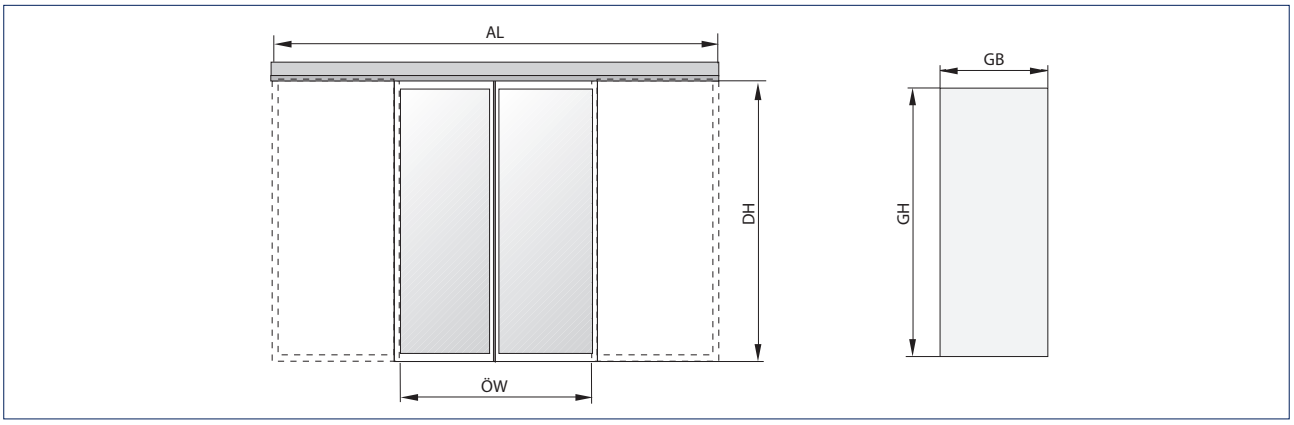
* Minimum overall length of the system with ISO-glass profile system
** Request drawing for FR variations (FR-RWS, FR-LL)!

Note:
Opening widths of emergency route sliding doors < 1000 mm are only permitted in exceptional cases.
For external installations with an opening width of more than 2000 mm, a continuous floor guide is recommended.
The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimension in mm

		ISO-glass with ALu-NSK	ISO-glass with rubber-NSK	ESG
Leaf width	1-leaf	ÖW + 40	ÖW + 35	ÖW + 35
	2-leaf	ÖW /2 + 40	ÖW / 2 +35	ÖW / 2 +35
Leaf height	with hood 150 mm	DH		
	with hood 200 mm	DH + 50		
Glass width	1-leaf	ÖW	ÖW	ÖW + 9
	2-leaf	ÖW / 2	ÖW / 2	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

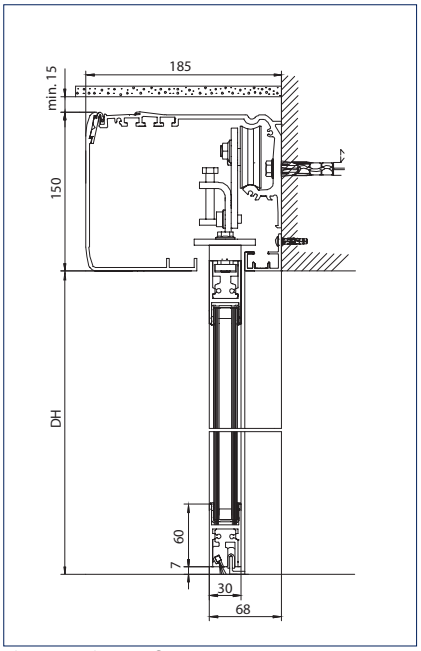


AL = Drive length
DH = Passage height
GB = Glass width
GH = Glass height
ÖW = Opening width

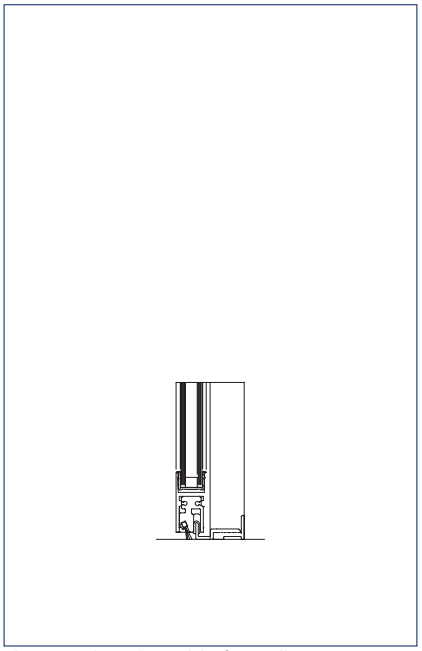
GEZE Powerdrive PL

ISO/MONO-glass fitting

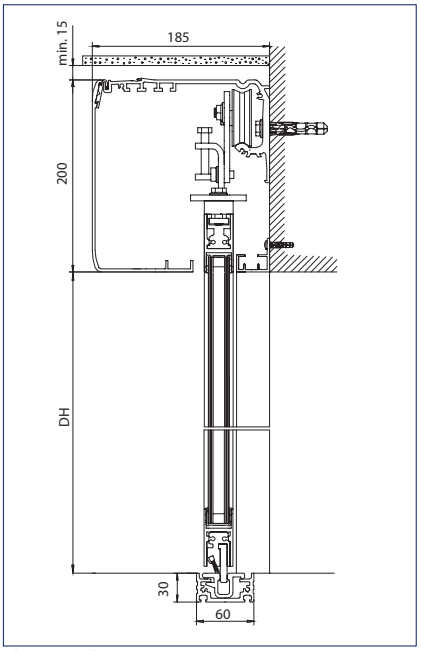
Door leaf
Drawing no. 70506-ep01



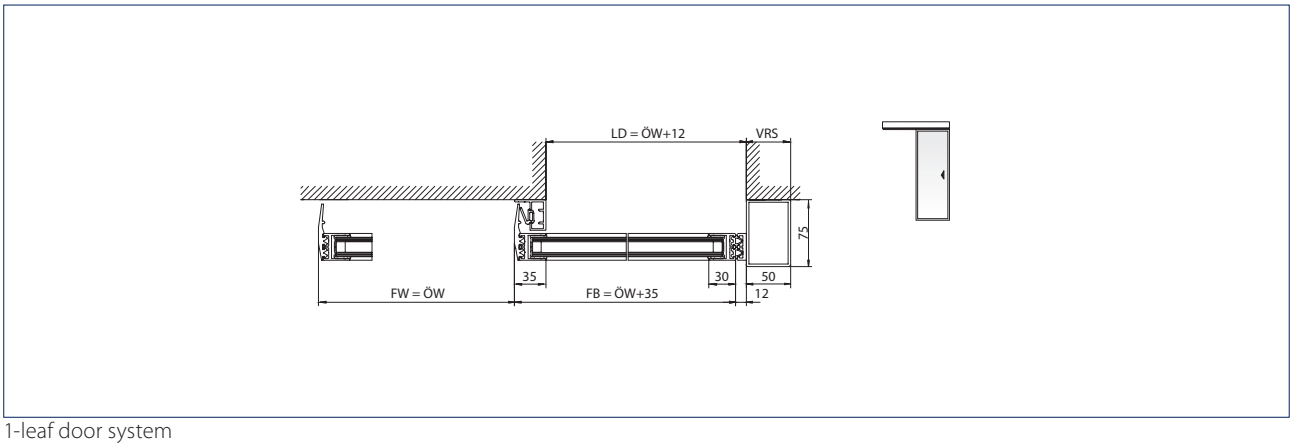
Floor guide: For floor mounting
DH = Passage height



Floor guide: Adjustable for wall mounting

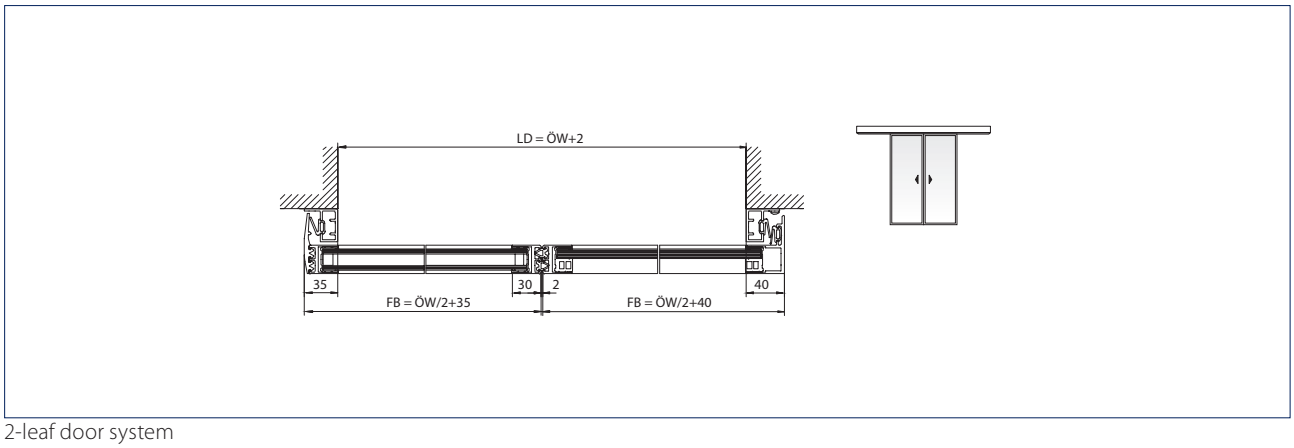


Floor guide: Continuous
DH = Passage height



1-leaf door system
LD = Clear passage
FW = Travel path
FB = Leaf width
ÖW = Opening width
VRS = Drive extension right

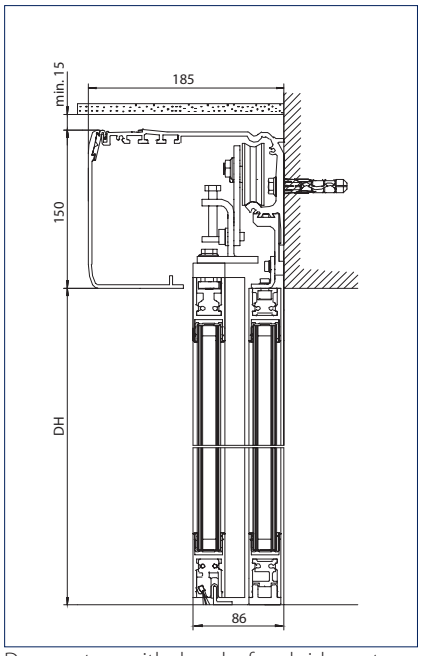
GEZE POWERDRIVE PL



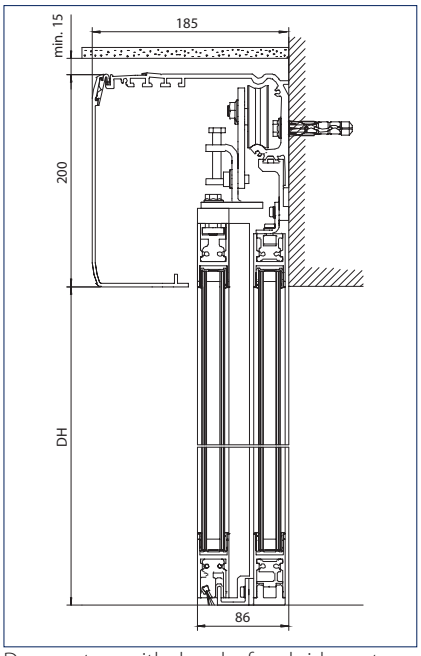
2-leaf door system
LD = Clear passage
FB = Leaf width
ÖW = Opening width

Door leaf and side parts

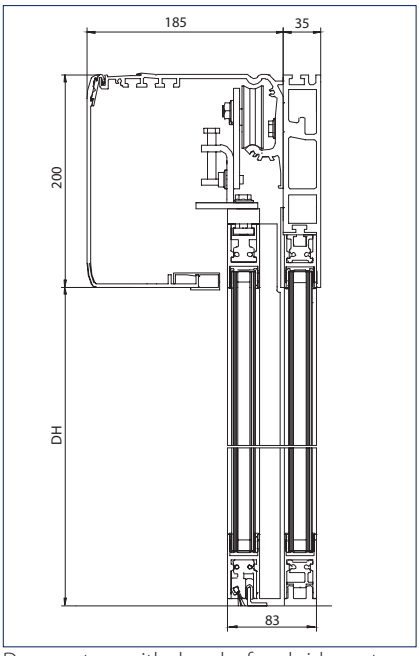
Drawing no. 70506-ep02



Door system with door leaf and side parts under drive
DH = Passage height



Door system with door leaf and side parts under drive
DH = Passage height



Door system with door leaf and side parts under carrier
DH = Passage height

GEZE ECdrive

GEZE ECdrive

Drive system for linear sliding doors in high traffic areas

The linear sliding door system GEZE ECdrive offers numerous convincing benefits at an excellent cost/performance ratio. The drive is suitable for doors in high traffic areas. The ECdrive covers door leaf weights of up to 120 kg and is uncompromisingly reliable. High-quality materials and the latest control technology guarantee high efficiency. Servicing costs are considerably reduced thanks to the self-cleaning roller carriage. The rounded hood in the elegant GEZE design gives the system an attractive appearance.

1 = Transformer
2 = Locking
3 = Roller carriage
4 = Control
5 = Battery
6 = Motor

Drive components

Technical data	ECdrive	ECdrive FR
Transformer	Ring core with fuse and main switch	
Voltage	230 V	
Frequency	50 – 60 Hz	
Capacity rating	150 W	
Locking	Toothed belt locking, electromagnetic, bi-stable	
Roller carriage		
Door leaf adjustment vertical	10 mm	
Door leaf adjustment horizontal	15 mm	
Anti-tilt protection	fitted as standard	
Self-cleaning	●	●
Control	DCU1	DCU1-2M
With fault memory	●	●
With memory for statistical data	●	●
Software update possible	●	●
Optional bus interface	●	●
Connection for fire alarm system	●	●
Power supply for peripherals	●	●
Programmable inputs	3 pc.	
Programmable outputs	2 pc.	
Battery	NiCd, 24 V, 700 mA	
Motor	Gear motor	Double gear motor
Torque	400 Ncm	

● = YES
- = NOT AVAILABLE

Technical data

Product features	ECdrive	ECdrive FR
For 1-leaf door systems	●	●
For 2-leaf door systems	●	●
Height	120 / 150 mm	
Depth	175 mm	
Leaf weight (max.) 1-leaf	120 kg	
Leaf weight (max.) 2-leaf	120 kg	
Opening width 1-leaf	700 – 3000 mm	
Opening width 2-leaf	900 – 3000 mm	
Temperature range	-15 – 55 °C	
Enclosure rating	IP 20	
Disconnection from power supply	Main switch in the drive	
Opening speed (max.)	0,8 m/s	
Closing speed (max.)	0,8 m/s	
Hold-open time	0 – 60 S	
Adjustable opening and closing force (max.)	150 N	
Automatic adaptation to traffic flow	●	●
Automatic reversal when an obstacle is detected	●	●
Pharmacy opening	●	●
Lock function	●	-
Vestibule function	●	-
Automatic opening in the event of a power failure	adjustable	fitted as 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	Open
Automatic opening in the event of a fault	not available	fitted as standard
Approvals	DIN 18650 BGR232 DIN EN ISO 13849: Performance Level D	DIN 18650 BGR232 DIN EN ISO 13849: Performance Level D AutSchR

● = YES
- = NOT AVAILABLE

Fitting variations

Fittings	ECdrive
ISO-glass fine-framed	●
MONO-glass fine-framed	●
ESG clamping profile	●
All-glass system (GGS)	-
Integrated all-glass system (IGG)	-
Frame leaf (provided by customer)	●
Wooden leaf (provided by customer)	●
Hermetic leaf	-
Fire protection leaf T30 (Hörmann)	-

● = YES
- = NOT AVAILABLE

Calculations for ECdrive

Drive length and glass dimensions

Calculation of the drive length (AL) in mm*

	ECdrive	ECdrive-FR**
2-leaf	ÖW = 900 - 3000, AL = 2 x ÖW + 100	ÖW = 900 - 3000, AL = 2 x ÖW + 100
1-leaf	ÖW = 700 - 3000, AL = 2 x ÖW + 60	ÖW = 700 - 3000, AL = 2 x ÖW + 60

* Minimum overall length of the system with ISO-glass profile system
** Request drawing for the variations!

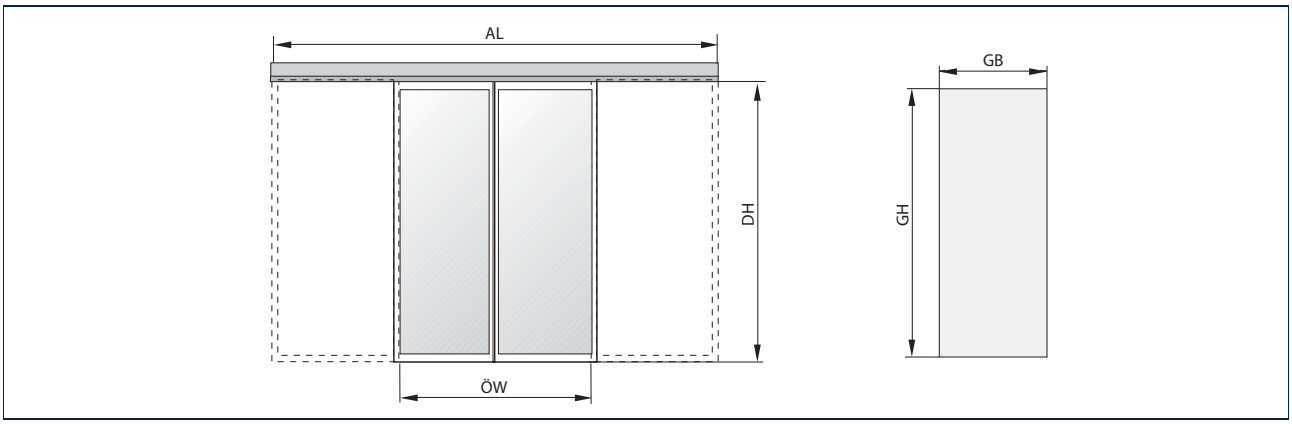
Note:
Opening widths of emergency route sliding doors < 1000 mm are only permitted in exceptional cases.
For external installations with an opening width of more than 2000 mm, a continuous floor guide is recommended.
The minimum opening widths depend on the requirements of building law.

Calculation of leaf and glass dimension in mm

		ISO-glass with Alu-NSK	ISO-glass with rubber NSK	ESG
Leaf width	1-leaf	ÖW + 40	ÖW + 35	ÖW + 35
	2-leaf	ÖW / 2 + 40	ÖW / 2 + 35	ÖW / 2 + 35
Leaf height	with hood 120 mm	DH + 25		
	with hood 150 mm	DH + 55		
Glass width	1-leaf	ÖW	ÖW	ÖW + 9
	2-leaf	ÖW / 2	ÖW / 2	ÖW / 2 + 9
Glass weight		FH - 90	FH - 90	FH - 85
Glass thickness		22	22	10, 12

NSK = secondary closing edge

Note:
max. leaf ratio width to height 1:4

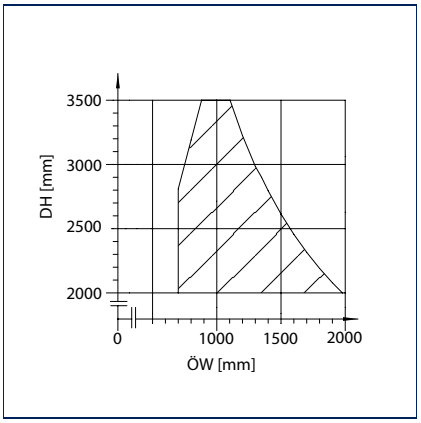


AL = Drive length
DH = Passage height
GB = Glass width
GH = Glass height
ÖW = Opening width

Areas of application ECdrive

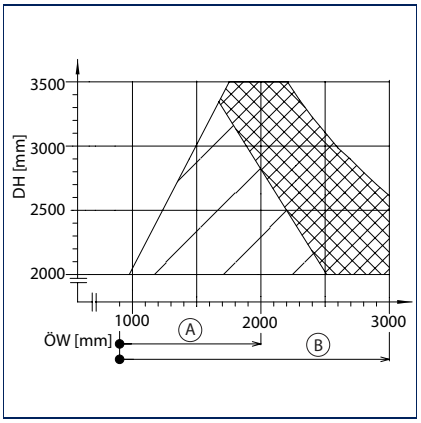
Cantilevered ECdrive ISO-glass fitting

1-leaf



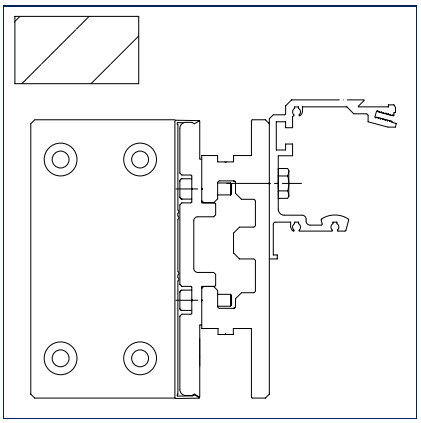
DH = Passage height
ÖW = Opening width

2-leaf

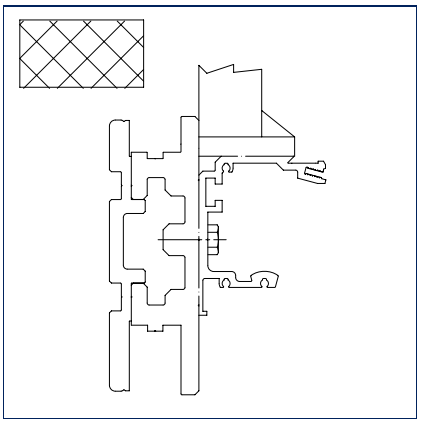


A = Outside area
B = Inside area
DH = Passage height
ÖW = Opening width

Profiles



Standard

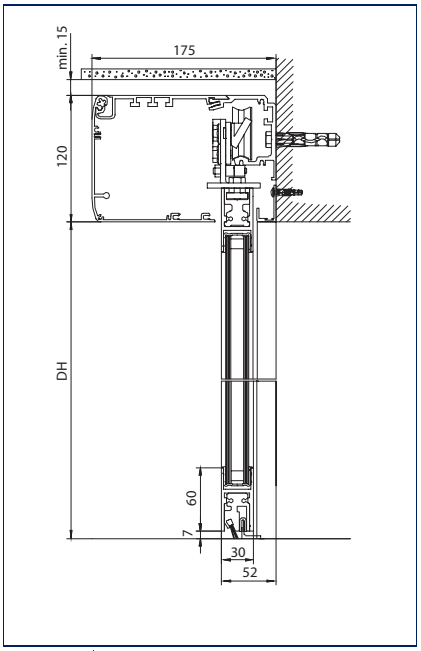


Carrier and running rail additionally suspended from the ceiling

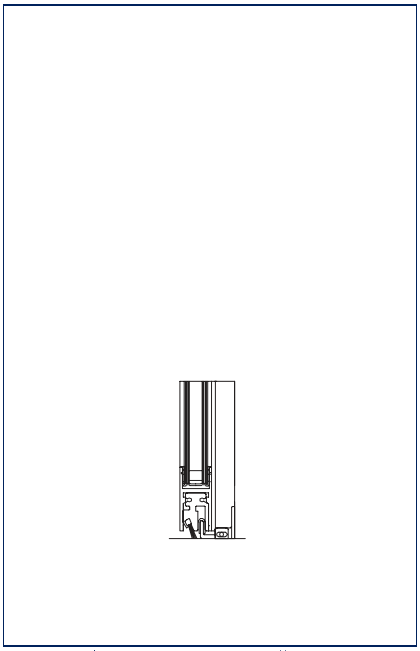
GEZE ECdrive

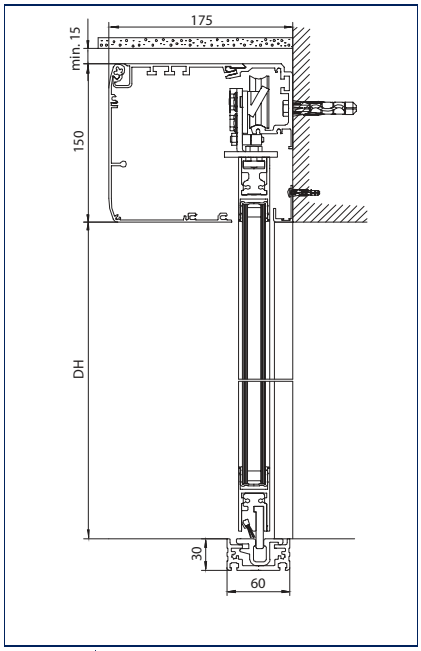
ISO/MONO-glass fitting

Door leaf
Drawing no. 70504-ep01

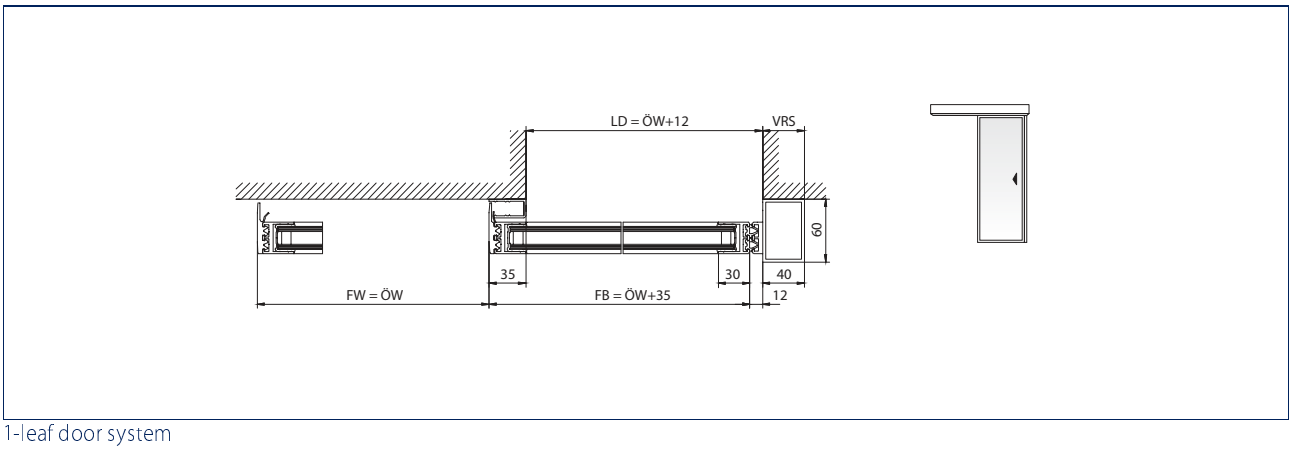


Floor guide: For floor mounting
DH = Passage height


Floor guide: Adjustable for wall mounting



Floor guide: Continuous
DH = Passage height



1-leaf door system
LD = Clear passage
FW = Travel path
FB = Leaf width
ÖW = Opening width
VRS = Drive extension right