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Usage Conditions

SICURTEC® special security glass with polycarbonate including SICURTEC® machine safety windows

General

This document is valid for the entire SICURTEC® special security glass product family as well as SICURTEC® machine safety windows. SICURTEC® panes provide the optimal protection indicated in the individual resistance classes only if used in all-round framing. The frames must comply with the individual resistance classes. Glass fixing rails must be fitted on the side away from the attack side.

SICURTEC® special security glass consists of structures of multiple layers of glass/polycarbonate. Therefore the glazing guidelines and in addition to DIN EN 12543 Part 5+6 the special quality guidelines for SICURTEC® special security glass are to be observed.

For transport, storage and installation of SICURTEC® glass, the following points must be complied with:

- ⊕ Transport and storage must be in the temperature range 0°C to 50°C.
- ⊕ Avoid extreme climate conditions and direct radiation from sunlight.
- ⊕ Formation of water condensation between the glass panes during transport and storage must also be avoided.
- ⊕ In external use it is advantageous to use insulating glass with appropriate coatings.
- ⊕ In the installed state in a building without heating or climate control, the above instructions are also applicable for storage and transport.
- ⊕ In the installed state the usual climate conditions for a building in use are assumed (standard indoor climate conditions).
- ⊕ All SICURTEC® glazing must be stored dry and not exposed to direct sunlight or other sources of heat.
- ⊕ Similarly, all heat build-up such as that due to blinds, curtains, awnings etc. behind the glass should be avoided.
- ⊕ Transport and storage must be done in a way that provides support for each individual pane.
- ⊕ Glass sheets must always be vertical during storage and transport. Suitable intermediate layers or spacers should always be used that prevent direct contact between the glass surfaces.

Reworking / Cleaning

Bullet-resistant SICURTEC® glass is manufactured with a polycarbonate sheet on the protected side. Polycarbonate is a plastic that is much more easily damaged than a glass surface. The following special instructions for cleaning and care must be complied with. Regular cleaning with conventional solvent-free household products lengthens the useful life.



For normal cleaning the following procedures are recommended:

- ☒ Rinse the polycarbonate surface with warm water.
- ☒ Remove dirt and deposits with a soft cloth or sponge and a mild soap solution or household cleaner, and warm water.
- ☒ Then rinse with cold water and dry with a soft dry cloth to prevent water spots.

Only non-scratching and non-abrasive cleaning methods and substances must be used on SICURTEC®. In general, cleaning should be done with plenty of clean water.

Warning

- ☒ Do not use abrasive or strongly alkaline cleaners.
- ☒ Do not use rubber wipers, razor blades or other sharp objects on the sheet.
- ☒ Do not clean polycarbonate sheets in strong sunlight or raised temperatures as this may cause discolouration.

Installation / Fitting

The polycarbonate surface and edge must be kept away from humid environmental influences. If SICURTEC® is used as bullet-resistant glazing, the polycarbonate sheet must always be on the room side.

Before installation, every SICURTEC® window should be checked for visible faults or damage. Damaged or faulty glass items must not be installed. Comply with stickers and instructions concerning the installation position. The rebate space between the glass and the frame must have ventilation compliant with instructions and standards. The glass rebate space must remain dry and free of dust, adhesives and lubricants. Glueing or sealing the rebate space or the edges of the glass or PC is not permitted and can result in delamination. For sealing the glass fixing rails only neutrally cured, low-modulus 1K silicone sealant must be used. Never use sealants with PVC plasticisers.

For glazings in rooms with a high humidity, for inclined or horizontal glazing, for glazing with high thermal, static or dynamic loads or insulating glass at altitudes over 1200 metres above sea level, the customer must first give the supplier accurate information about the conditions at the installation location and how the goods will be used, and obtain written authorisation. If SICURTEC® is used as bullet-resistant glazing, the polycarbonate sheet must always be on the room side.

Attaching and sticking on further foils and stickers of any kind is not permissible on SICURTEC® panels.

A possible product-related distortion of SICURTEC® during installation must be allowed for. Pressure must not be applied to the glazing. National standards and directives must be observed for installation, transport and storage. The protective film on the SICURTEC® must be left on the polycarbonate surface until all work is complete. Subsequent work on the edges, drilling and cutting out are not possible for SICURTEC® products.