

5 Indications to the manufacturer

5.1 Packaging, transport and storage

The manufacturer shall take suitable precautions for packaging, transport and storage to ensure that glass elements are protected against damage by, e.g. breakage, scratching, splitting or contamination.

Suitable arrangements have to be made to prevent the application of unacceptable loads to the structural seal, for example the provision of suitable racks, and to prevent exposure to water, solar radiation or significant changes of temperature, by protecting with covers.

5.2 Use, maintenance, repair

The cleaning of the façade may only be performed by using water with the addition of not more than 1 % surface-active agents without any other chemical additives and/or any aggressive cleaning methods (e.g. blast-cleaning with steam pressure).

Georg Feistel
Head of Department

beglaubigt
Herr

National provisions for glass products

Annex A

1. Provisions for the production of heat-soaked soda lime silicate safety glass (ESG-H)*

Class	Member States	Technical rule
A	Germany	Provisions for the production of heat-soaked thermally toughened soda lime silicate safety glass (ESG-H), see <i>Bauregelliste</i> ('Construction Products List') A Part 1, serial No 1.13

2. Provisions for the production of laminated safety glass with PVB foil (VSG)*

Class	Member States	Technical rule
A	Germany	Provisions for the production of laminated safety glass with PVB foil, see <i>Bauregelliste</i> ('Construction Products List') A Part 1, serial No 11.14

3. Provisions for the production of float glass (soda lime silicate glass)*

Class	Member States	Technical rule	Additional provisions
A	Germany	DIN EN 572-9 and <i>Bauregelliste</i> ('Construction Products List') A Part I, serial No 11.10	Indication of the bending tensile strength

4. Provisions for the production of thermally toughened soda lime silicate safety glass (ESG)*

Class	Member States	Technical rule	Additional provisions
A	Germany	DIN EN 12150-2 and <i>Bauregelliste</i> ('Construction Products List') A Part 1 serial No 11.12	Indication of the bending tensile strength

5. Provisions for the production of heat strengthened soda lime silicate glass (TVG)*

Class	Member States	Technical rule	Additional provisions
A	Germany	DIN EN 1863-2 and <i>allgemeine bauaufsichtliche Zulassung</i> ('National technical approval') for heat strengthened soda lime silicate glass/TVG	Indication of the bending tensile strength

* The national provisions of the Member States, not listed in this column, shall be taken into account.

National provisions for design calculation

Annex B

1. Design calculation for the loading case of bond failure*

Class	Member States	Additional provisions	Allowable values
A	Germany	Safety factor of 1.1 is to be considered for the glass panes (ESG-H) and for the emergency retaining devices	ESG-H: 109 N/mm ² Retaining devices: Glass 8 mm: 268 N Glass 10 mm: 325 N

2. Design resistance of the U-profile in the area of the screw-retaining device*

Class	Member States	Additional provisions	Allowable values
A	Germany	Global (total) safety factor of 1.15	870 N

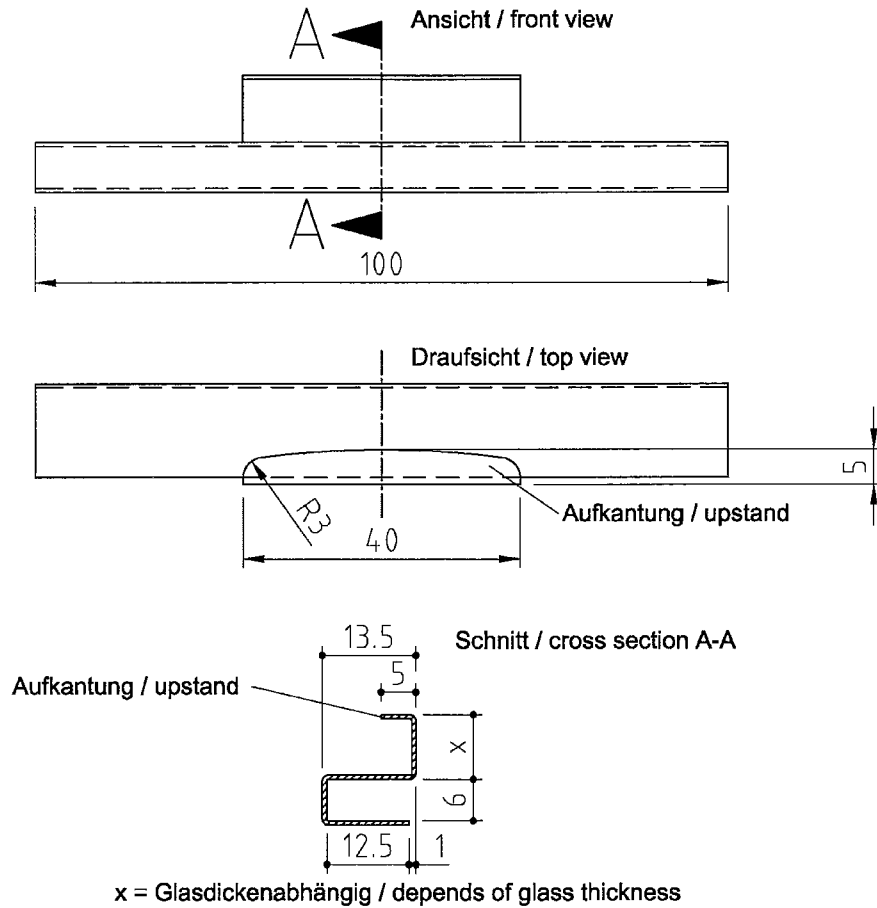
3. Design calculation for the structural sealant*

Class	Member States	Additional provisions	Allowable values
A	Germany	Global safety factor γ_{tot}	$\gamma_{tot} = 6$

The national provisions of the Member States, not listed in this column, shall be taken into account.

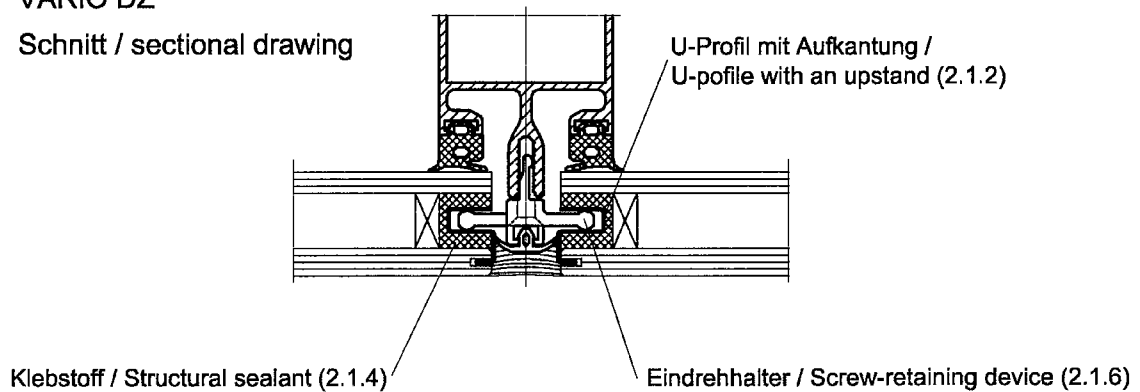
Punkt 1.1 / Item 1.1

U-Profil mit Aufkantung (Nothalter) / U-profile with an upstand (safety device)



VARIO DZ

Schnitt / sectional drawing



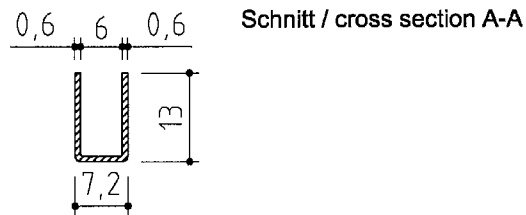
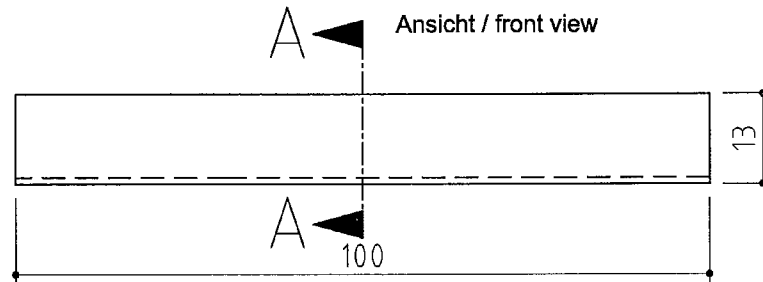
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VARIO DZ
 Mechanische Sicherung
 safety device

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 of the European
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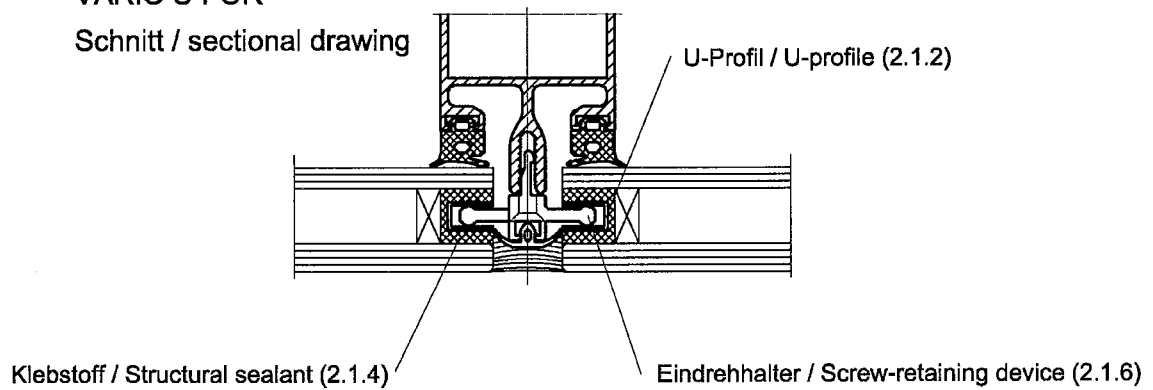
Punkt 1.1 / Item 1.1

U-Profil ohne Aufkantung / U-profile without an upstand



VARIO S-FOR

Schnitt / sectional drawing



VARIO S-FOR in Deutschland nur bis zu einer Einbauhöhe von 8 m
 VARIO S-FOR in Germany only up to 8 m height



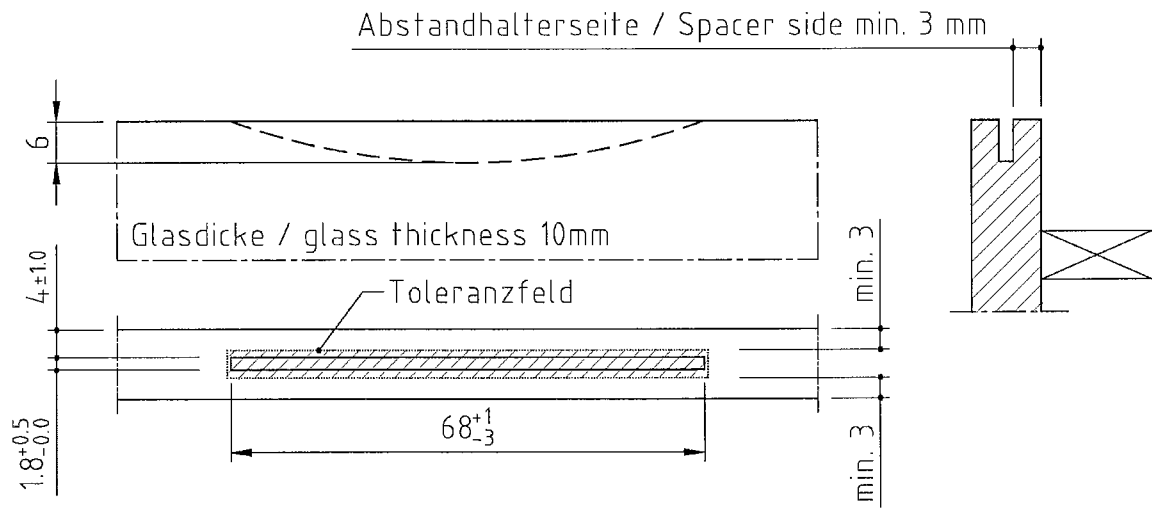
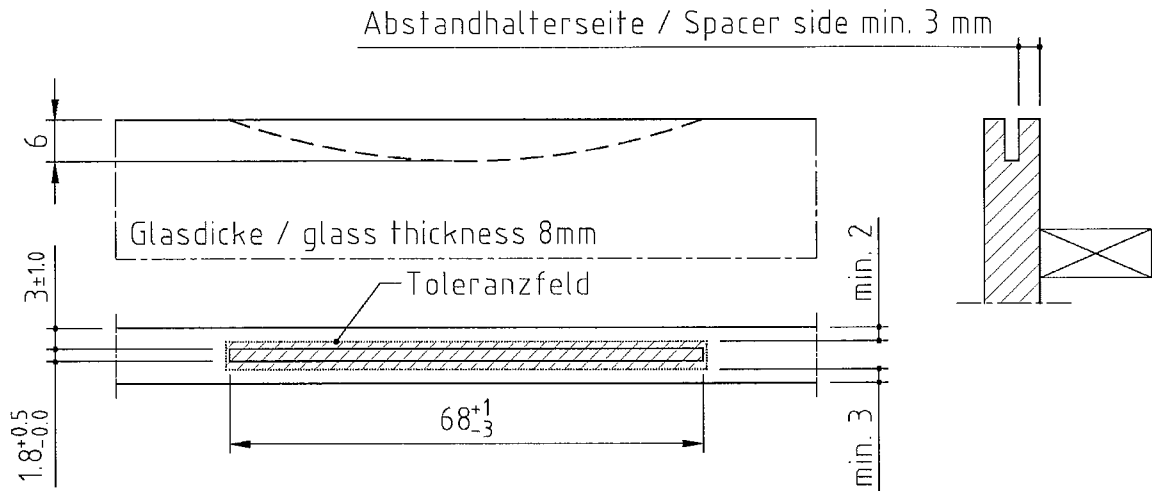
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VARIO S-FOR

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Punkt 2.1.1 / Item 2.1.1

Abmessungen des Glaseinschliffs / Dimensions of the glass grinding



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VARIO DZ
 Glaseinschliff / glass grinding
 8 mm, 10 mm ESG-H

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Punkt 2.1.5 / Item 2.1.5
 Punkt 2.1.6 / Item 2.1.6

Eigengewichtsabtragung / Klotzung

Es muss sichergestellt werden, dass das Eigengewicht der Isolierglasscheibe durch die Klotzung abgetragen wird.

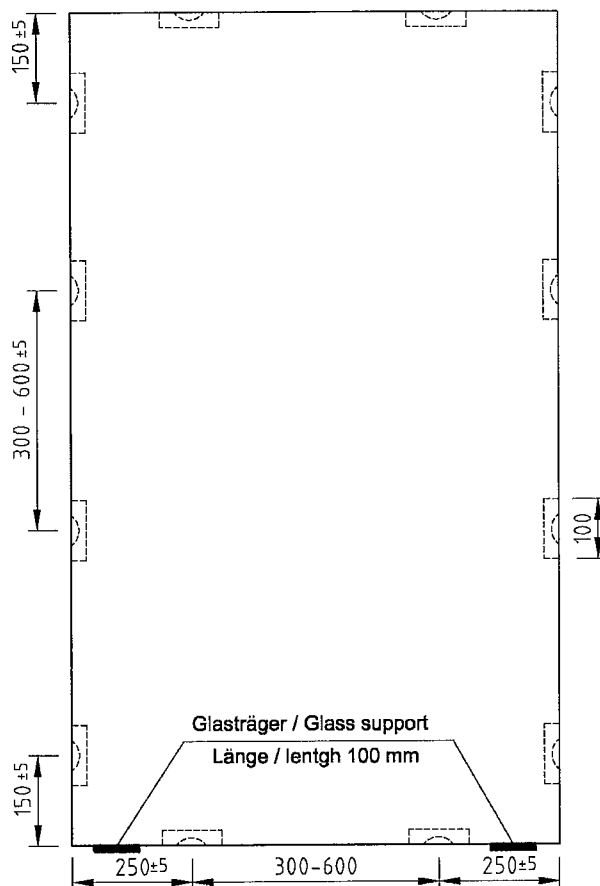
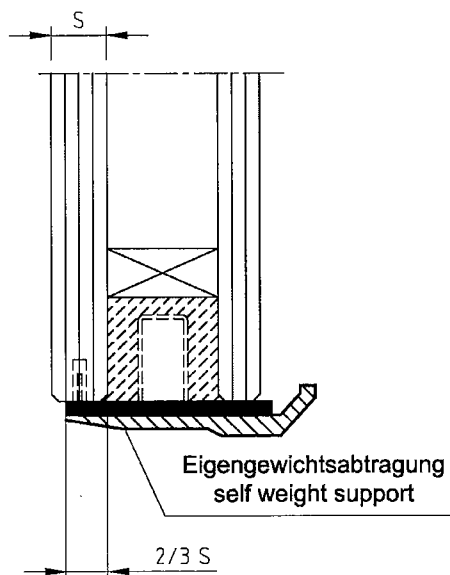
Im Bereich des Glaseinschnitts darf nicht geklotzt werden.

Die Klotzung muss 2/3 der Dicke der Außenscheibe erfassen.

Self weight support / setting block:

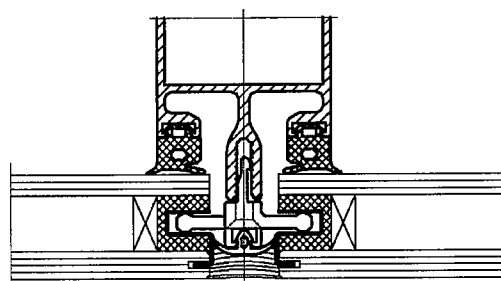
The dead weight of the insulating glass pane has to be carried by the setting blocks. Do not place setting blocks at the cut in area.

The setting block must be positioned 2/3 of the thickness of the outside pane.



Bei Scheibenbreiten von 500 mm bis 700 mm, nur einen Halteteil einsetzen.
 For pane width 500 mm to 700 mm insert one mechanical clip only.

Über 700 mm zwei oder mehr Halteteile einsetzen, wobei der Abstand der Halteteile 300 bis 600 mm betragen soll.
 Pane widths of over 700 mm insert two or more mechanical clips, the distance between the clips should be 300 to 600 mm.



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VARIO DZ
 Eigengewichtsabtragung
 self weight support

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Punkt 2.1.5 / Item 2.1.5
 Punkt 2.1.6 / Item 2.1.6

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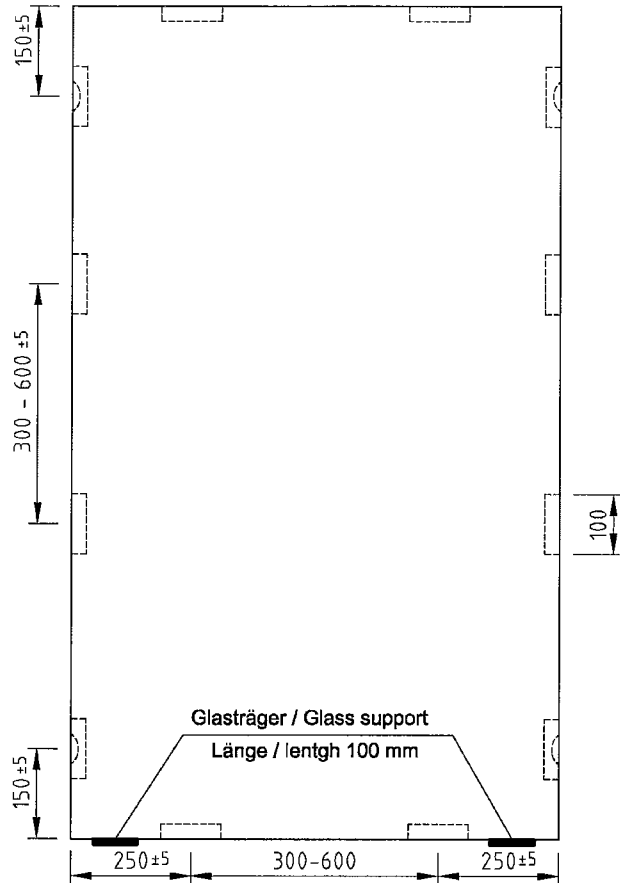
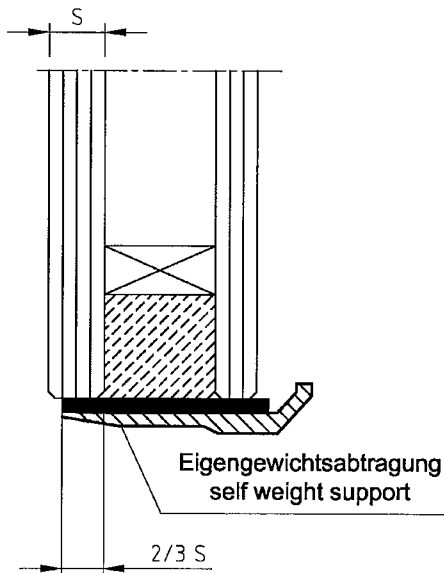
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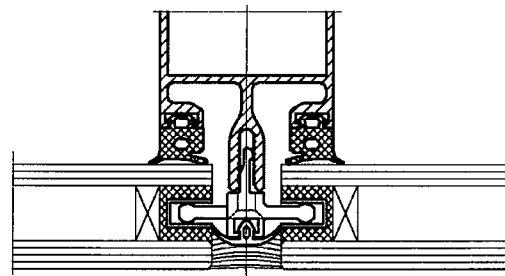
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