



Glass



Prestigious Glass Lift Doors and Portals

www.meiller-aufzugtueren.de

Function and Esthetics in Harmony: Prestigious MEILLER Glass Lift Doors and Portals.



MEILLER, a glass specialist

With over 5,000 glass lift doors delivered every year, MEILLER is one of the largest and most experienced suppliers of glazed doors and portals in Europe.

In architecture there are two other factors that are especially important for lifts in addition to technical requirements and esthetic demands. One is creative design through use of glass, and the other is high protection against vandalism, through transparency of glass and other features.

In contemporary architecture, glass and stainless steel are primarily employed as design elements, especially in structures of prestigious character. As a result, complex buildings appear lighter. Glazed lifts make a significant contribution to the transparency of buildings.





Safe Technology as Basic Prerequisite

Good design combines tested functionality with strong, proven equipment. Glass lift doors from MEILLER possess all quality characteristics that are already standard in the high-quality MEILLER doors, e.g.

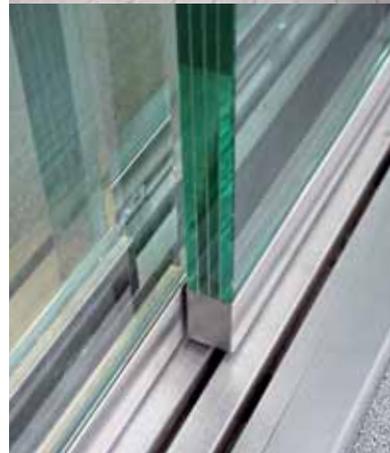
- Door transom as closed box-section with side walls, resistant to deflection.
- Very rigid guide rails, made of steel with section modulus for great stability and smooth operating characteristics.
- Track rollers mated to the contour of the guide rails, diameter generally 65 mm.
- Kicking rollers with enclosed ball bearings
- Door panels connected to the door hangers by means of eyebolts for optimum form fit and infinite adjustability without pins.
- Closing weight for constant and controlled forward force.
- Safe door shoes, with variable adjustment.

- Guiding groove only 7 mm wide, for good traversability and reduced level of debris in the threshold.
- Proven high performance toothed belt drives with regulated DC motors or gearless, frequency-regulated AC motors.

All these product features mean high availability, long service life and low maintenance, combined with the reduction of problems.

Special features of high quality glass doors

- Glass door panels with all-around frame are clad as standard with stainless steel on the front and back. The glazing is mounted flush to the frame. Versions with variable base heights are also possible.
- Fully glazed door panels are framed at top and bottom and clad with stainless steel. The glass laminate is generally ground smooth on the face for an appealing look. A flush-mounted, machined closing edge protection made of stainless steel is available as an option.
- The slamposts of the landing doors in combination with glass door panels have a special designed geometry in order to minimize the risk of injury to children's hands.



MEILLER Quality Characteristics specifically for High Quality Glass Doors.



● "Comfort skate"

Constant positive fit and force closure between car and landing door during the entire opening and closing process until the end position is completely reached by the expanding skate kinematics. Both followers move relatively away from each other when the doors open and towards one another when closing. Skate made of galvanized steel, low maintenance, highly resilient, equipped with a pivoting mechanism running on a needle bearing. No problems in the lift due to partly closed landing doors.

● Patented zone locking

EP 0744373, type-tested by TÜV in accordance with EN 81/Part 1 + 2. Failure-free operation thanks to mechanical functional principle.

● Reinforced kicking rollers

Reinforced hangers and kicking rollers made of steel with flange on the leading door panel increase stability and safety against falling.

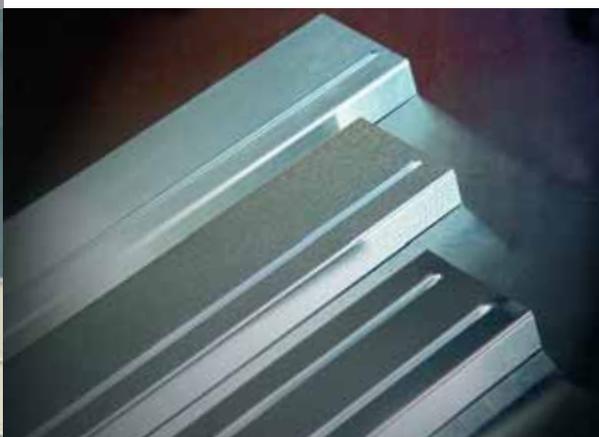
● Hidden track

Door panel guide mounted 70 mm deep downwards in the well – no shearing points when readjusting the car. Appealing look without visible guide grooves.



● High quality door sills

Large variety of door sills with different layouts and materials offer creative design options.





Appealing fully glazed door panel VSG - V36, faces machined and polished subsequently.

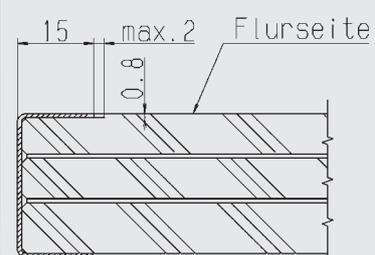
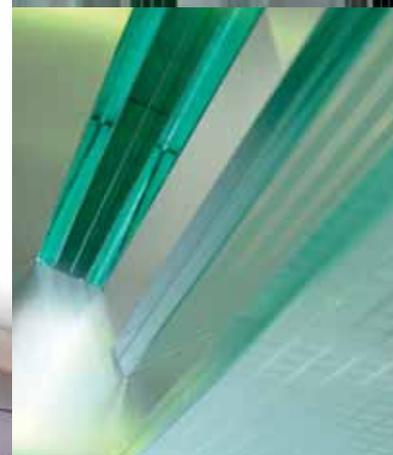
Special Requirements on Glass Doors

Lift doors represent the parts of a lift that are subject to the most stress. That is especially true for glass doors. While they appear exceptionally light thanks to their transparency, they actually weigh considerably more. This results in corresponding requirements for the other components of the door, in particular the transom, the track rollers, the drives and the skate.

For high-quality glass doors MEILLER places particular quality requirements on the door panels.

- Due to the positive connection between the door panel and the hangers, subsequent pinning is not necessary even for heavy glass doors. A continuously variable height and depth adjustment of door panels allows for efficient installation.
- Guide shoes extending over the entire door panel width provide increased stability and safety against falling. The guides shoes can be replaced quickly and easily without having to remove the door panels. This reduces costs of maintenance.

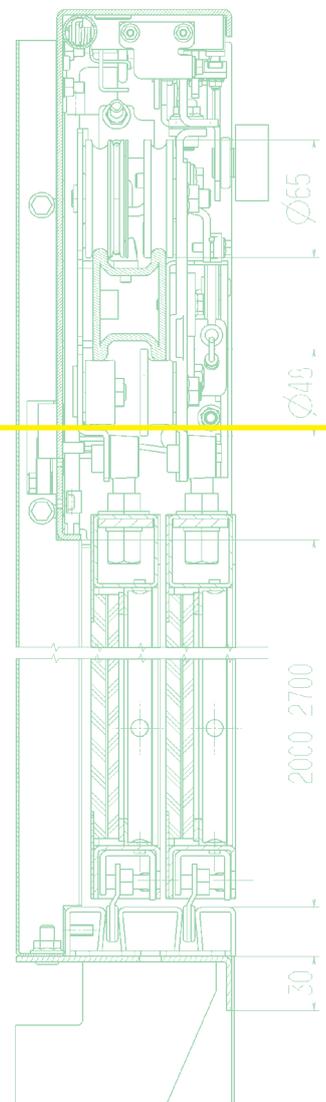
- Special sliding materials or heavy-duty technical felts are available for particular applications.
- To reduce the gaps, inexpensive plexi-glass bars are frequently implemented especially in the case of telescopic doors with fully glazed door panels. At MEILLER we only use **real glass bars** in order to maintain the desired look for many years.
- An important part of the safety tests for door panels involves pendulum impact testing, which very quickly reveal the weaknesses of a door. MEILLER generally performs these tests even with regard to dimensions, for which no pendulum impact tests are required according to EN 81 Part 1+2.



Machined closing edge protection on fully glazed door panel



MEILLER Glass Doors and Portal Versions



MEILLER lift doors are available as sliding doors with 2, 3, 4 or 6 glass door panels that open either centrally or on one side.

The dimensions range between door widths of 600 mm and 2500 mm as well as door heights of 2000 mm and 2500 mm depending on model and version. Just like MEILLER steel doors, it is possible to have intermediate dimensions as well.

Other dimensions and versions are available on request.



Framed door panels and vision panels are also available with a fire-tested design according to EN 81-58.





Unlimited Design Options

MEILLER's comprehensive range of glass doors with its many versions offers lift planners and architects a wide variety of options for arranging lifts.

Glass door panels, framed on all sides or frameless with 4-point fixing and rebated closing edge protection, are manufactured in diverse types of glass. With glass, many effects can be realized by means of etching or blasting with films or silkscreen printing.

For modernization projects, landing doors are equipped, for instance, with mirror effects that obstruct the view into dark shafts once the lift car leaves a floor. Doing so eliminates an expensive remodeling of old shafts, while the corresponding lift is enhanced at the same time in terms of visual appeal.

The award-winning OPTILIGHT® is a technically sophisticated system that comprises light sources and structured light deflection zones and which is integrated in the composite glass of lift doors. The light is broken, deflected or reflected by means of laser irradiation or changes in the material structure such as etching or engraving in the glass pane material. Designers and architects will find countless options for creative design for landing and car doors with light effects: For instance, logos, pictograms, numbers and letters or capacitive elements in the door panel facilitate orientation for the lift passengers in the building or provide signals that also ensure safety.



PRIVALITE® stands for laminated safety glass with integrated liquid crystals, which make milky glass transparent and vice-versa, in fractions of a second.





MEILLER Lift Doors – Quality Proven Millions of Times Over and Made in Germany



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At 30,000 doors per year, MEILLER is the leading German producer of high quality lift doors. This is supported by over 50 years of experience and competence in the development and production of sophisticated products on the site in Germany. Here, MEILLER works at the highest level of innovation – customer specific special solutions are almost standard.

MEILLER is in continuous contact with lift manufacturers, planners and operators and therefore knows the requirements right through to the user. This results in a higher level of product usefulness, creates solutions at interfaces, and therefore provides a better complete package for the user.

MEILLER provides outstanding technical support with rapid and qualified assistance – primarily on site. This increases the output capacity of the lift manufacturer and increases the safety in project processing.

Moreover, MEILLER offers product training for its customers and partners – even on site. This leads to better product knowledge among lift manufacturers and users, which reduces installation and service times and consequently costs.

As the only manufacturer of lift doors, MEILLER offers a fully parameterised, digital product catalogue, enabling easy, rapid and safe planning. After selecting the desired type of door, the door shapes are generated automatically in all three views and can be transferred into the CAD system at the click of a mouse. This saves costs and reduces errors.

For lift constructors, planners and operators, the result of all of these advantages is the quality that has been proven million times over, "quality made in Germany" – MEILLER quality!



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