GEZE GLASS SYSTEMS



# INTELLIGENCE BETWEEN THE PANES







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## GEZE IGG - solutions for all-glass systems

#### Intelligence between the panes

Glass, besides timber and bricks, is one of the oldest building materials of mankind. Even today glass is still used - with upward tendency -, especially with regards to economical and ecological aspects. More than ever we take advantage of the outstanding physical properties of glass such as hardness, elasticity and the coefficient of heat transmission. Thus new and transparent living areas are created for people, animals and plants - without the need to make concessions to flexibility, protection, warmth or comfort. Modern production processes and hardware systems take an important share in this development.

GEZE IGG means that the profiles and hardware system are invisibly integrated between two panes – without any protruding visible parts on the glass surface. A perimeter printing on the interior side of the panes makes the fittings completely invisible to the human eye. Wherever fittings and profiles spoiled the aesthetic appearance of glass elements in the past, GEZE IGG will allow freedom in design in future. The continuous design of façades can now be realised without incongruity of style, irrespective of whether sliding partitions, sliding doors, single-action or double-action doors are planned.



MSW with IGG, Pavillon Lapidarij Novigrad, Istra, Croatia (photo: Robert Les)

#### Area of application

- · For interior and exterior installations
- Automatic and manual sliding doors
- Manual sliding wall systems
- Automatic and manual swing doors

#### Structure of the elements

- Exterior pane (types of glass: toughened safety glass ESG-H or laminated safety glass VSG of ESG)
- Spacer
- · Holding profiles for the fittings
- Interior pane (types of glass: toughened safety glass ESG-H or laminated safety glass VSG of ESG)
- Edge printing of the panes (min. width 30 mm)
- Perimeter printing in the gap between the panes
- Gap between the panes SZR 27 mm



## GEZE Slimdrive SL NT/SL NT-FR and SLT/SLT-FR with IGG

### Advanced design owing to optimised technology

GEZE Slimdrive SL NT stands for optimised sliding door technology. With a construction height of only 7 cm this driving system convinces by perfection, requiring only a minimum of space: control with 16 bit high-performance micro processor, various setting possibilities, high reliability with all functions being maintained etc.



Slimdrive SL NT-FR with IGG, Zürich Oerlikon station, Switzerland (photo: Lorenz Frey)

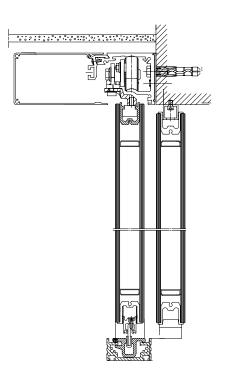
#### **Product features**

The reduction of the technology to the essential moreover offers considerable ecological and economical advantages:

- Environmentally friendly due to economical and ecological use of material and energy
- Tailored-to-size system production
- Simple, quick installation and adjustment
- Safe maintenance diagnosis

The Slimdrive SL NT (SLT for sliding doors with telescopic opening) is a fully modular, all-aluminium construction system and consists of mounting profile, running rail profile, cover and side parts.

The drive simply disappears in the façade thus creating transparency and consequent aesthetics. Double nogging and mullion profiles are a thing of the past. What you get instead: frameless door leaves – without any compromises.





## Simple installation – flexible use

All components and the cover can be fitted from behind. The Slimdrive SL NT and SLT drives are perfectly suitable for installation in nearly all common post-rail-façade profiles..

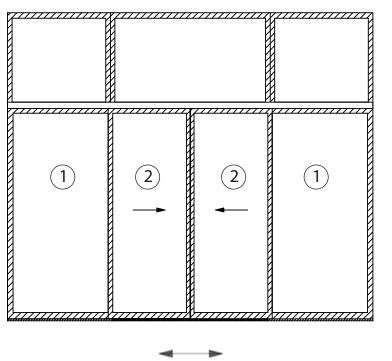
Slimdrive SL NT-FR and SLT-FR are approved for the use on escape and rescue routes

## **TECHNICAL DATA**

		Slimdrive SL NT/SL NT-FR	Slimdrive SLT/SLT-FR
	1-leaf	max. 3000 mm	-
Opening width	2-leaf	max. 3000 mm	max. 3000 mm
	4-leaf	-	1600 – 3600 mm
	1-leaf	125 kg	-
Max. leaf weight	2-leaf	2 x 125 kg	2 x 80 kg
	4-leaf	-	4 x 80 kg
Opening speed		max. 0.8 m/s	max. 0.8 m/s
Closing speed		max. 0.8 m/s	max. 0.8 m/s
Door leaf with IGG system	with concealed fittings		

IGG limits of application		
	Fixed panel	200 kg
Max. weight of element	Sliding door leaf Slimdrive SL NT	125 kg
	Sliding door leaf Slimdrive SLT	80 kg
	Process-inherent	1:5
Max. side ratio	Optimum running smoothness Slimdrive SL NT	1:3
	Max. for Slimdrive SL NT and SLT	1:4
Door leaf height		up to approx. 3000 mm
Max. admissible deflection		8 mm or 1/200
Chan dand unliver	Weight per unit area for 2 x ESG 6 (IGG standard)	34 kg/m <sup>2</sup>
Standard values	Weight per unit area for 2 x ESG 8 (1 side > 3000 mm)	44 kg/m <sup>2</sup>

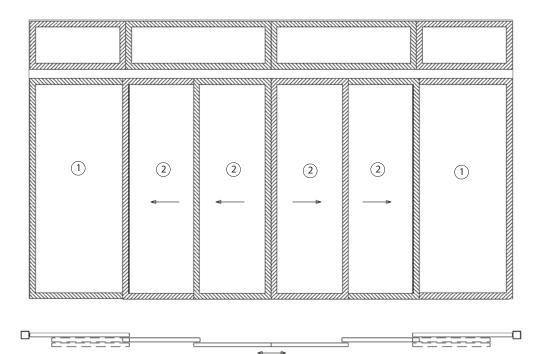
## Slimdrive SL NT with IGG







## Slimdrive SLT with IGG



1 = Fixed panel

2 = Sliding panel



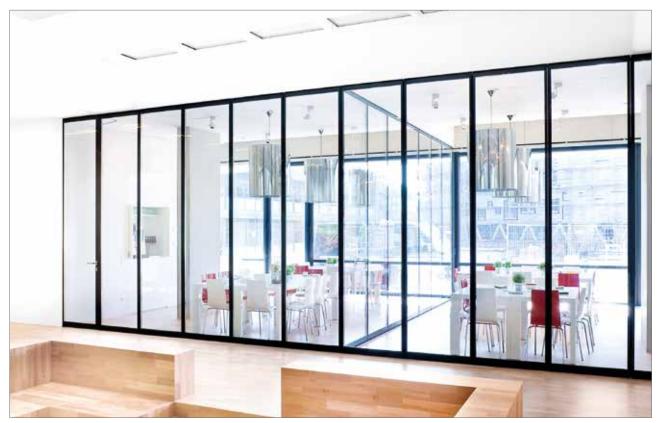
Slimdrive SLT with IGG, Café Luitpold Munich, Germany (photo: Robert Sprang)

# GEZE IGG

## GEZE manual sliding wall system MSW with IGG

#### **Transparent partition wall**

GEZE MSW is the manual sliding wall system for transparent separation of rooms by means of moveable glass elements. A flexible modular system and the integration of leaf elements of different functions offer architects and designers the freedom to realise individual sliding walls. GEZE MSW offers optimum solutions for innovative all-glass design for pretentious building projects.



MSW mit IGG, Ronald McDonald Elternhaus Tübingen, Deutschland (photo: Lothar Wels)

#### **Product features**

- Excellent running proterties and almost silent operation due to the high-quality precise roller bearings
- Minimal use of force required to manually slide the glass elements
- Fitting elements integrated in the gap between the panes
- Max. leaf weight 150 kg (with dual roller carriage)
- Suitable for door leaf heights tup to 3500 mm and widths up to 1200 mm (swing doors) resp. 1500 mm (sliding doors)
- Surrounding edge printing: horizontal min. 50 mm, vertical min. 30 mm
- Standard composition of panes: 2 x 6 mm toughened safety glass ESG-H, gap between the panes 27 mm
- Types of glass: ESG-H 6 mm (green glass) and ESG-H 6 mm (clear glass) for installation heights up to 3000 mm; ESG-H 8 mm (green glass) and ESG-H 8 mm (clear glass) for installation heights from 3000 mm to 3500 mm, other glass combinations possible (e.g. laminated safety glass VSG)
- Sealing: horizontally brush seals, vertically silicon seals
- Continuous floor guide as an option

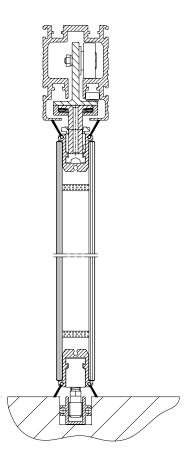
#### Area of application

- · Light and transparent room partitioning in the form of an integrated all-glass system using a modular concept.
- The perfect partitioning wall for use in hotels , congress and shopping centres or airports
- · Combination with fixed panels, double-action, single-action, swing and sliding doors possible



## MSW with IGG





MSW stacking area, Pavillon Lapidarij Novigrad, Istra, Croatia (photo: Robert Les)



MSW with IGG, Pavillon Lapidarij Novigrad, Istra, Croatia (photo: Robert Les)



## GEZE Perlan 140 with IGG

#### Proven, robust and durable

GEZE Perlan 140 is a roller-guided sliding door system suitable for single, multiple and synchronous sliding doors. The elegant, understated design supports any desired spatial effect. The demanding technology, high-quality materials and first-class workmanship means that the sliding doors open with the least amount of force and make Perlan 140 the ideal solution for constant use in heavy frequented living and working areas.



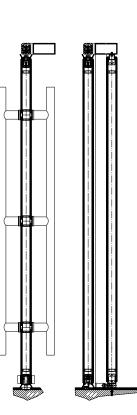
Perlan 140 IGG, JC Decaux, London, Great Britain (photo: GEZE GmbH)

#### **Product features**

- 4 high-quality precision ball bearings
- Optimum load distribution due to triple pendulum suspension
- Precise guiding due to special track design, no lateral contact
- Runner channel of anodised light alloy; hanger bolts and nuts of special steel
- Outdoor installation possible
- · Vertical and lateral adjustment
- Runner channel can easily be adjusted after installation
- Types of glass: toughened safety glass ESG-H 6 mm (green glass), ESG-H 6 mm (clear glass), other glass combinations possible (e.g. laminated safety glass VSG)
- Even possible in combination with SoftStop

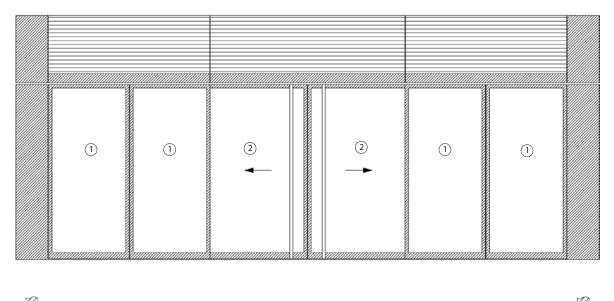
#### Area of application

- For all types of sliding doors: single, multiple leaves and synchronous
- Wall and ceiling mounting
- For doors with a leaf weight of up to 140 kg
- Fixed panel up to 200 kg
- Max. height 2600 mm
- Version with SoftStop possible





## Perlan 140 with IGG

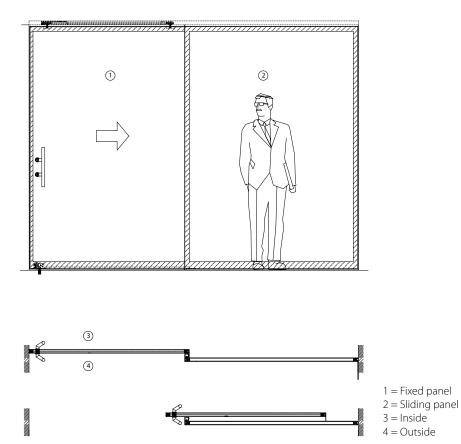




1 = Fixed panel 2 = Sliding panel

## **Standard installation**

The leaves can be fixed to the wall or the ceiling using attachment brackets (hole interval 175 mm). The door is stopped at the top and at the bottom simultaneously by the stop buffer and an additional buffer that is fitted to the centre of the door or at the top.



Integrated all-glass systems **11** 



## GEZE IGG double-action door

## Flexibel to all directions

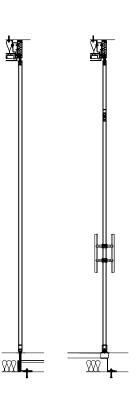
In banks, restaurants and hotels you often need doors that can be opened to both directions. The GEZE IGG double-action door offers the required flexibility and is suitable for every-day use, simultaneously offering high-quality and transparent construction. The double-action doors can be combined with the proven GEZE automatic door opening systems.



IGG double-action door, Minerva Haus Berlin, Germany (photo: Martin Jakob)

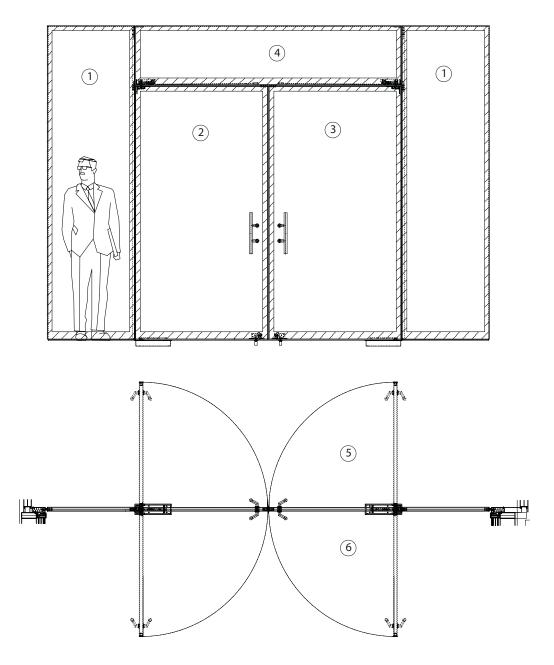
#### **Product features**

- Frameless all-glass element with fittings integrated between the panes (2 x 6 mm toughened safety glass ESG-H, gap between the panes 27 mm)
- Allround perimeter printing
- Dimensions: door width max. 1250 mm, height max. 2600 mm
- Thickness of door leaf approx. 40 mm
- Max. door leaf weight: 120 kg per leaf
- Fixed panel max. 200 kg
- Types of glass: toughened safety glass ESG-H 6 mm (green glass), ESG-H 6 mm (clear glass), other glass combinations possible (e.g. laminated safety glass VSG)
- Finish of spacers of ISO glazing: silver (standard), black or light grey
- Surface of integrated frame: C 35 (black)
- Types of mounting: frame, post-rail structure, wall installation
- With door closer: floor spring TS 500 NV / TS 550 NV





## IGG double-action door



- 1 = Fixed panel 2 = Single-action door DIN L 3 = Single-action door DIN R 4 = Fanlight 5 = Inside

- 6 = Outside



## GEZE IGG single-action door

#### Simply ideal

Whether in public or private buildings: no doors are used more often than single-action doors. The GEZE IGG system allows the construction or even reconstruction of any sort of single-action doors. You are free to choose among a wide range of hinges, locks, handles, automatic closing and opening systems.



IGG single-action door, Graphic Design Museum, Breda, Netherlands (photo: Erwin Kamphuis)

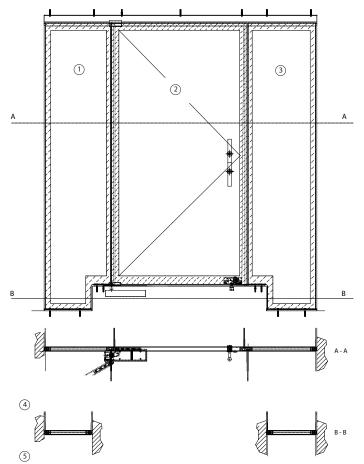
#### **Product features**

- Frameless all-glass element with fittings integrated between the panes (2 x 6 mm toughened safety glass ESG-H, gap between the panes 27 mm)
- With surrounding edge printing. Width of printing depends on fitting options.
- Dimensions: door width max. 1250 mm, height max. 2600 mm
- Thickness of door leaf approx. 40 mm (ESG-H)
- Max. door leaf weight: 120 kg per leaf
- Fixed panel max. 200 kg
- Types of glass: toughened safety glass ESG-H 6 mm (green glass), ESG-H 6 mm (clear glass), other glass combinations possible (e.g. laminated safety glass VSG)
- Finish of spacer of ISO glazing: silver (standard), black or light grey
- Surface of integrated frame: C 35 (black)
- Types of mounting: frame, post-rail structure, wall installation
- With door closer: overhead door closer TS 5000/TS 3000 V, floor spring TS 550 / TS 550 E





## IGG single-action door



- 1 = Fixed panel left 2 = Active leaf DIN L opening to the inside 3 = Fixed panel right 4 = Outside
- - 5 = Inside



IGG on single-action door, Townhouse Ostfildern, Germany (photo: N. Grünwald)



## **GEZE** references



Slimdrive SL with IGG, Krämaren shopping centre, Örebro, Sweden (photo: Torbjörn Bergqvist)



IGG on double-action door with IGG fixed panels, Townhouse Ostfildern, Germany (photo: N. Grünwald)





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



Slimdrive SL-FR IGG, conference centre Würzburg, Germany (photo: Dirk Wilhelmy)



## **GEZE** references



MSW with IGG, Zürich Oerlikon station, Switzerland (photo: Lorenz Frey)



MSW with IGG, Zürich Oerlikon station, Switzerland (photo: Lorenz Frey)





IGG, clinical centre Düsseldorf, Germany (photo: Lothar Wels)



MSW with IGG, H&M Neue Mitte, Bad Vilbel, Germany (photo: Roland auf der Springe)



## GEZE references



MSW with IGG, Pavillon Lapidarij Novigrad, Istra, Croatia (photo: Robert Les)



MSW with IGG, Ronald McDonald Elternhaus Tübingen, Germany (photo: Lothar Wels)





Slimdrive SL with IGG, Krämaren shopping centre, Örebro, Sweden (photo: Torbjörn Bergqvist)



Slimdrive SL with IGG, Graphic Design Museum, Breda, Netherlands (photo: Erwin Kamphuis)

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

## Door technology

01	Overhead door closers ID 091593, ID 091594
02	Hold-open systems ID 091593, ID 091594
03	Integrated door closers ID 091609
04	Floor springs and all-glass fittings ID 091607
05	Sliding fitting systems and linear guides ID 123605, ID 000586

## Automatic door systems

06	Swing doors ID 144785
07	Sliding, telescopic and folding doors ID 143639
08	Curved sliding doors ID 135772
09	Revolving doors ID 132050
10	Actuation devices and sensors ID 142655

#### Smoke and heat extraction and window technology

11	Fanlight opening systems ID 127787
12	Electric opening and locking systems ID 127785, ID 127789
13	Electrical spindle and linear drives ID 127785, ID 127789
14	Electric chain drives ID 127785, ID 127789
15	Smoke and heat extraction systems ID 127785, ID 139075

## Safety technology

16	Emergency exit systems ID 132408
17	Access control systems ID 132158
18	Panic locks ID 132848
19	Electric strikes ID 148666
20	Building management system ID 132408

## **Glass systems**

21	Manual sliding wall systems (MSW) ID 104377
22	Integrated all-glass systems (IGG) ID 104366



#### 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 highperformance drive technology, safety, ease of accessibility and first class universal drive design set them apart. GEZE offers complete solutions for individual requirements.

#### Smoke and heat extraction and window technology

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

#### Safety technology

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

#### **Building systems**

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

#### **Glass systems**

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



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