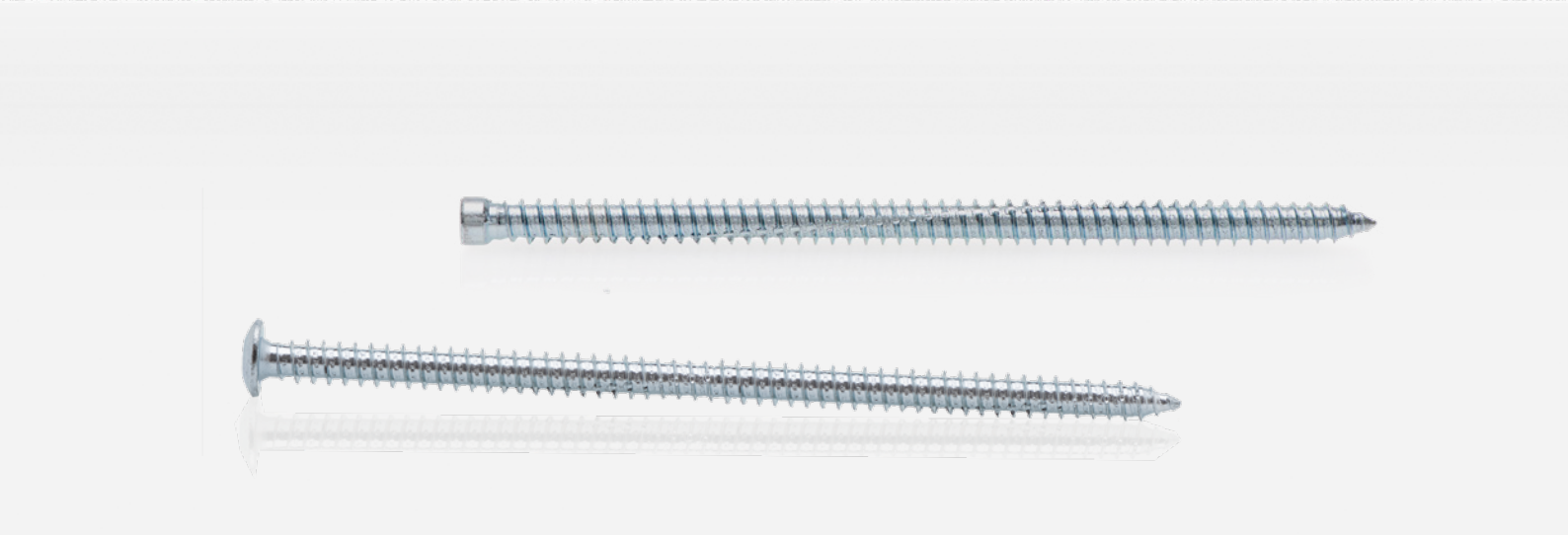
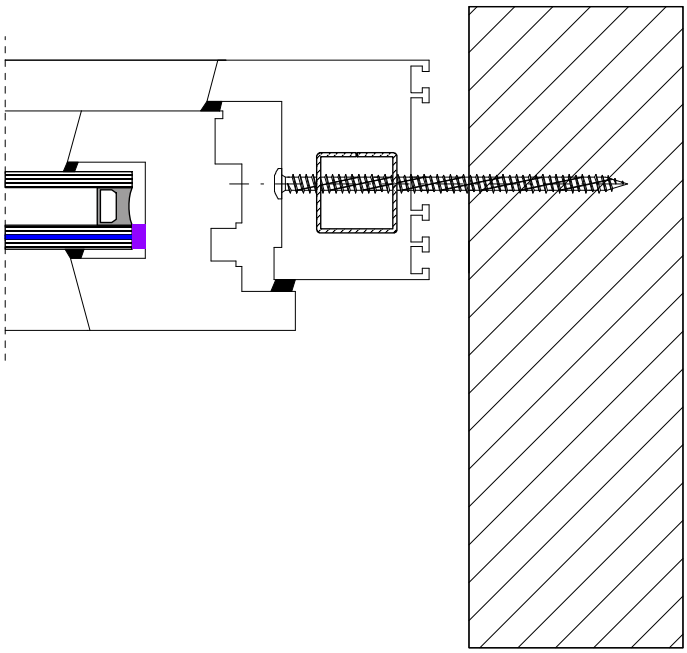


Installation instructions for burglary-resistant RC1 N - RC2 elements blaugelb Frame Screw Fix FK-T30 / ZK-T30

General notes:

Observe the relevant standards and guidelines as well as the state of the art. This applies to extracts from the following standards and guidelines:

- DIN EN 1627, 1628, 1629 and 1630
- Requirements of the current German Energy Saving Ordinance (EnEV)
- Requirements of the construction contract procedures (VOB) DIN 18355, 18360 and DIN 18361
- Dimensions and general basic rules according to DIN 68121-1 and 68121-2
- Checking of air permeability DIN EN 12114 and 12207
- Tightness to driving rain DIN EN 1027 and 12208
- Wind loads DIN EN 122100 and 12210
- Thermal protection requirements DIN 4108
- Soundproofing requirements DIN 4109
- Notes on window installation from the current guide for proper installation
- ift Guideline MO-01/1 Structural connection of windows and their serviceability within sealing systems
- ift Guideline MO-02/1 Structural connection of windows and their serviceability within fastening systems

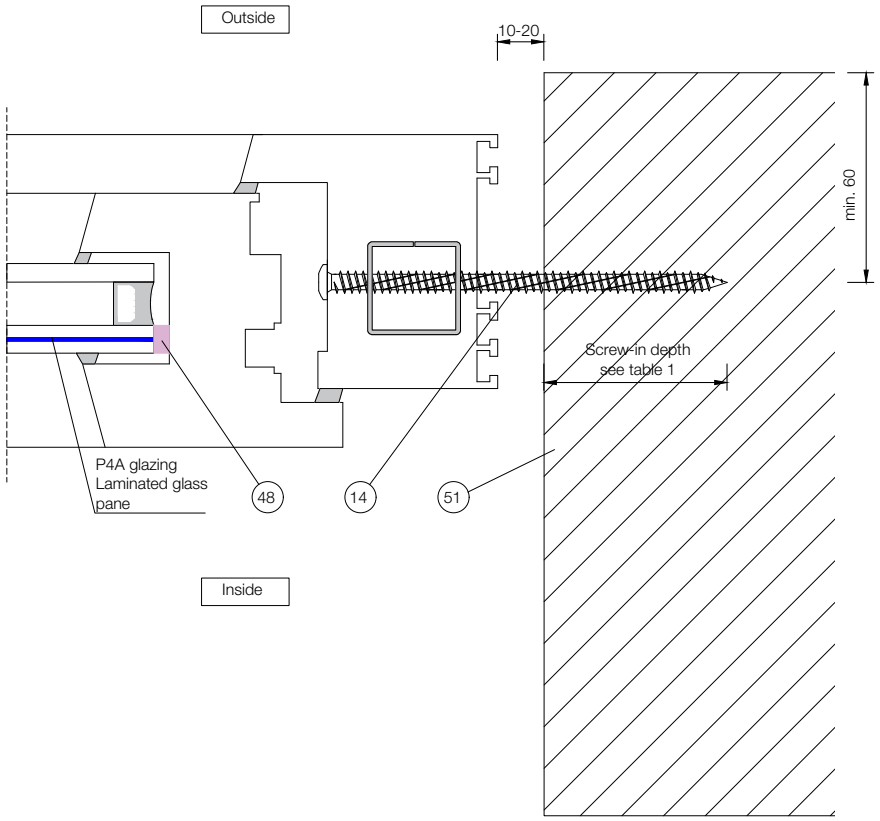


The certificates for the RC2 windows as per DIN EN 1627-1630 are to be provided by the manufacturer or the installer to the client/user following acceptance.

An assembly certificate must always be issued. Forms are available in the download area of the blaugelb Frame Screw Fix FK-T30 under: **www.blaugelb.de**

Installation instructions for burglary-resistant RC1 N - RC2 elements
blaugelb Frame screw Fix FK-T30 / ZK-T30

Installation situation in the plastic window:



(14) blaugelb Frame Screw Fix FK-T30 7.5 x L

(48) blaugelb RC Adhesive

(51) Supporting wall structure

The drilling type and hole diameter depend on the screwing base. The drill hole must be cleaned after drilling.
Our screw-in recommendations[1] in relation to the various substrates:

Jamb, substrate	Drill hole diameter	Screw-in depth	Rotary drilling	Impact drilling
Concrete[4]	6.5 mm	40 mm		x
Sand-lime brick[4]	6.5 mm	60 mm		x
Full brick[4]	6.0 mm	60 mm	x	
Wood[4]	6.0 mm	60 mm	x	
Lightweight concrete LC6[2]	6.0 mm	60 mm	x	
Aerated concrete PP2[3]	No pre-drilling	210 mm	-	
Aerated concrete PP4/6[3]	No pre-drilling	180 mm	-	
Vertically perforated brick[4]	6.0 mm	min. 180 mm	x	
Highly insulated vertically perforated brick[4]	5.0 mm	min. 180 mm	x	

[1] Due to the varying microstructures, we also recommend carrying out corresponding pretests.

[2] Lightweight concretes are not defined in DIN EN 1627, table NA. 2 as a possible anchor base for burglary-resistant components.

[3] According to DIN EN 1627, table NA. 3, a compressive strength >/= 4 N/mm² is required for the installation of burglary-resistant components in aerated concretes.

[4] DIN EN 1627, table NA. 2 requires a compressive strength >/= 12 N/mm² where “masonry” is the anchor base.

Hole depth = screw-in depth +10 mm

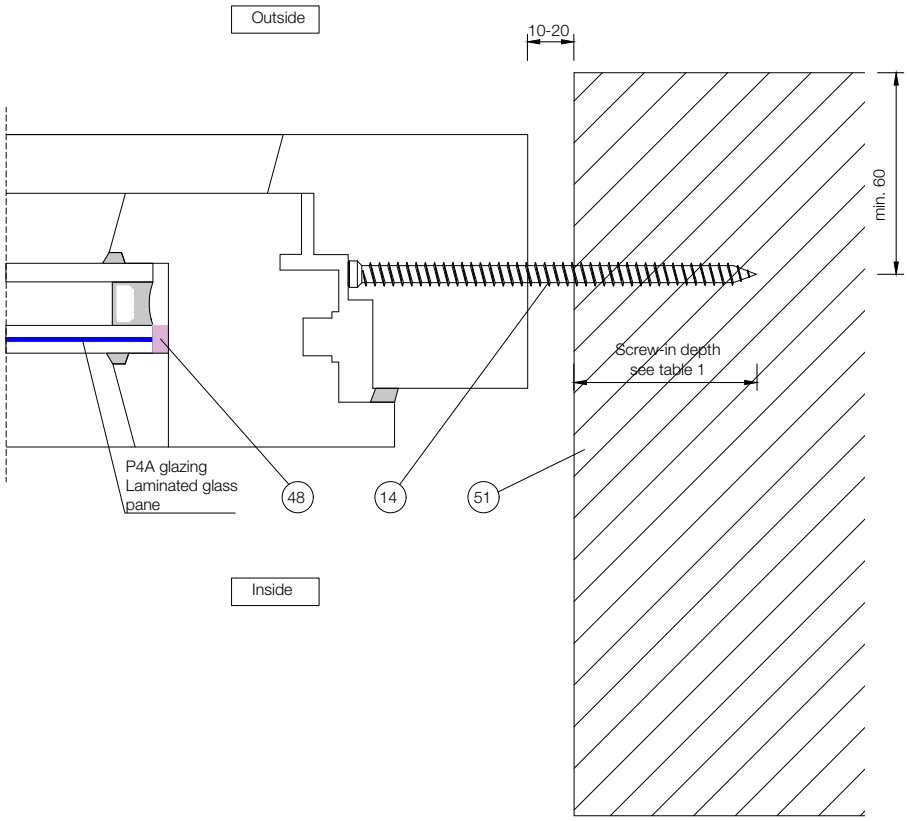
Choosing the right length of screw:

Grip length (e.g. frame or profile width)
+ joint width (recommendation ≤ 15 mm)
+ screw-in depth (depending on construction material, see tech. data sheet)

= screw length

Installation instructions for burglary-resistant RC1 N - RC2 elements
blaugelb Frame Screw Fix FK-T30 / ZK-T30

Installation situation in wooden windows:



(14) blaugelb Frame Screw Fix FK-T30 7.5 x L

(48) blaugelb RC adhesive

(51) Supporting wall structure

The drilling type and hole diameter depend on the screwing base. The drill hole must be cleaned after drilling.
Our screw-in recommendations[1] in relation to the various substrates:

Jamb, substrate	Drill hole diameter	Screw-in depth	Rotary drilling	Impact drilling
Concrete[4]	6.5 mm	40 mm		x
Sand-lime brick[4]	6.5 mm	60 mm		x
Full brick[4]	6.0 mm	60 mm	x	
Wood[4]	6.0 mm	60 mm	x	
Lightweight concrete LC6[2]	6.0 mm	60 mm	x	
Aerated concrete PP2[3]	No pre-drilling	210 mm	-	
Aerated concrete PP4/6[3]	No pre-drilling	180 mm	-	
Vertically perforated brick[4]	6.0 mm	min. 180 mm	x	
Highly insulated vertically perforated brick[4]	5.0 mm	min. 180 mm	x	

[1] Due to the varying microstructures, we also recommend carrying out corresponding pretests.

[2] Lightweight concretes are not defined in DIN EN 1627, table NA. 2 as a possible anchor base for burglary-resistant components.

[3] According to DIN EN 1627, table NA. 3, a compressive strength >/= 4 N/mm² is required for the installation of burglary-resistant components in aerated concretes.

[4] DIN EN 1627, table NA. 2 requires a compressive strength >/= 12 N/mm² where “masonry” is the anchor base.

Hole depth = screw-in depth +10 mm

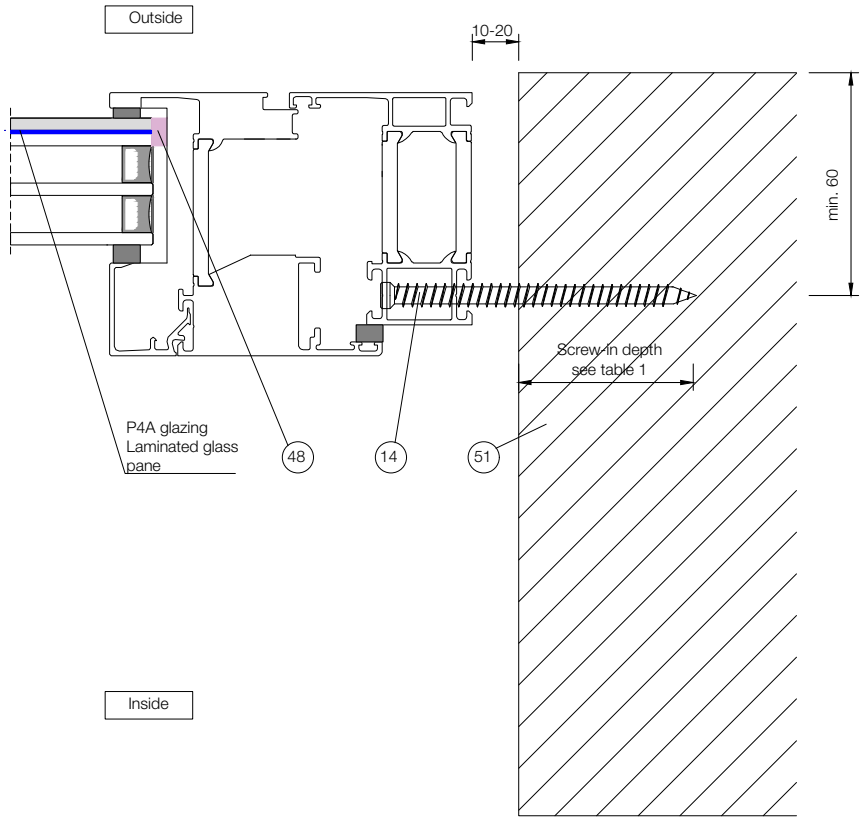
Choosing the right length of screw:

Grip length (e.g. frame or profile width)
+ joint width (recommendation ≤ 15 mm)
+ screw-in depth (depending on construction material, see tech. data sheet)

= screw length

Installation instructions for burglary-resistant RC1 N - RC2 elements
blaugelb Frame Screw Fix FK-T30 / ZK-T30

Installation situation in aluminium windows:



(14) blaugelb Frame Screw Fix FK-T30 7.5 x L

(48) blaugelb RC adhesive

(51) Supporting wall structure

The drilling type and hole diameter depend on the screwing base. The drill hole must be cleaned after drilling.
Our screw-in recommendations[1] in relation to the various substrates:

Jamb, substrate	Drill hole diameter	Screw-in depth	Rotary drilling	Impact drilling
Concrete[4]	6.5 mm	40 mm		x
Sand-lime brick[4]	6.5 mm	60 mm		x
Full brick[4]	6.0 mm	60 mm	x	
Wood[4]	6.0 mm	60 mm	x	
Lightweight concrete LC6[2]	6.0 mm	60 mm	x	
Aerated concrete PP2[3]	No pre-drilling	210 mm	-	
Aerated concrete PP4/6[3]	No pre-drilling	180 mm	-	
Vertically perforated brick[4]	6.0 mm	min. 180 mm	x	
Highly insulated vertically perforated brick[4]	5.0 mm	min. 180 mm	x	

[1] Due to the varying microstructures, we also recommend carrying out corresponding pretests.

[2] Lightweight concretes are not defined in DIN EN 1627, table NA. 2 as a possible anchor base for burglary-resistant components.

[3] According to DIN EN 1627, table NA. 3, a compressive strength >/= 4 N/mm² is required for the installation of burglary-resistant components in aerated concretes.

[4] DIN EN 1627, table NA. 2 requires a compressive strength >/= 12 N/mm² where “masonry” is the anchor base.

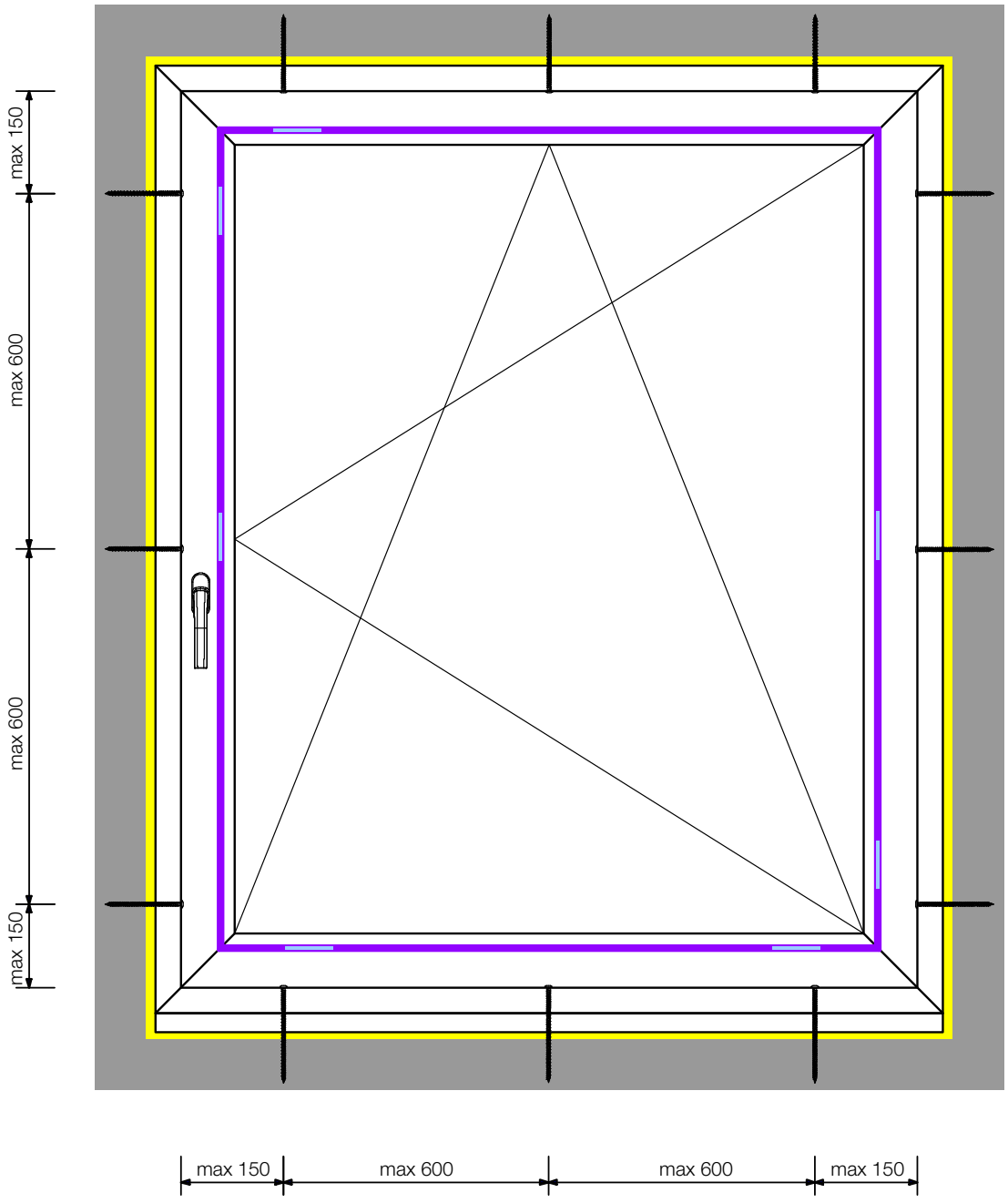
Hole depth = screw-in depth +10 mm

Choosing the right length of screw:

Grip length (e.g. frame or profile width)
+ joint width (recommendation ≤ 15 mm)
+ screw-in depth (depending on construction material, see tech. data sheet)

= screw length

Fixing spaces for 1-sash windows and French windows



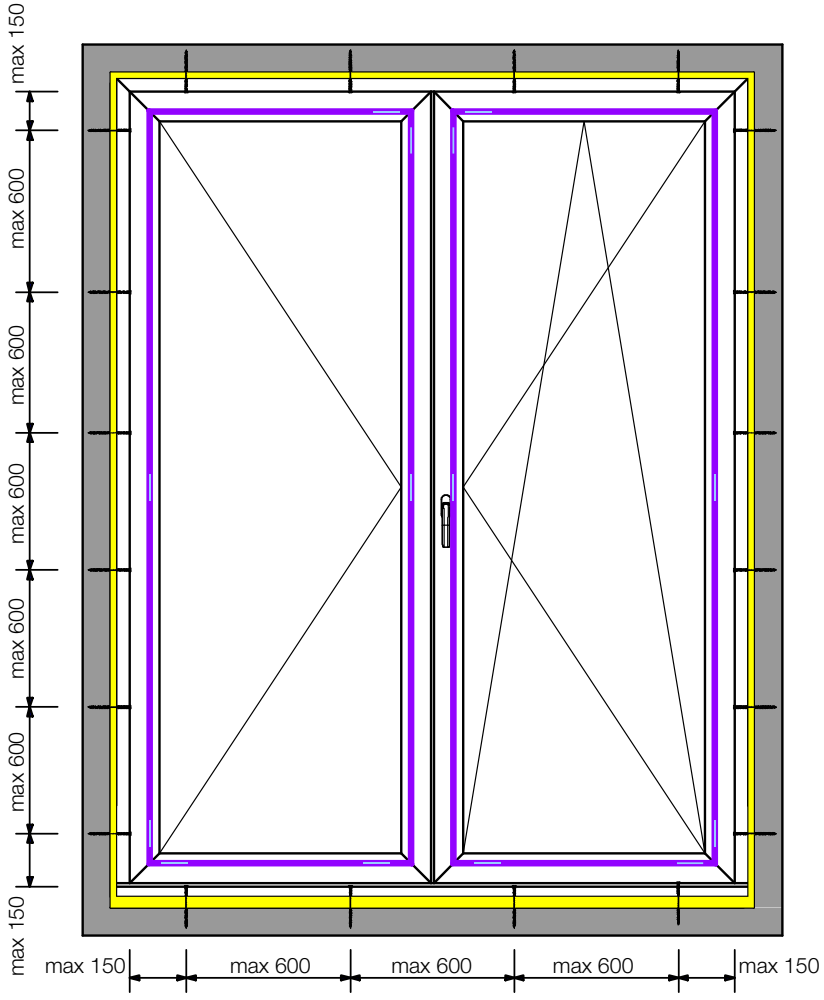
Glazing block

Glued all round with blaugelb RC Adhesive

Connecting joint (anchor base and element) ≤ 15 mm

Screwed with blaugelb Frame Screw Fix ZK-T30 7.5 x L
Alternatively: FK-T30 7.5 x L
See table

Fixing spaces for 2-sash windows and French windows



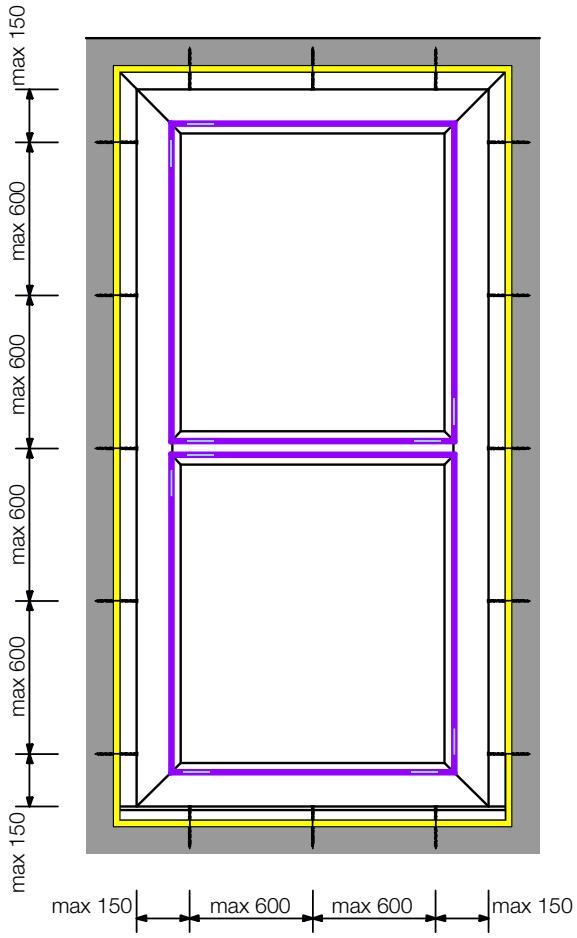
Screwed with blaugelb Frame Screw Fix

Glazing block

Connecting joint (anchor base and element) ≤ 15 mm

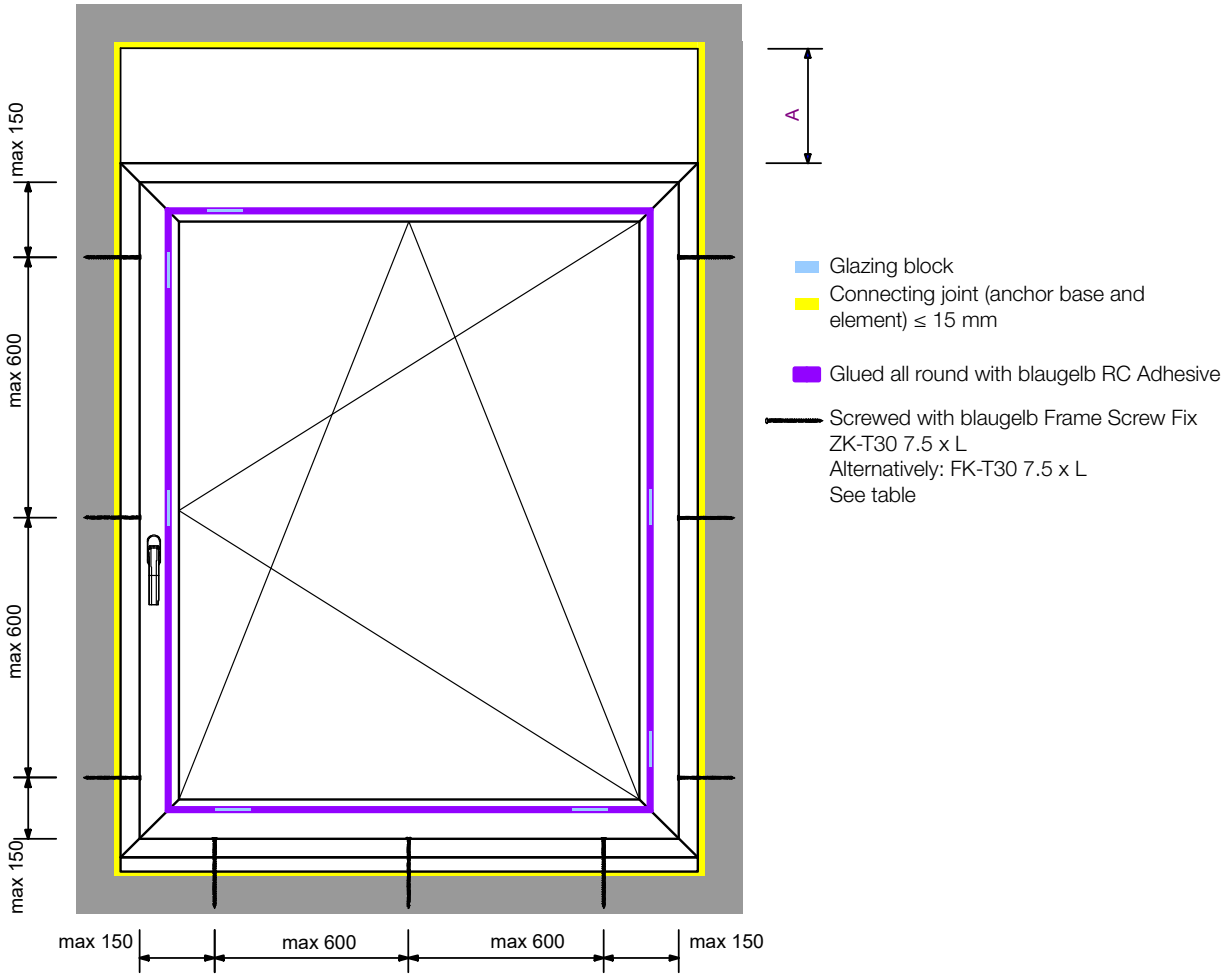
Glued all round with blaugelb RC Adhesive

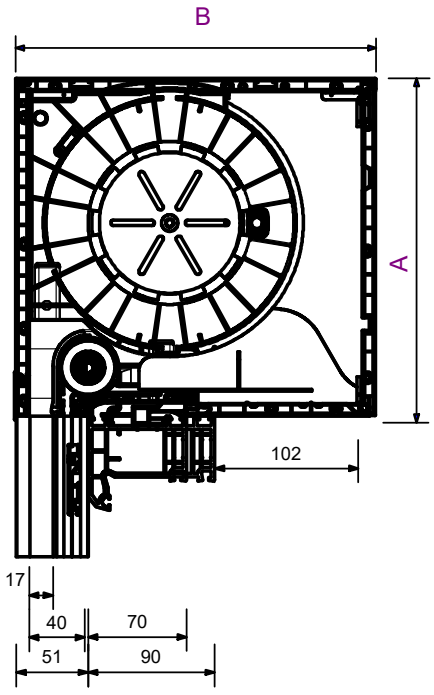
Fixing spaces for 1-sash front doors



Screwed with blaugelb Frame Screw Fix
Glazing block
Connecting joint (anchor base and element) ≤ 15 mm
Glued all round with blaugelb RC Adhesive

Fixing spaces for 1-sash windows with a roller shutter box





Note:
Static loads must be transferred as specified by the roller shutter system manufacturer