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Installation and maintenance instructions for PRÜM fire doors

- **Fire doors**
  according to DIN 4102
- **Fire and smoke protection doors according to DIN 4102 / DIN 18095**

www.tuer.de

PRÜM type	DIN 4102	DIN 18095	Approval No.
FS-30-1 **s**	T30-1-FSA	-	Z-6.20-2095
FS-30-1-RD**ns**	T30-1-RS-FSA	RS-1 door	
FS-30-2	T30-2-FSA	-	
FS-30-2-RD•	T30-2-RS-FSA	RS-2 door	
T30RS-1 ✱**s**	T30-1-FSA	RS-1 door	Z-6.20-2049

s Burglary protection RC2 / RC3 possible
n Sound insulation Rw = 32dB, 37dB, 42dB possible
• Sound insulation Rw = 32dB possible
✱ Sound insulation Rw = 42dB / 47dB possible

Fire doors must be installed by qualified specialists who
Following these installation instructions you are used to working carefully!
These instructions must be handed over to the end user!

AS OF 09.05.2025

Item No. 0000409139

PRÜM
Türen die zu mir passen

A company of the Arbonia Group
ARBONIA

PRÜM-Türenwerk GmbH • Andreas-Stihl-Straße • 54595 Weinsheim / Eifel

Dear Customer,

Enclosed you will find our installation and maintenance instructions for your construction project.
Proper installation is the foundation for functionality and durability in the event of damage. This functionality is only guaranteed if the fire barriers are professionally installed using approved building materials and accessories. Installation may only be carried out in approved walls using approved fasteners and insulation materials.

These installation instructions have been prepared with the utmost care. Any printing errors or missing information do not constitute grounds for complaint. We are happy to provide further information.

Best regards

PRÜM Doors GmbH
Andreas-Stihl-Straße 1
54595 Weinsheim/Eifel

PRÜM
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1. General information

- According to the approval, these doors are only permitted to be used in dry rooms
- Interior doors are not suitable for use between the house and the garage; for this case, there are special garage connecting doors (GVT) from PRÜM.
- The installation of the doors should only take place in the final stage of the interior work

> The relative humidity at the installation site must not exceed 60% (at a temperature of approximately +15 to +20°C). If the climate exceeds this limit, installation may not be carried out due to the expected negative effects on the door element.

- For approved walls, see “General Building Inspectorate Approval”
- Check shell openings for dimensional accuracy and strength
- All connecting joints must be sealed with a permanently elastic sealant (e.g. silicone, acrylic) (for steel frames that are 100% mortared and plastered, sealing may be omitted)
- All further instructions from the approval Z-6.20-2095 must be observed
- Sketches are for illustration purposes only and are not to scale

NOTE on the disposal of electronic components:
Do not dispose of electronic components in your household waste! According to European guidelines, electronic components in/on the door leaf and frame that are no longer usable must be removed and recycled in an environmentally friendly manner.



2. Notes on door handles and overhead door closers

The supplied door handle may only be replaced with an approved handle according to DIN 18273. Spacer sleeves are not permitted. For burglar-resistant elements, the door handle must also comply with DIN 18257 (RC2=ES1, RC3=ES2) / EN 1906 (RC2=SK2, RC3=SK3) (security fitting).

The supplied door closer may only be replaced after consultation with the approval holder. Depending on the frame variant, further details regarding fastening must be observed, e.g., the number and position of aluminum brackets in the door frame crosspiece. Stopping doors with door closers during opening is not permitted, as the leverage creates strong forces that can lead to damage. We recommend installing a floor stop.

3. Check the scope of delivery for completeness

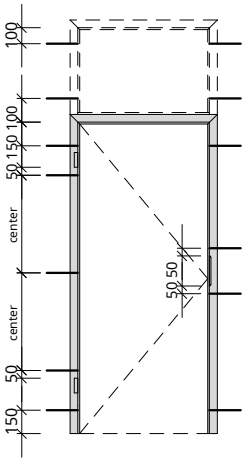
- Fire door + frame including fittings (hinges, lock, strike plate, etc.)
- Installation instructions including approval
- Overhead door closer
- Black plastic handle set
- Fastening material depending on the version
- Fire-resistant glass + glazing beads depending on the design
- Mounting box depending on the version: (Mounting box 1 for WF1+WF2)
  (Mounting box 2 for WF3+WF4
  (Mounting box 3 for skylight)

<u>additionally for windbreak elements</u> :

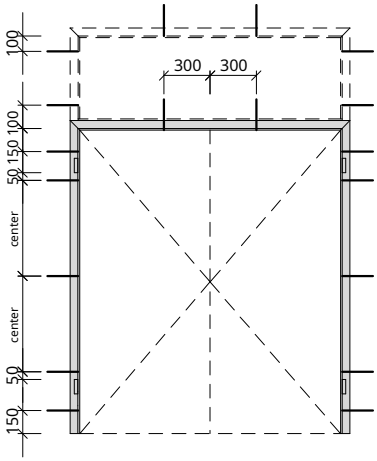
- Fighter upright (depending on the variant)
- Fighter across (depending on variant)
- Silicone / gait tape

4. Fastening positions door frame, frame, block frame

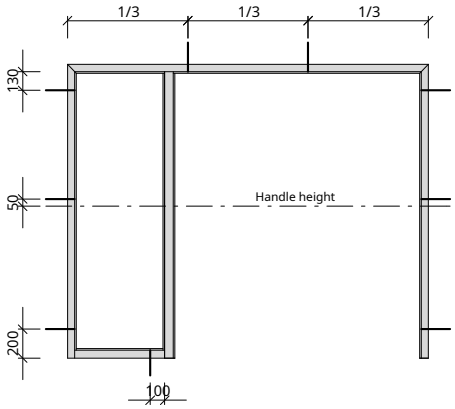
1-wing



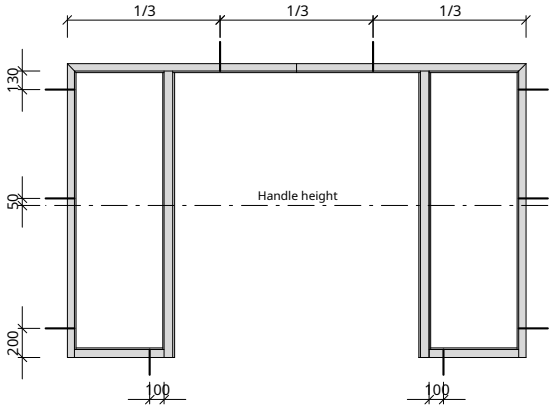
2-wing



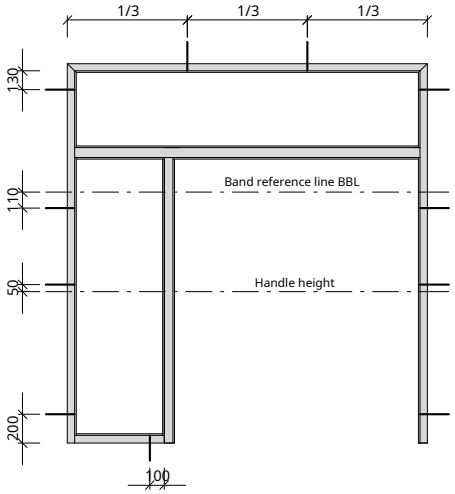
Windbreak WF1



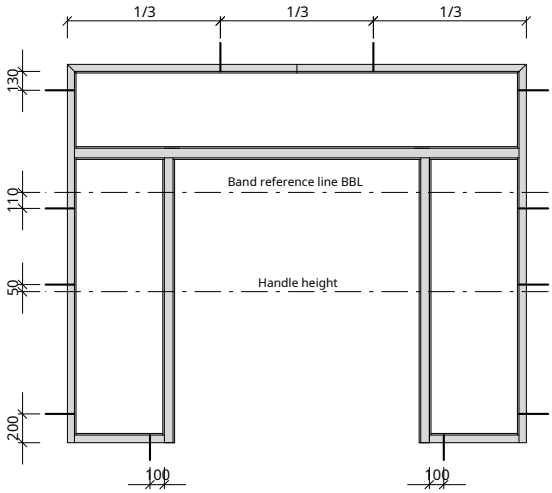
Windbreak WF2



Windbreak WF3

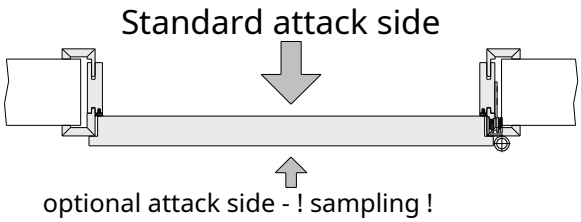


Windbreak WF4



- All metal fasteners must be permanently protected against corrosion.
- Depending on the situation and wall structure, additional fixing points may be required.
- Fittings on heavy doors (30kg and over) must generally be backed with pressure-resistant material.
  (e.g. 2K injection mortar / 2K composite mortar / 2K hybrid mortar / 2K assembly mortar based on vinyl ester or polyester, hardwood, wood fiberboard)
- The dimensions on this page are subject to a tolerance of ± 50mm

5. Notes for elements with burglar resistance



Danger :

Only the rebate side of the door is permitted as an attack side!

(Door opens into the apartment)

Notice :
Locking state required for burglary protection: closed, locked and locked!

Requirements for fittings for fire doors with burglar protection RC2 / RC3:

- Security fittings DIN 18273 + DIN 18257 (RC2=ES1, RC3=ES2)
- Protective fittings DIN 18273 + EN 1906 (RC2=SK2, RC3=SK3)
- Drilling and pulling protection (BZ): The pulling protection integrated in the profile cylinder may be omitted if it is integrated in the security fitting (= security fitting with cylinder cover)
- The locking cylinder may protrude a maximum of 3 mm on the attack side (outside of the door)!
- Handle sets with an 8 mm handle pin and spacer sleeve for 9 mm are not permitted!
- Locking cylinder DIN 18252, at least class 21-,31-,71-BZ

e.g. cylinder for standard keys :
- Kaba Gege Systems pExtra, version 71-BZ
- Wilka D400, version 82-BZ
- BKS detect3, version 71-BZ

e.g. cylinder for reversible key :
- Kaba System Gemini plus, version 82-BZ
- BKS janus, version 82-BZ
- BKS livius, version 82-BZ

Minimum requirements DIN/EN + digital cylinder see installation instructions burglar resistance

Requirements for solid walls: (for fire doors with burglar protection RC2 / RC3)

- Masonry DIN 1053-1 / Mortar group II / Compressive strength class bricks ≥ 12 / RC2: d ≥ 115, RC3: d ≥ 115
- Reinforced concrete DIN 1045 / Strength class B15 / RC2: d ≥ 100, RC3: d ≥ 120
- Aerated concrete / compressive strength class stones ≥4 / glued / RC2: d ≥ 170, RC3 ≥ 240
  (In addition, the minimum requirements according to the general building inspectorate approval Z-6.20-2095 apply)

Requirements for lightweight walls: (for fire doors with burglar protection RC2)

- Suitable burglar-resistant lightweight walls must meet the requirements of DIN EN 1627 and the general building authority approval.
- Z-6.20-2095 - FS-30-1 / FS-30-2 / FS-30-1-RD / FS-30-2-RD
- Z-6.20-2049 - T30RS-1

For example, the following mounting walls are approved for fire doors with RC2 / RC3: RC2:

- Z-6.20-2049 - T30RS-1:
- Rigips: EW12HA / EW13DH / EW22HA / EW23DH

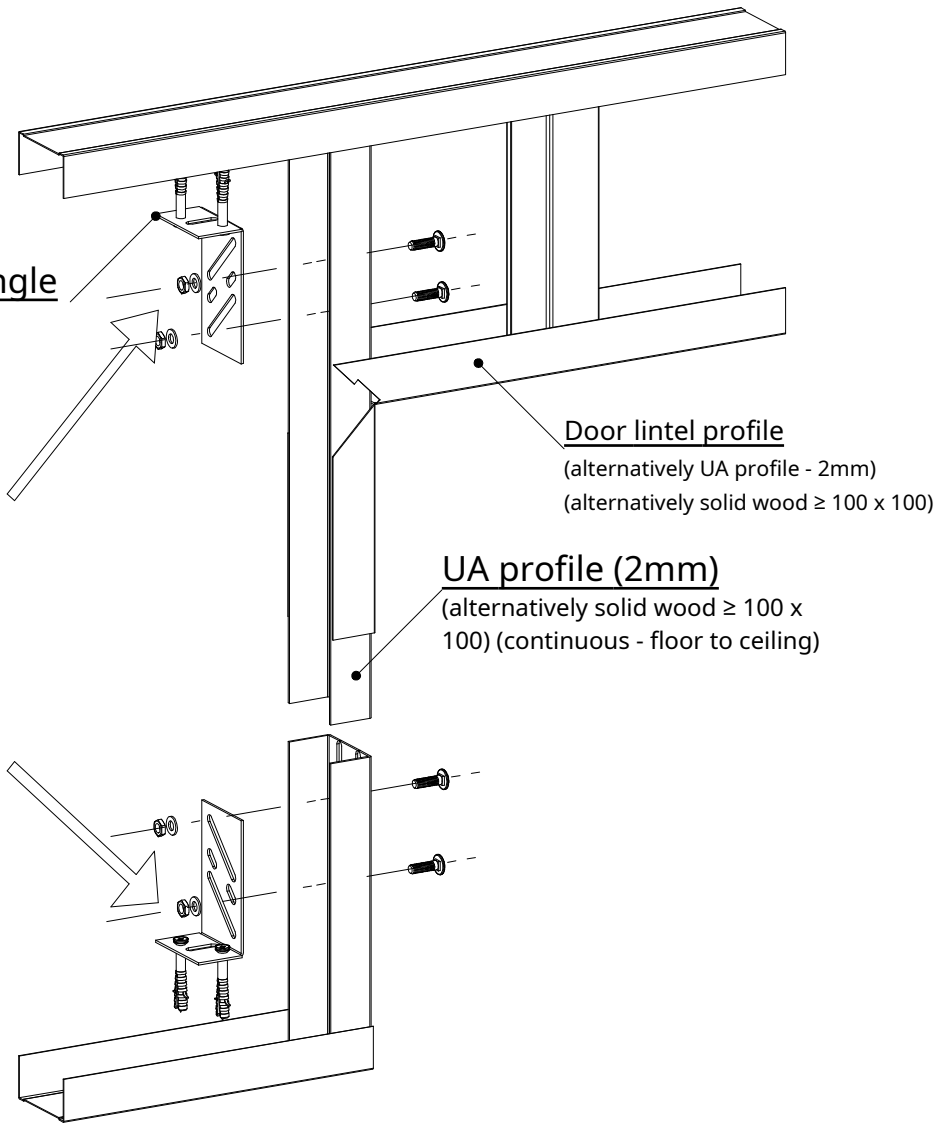
- Z-6.20-2095 - FS-30-1 / FS-30-2 / FS-30-1-RD / FS-30-2-RD
- Rigips: EW13RH / EW23RH
- Knob: W118de-WK2 / W119de-WK2
- Danogips RC2 - e.g. W90 – 90

RC3:

- Z-6.20-2049 - T30RS-1:
- Rigips: EW12HA / EW14DH / EW15DH / EW22HA / EW24DH

- Z-6.20-2095 - FS-30-1 / FS-30-2 / FS-30-1-RD / FS-30-2-RD
- Rigips: EW14RH / EW23RH
- Knob: W118de-WK3 / W119de-WK3

Door opening design:

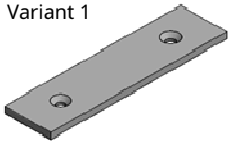


Installation of the rebate air limiter

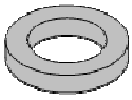
To ensure optimal burglary protection, two air gap limiters must be installed on the hinge side of the door leaf. The air gap limiters must be mounted at the height of the hinges. For variant 1, they are fastened with screws Assy 3.0 - 5.0 x 55 (pre-drill 3.0) and for variant 2 with
Screws 3.5 x 17.0mm.

Depiction

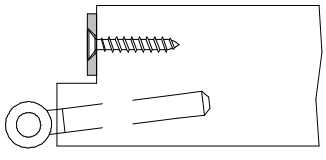
Variant 1



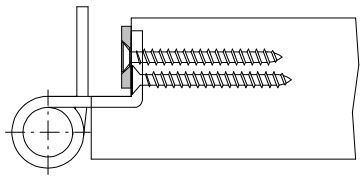
Variant 2



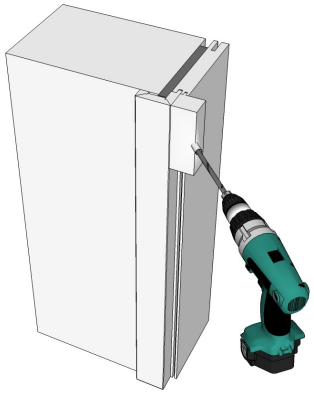
Example drill-in hinge



Example screw-on hinge



6. Installation of door frame



6.1. Door frame assembly instructions

1. Use of the PRÜM drilling template

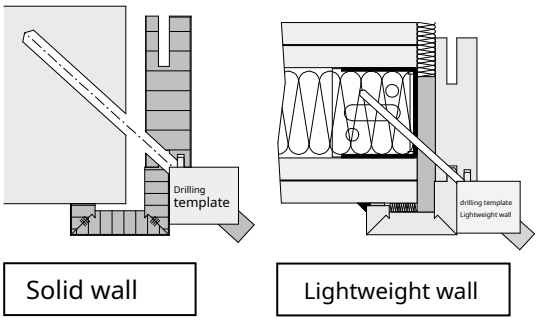
In order to precisely drill the holes for the screw connections, we recommend using the PRÜM drilling template!

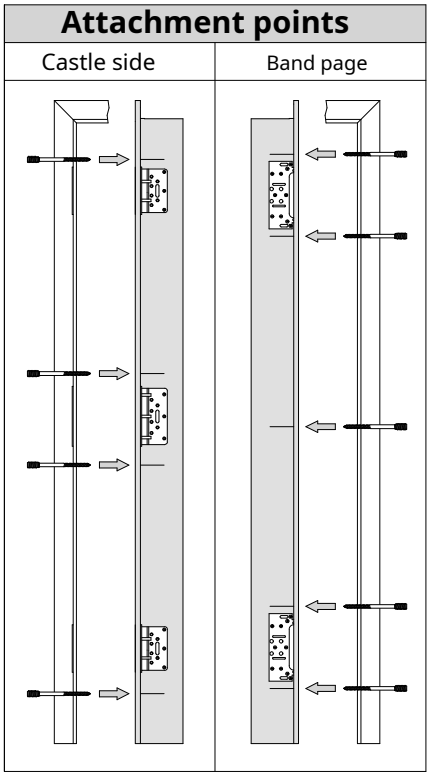
-Drilling template for solid walls – Item No.: 0000006699

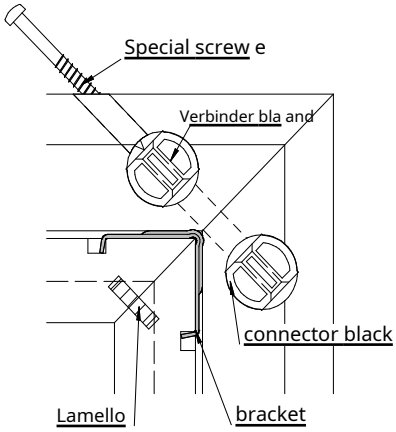
-Drilling template for lightweight walls – Item No.: 0003227477 **(Please note the separate assembly instructions for the drilling templates!)**

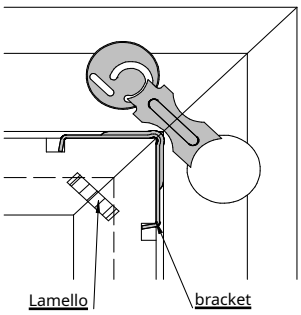
2. Pre-assembly of the door frame

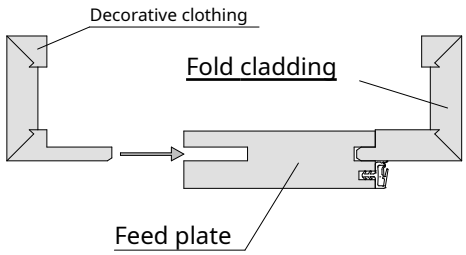
- Remove seals from the groove of the door frame
- Apply glue to the miter surfaces and into the Lamello grooves
- Insert lamellas into the groove
- Connect chuck parts with the appropriate connectors
- Ensure that the mitres are flush
- Clip on miter clamps
- Optional: Apply glazing tape (for better silicone application)
  (The tiling tape is not required for soundproofing purposes!)







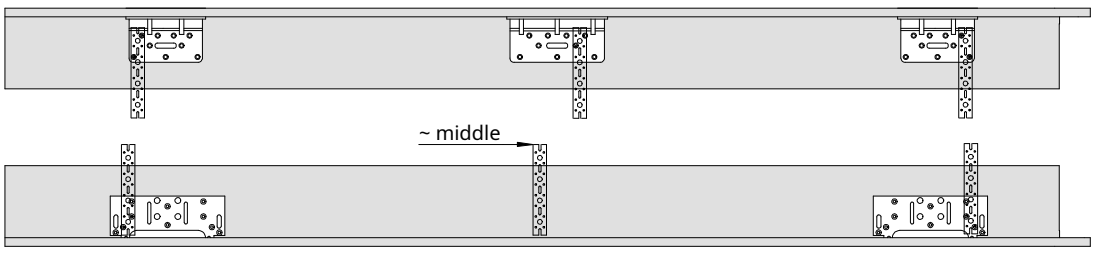




T30RS-1 EH3 SK3-12 / T30RS-1 EH3 SK4-13 - screw on the enclosed perforated strips

Screws 4 x 20 mm - 3 pieces per strip (screw to the retaining plates)

Attention: do not screw in the rebate area!



3. Procedure for masonry / lightweight wall:

- Align the door frame in the wall opening, block it, and apply pressure-resistant backing to the entire surface of the fittings. (Tip: Glue or screw the blocking.)
- Foam / backfill cavities completely

4a. Procedure for solid walls :

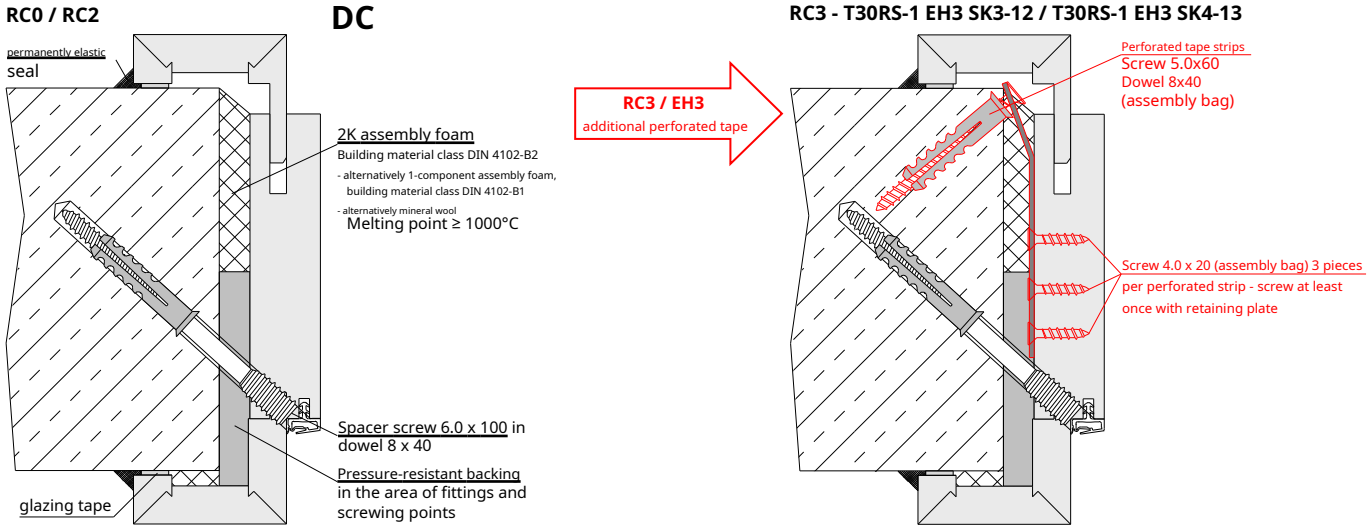
- Place the drilling template with the spring in the sealing groove
- Pre-drill the door frame with a Ø 8 wood drill through the sleeve
- Pre-drill through the sleeve into the wall using a masonry drill bit Ø 8
- Insert dowel (vertical expansion direction)
- Screw in spacer screws
- For T30RS-1 EH3 SK3-12 / SK4-13, screw the perforated strip to the wall on the opposite side of the rebate

4b. Procedure for lightweight walls :

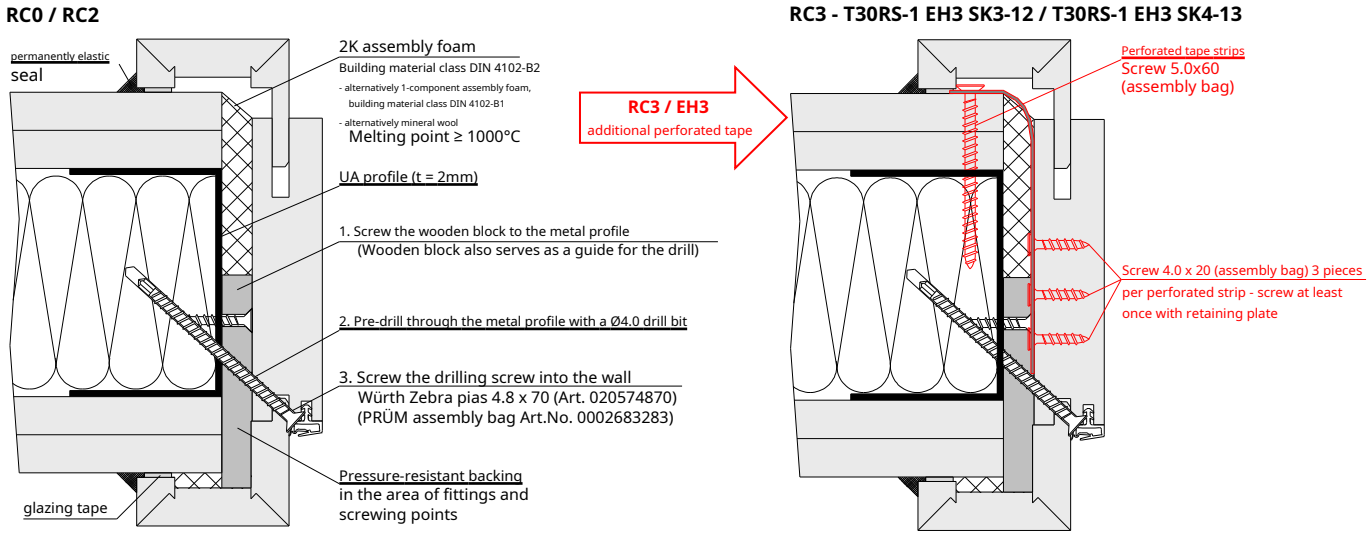
- Insert the drilling template for the lightweight wall with the spring into the sealing groove (see above!)
- Pre-drill the door frame and the metal profile of the lightweight wall using a metal drill bit Ø 4 through the sleeve of the drilling template (metal drill bit included in the delivery scope of the drilling template)
- Screw the screw with the drill head through the metal profile into the wall
- For T30RS-1 EH3 SK3-12 / SK4-13, screw the perforated strip to the wall on the opposite side of the rebate

6. Press the seal into the groove without stretching it!
7. Install decorative trim (glue spot by spot if necessary)
8. Seal all connections with a permanently elastic sealant (e.g. silicone, acrylic)
9. Hang the door leaf and check for functionality

Installation of door frame in solid wall (wall construction according to approval)

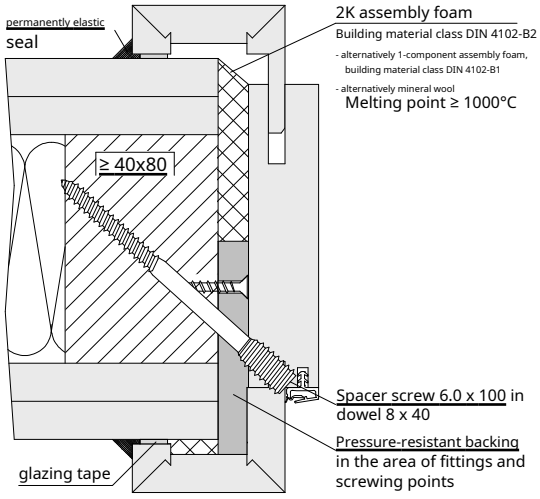


Installation of door frame in lightweight wall with metal stud frame (wall construction according to approval)



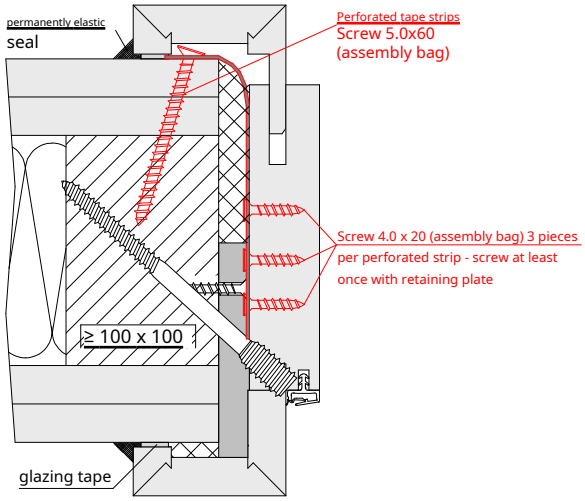
Installation of door frame in lightweight wall with timber stud frame (wall construction according to approval)

RC0 / RC



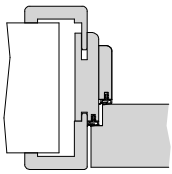
RC3 / EH3
additional perforated tape

RC3 - T30RS-1 EH3 SK3-12 / T30RS-1 EH3 SK4-13



A notice:
The fold area (circulating air) must be completely foamed to a depth of 150mm.

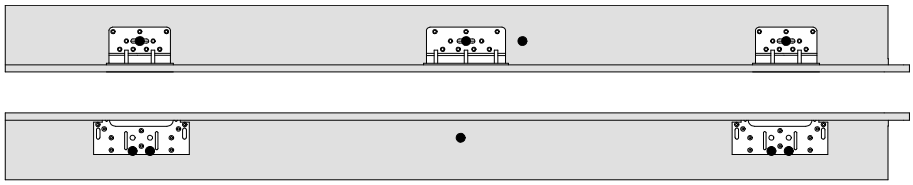
Door frames with 2 seals receive a doubling that must be installed on site.

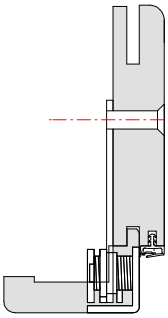


For further information on attaching the doubling, see Chapter 6.3

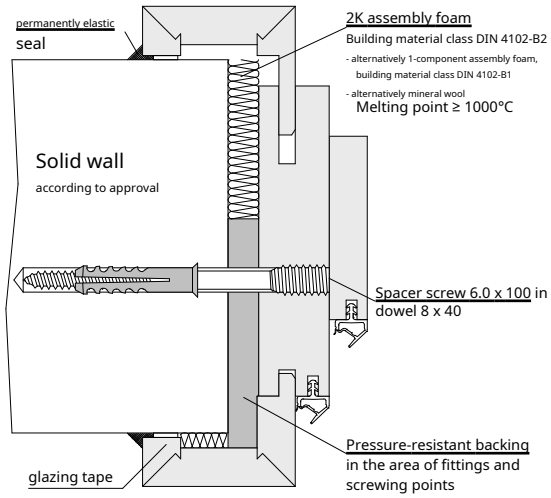
6.2. Installation instructions for door frames with doubling

Detail fixing points for RC3 - fire doors with double rebate: 4 fixing points on the lock side 5 fixing points on the hinge side

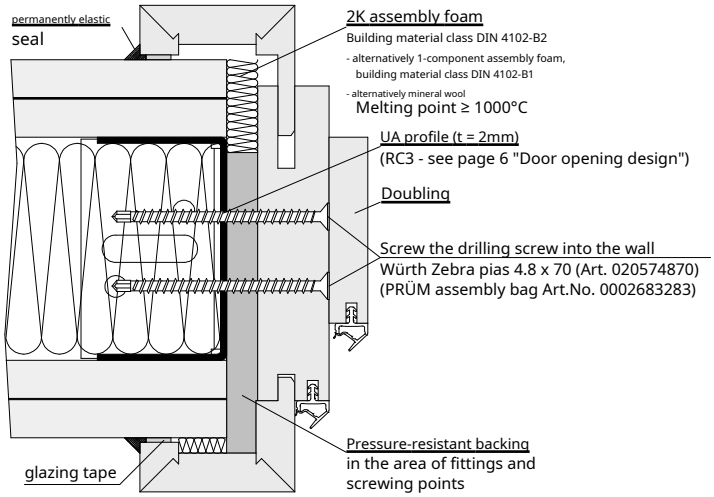




Fastening door frames in solid walls



Fastening door frames in lightweight walls

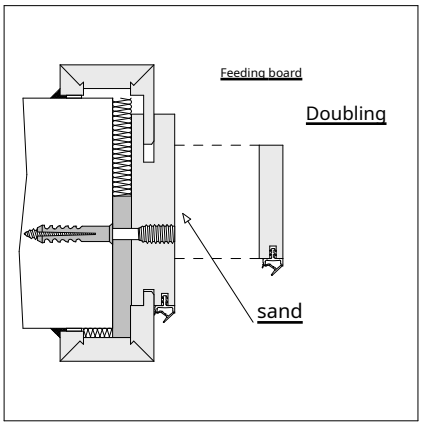


A notice:
The fold area (circulating air) must be completely foamed to a depth of 150mm.

6.3 Important information on applying the doubling to double-rebate door frames

The first step is to install the door frame without the overlay according to the included installation instructions. The screws are screwed through the frame board into the wall. The door is then hung and adjusted. The next step is to install the included overlay according to the following instructions. (The overlay in the crosspiece is already pre-assembled by PRÜM.)

1. First sand the lining board in the area of the doubling (first mark the position of the doubling)

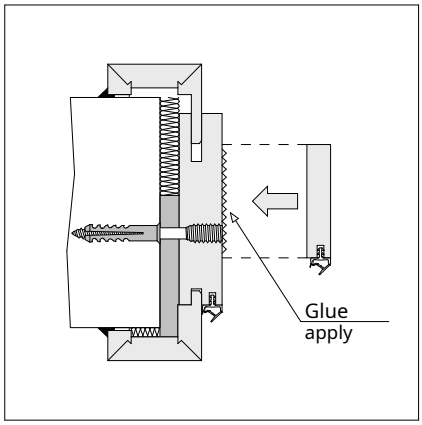


2. Clean the lining board and doubling

Important:	All contact surfaces must be clean, dust-free and grease-free before bonding!

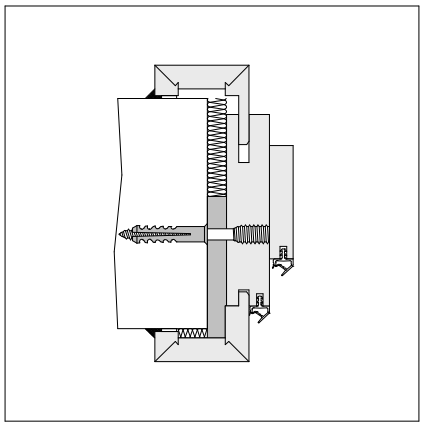
3. Apply a thin layer of construction adhesive to the sanded surface of the lining board

(Recommendation: e.g. UHU Poly Max-Extreme, Hotrega MS/PU, silicone ...)



Danger:	Only use mounting adhesive/silicone for non-absorbent surfaces! Mounting adhesives that require absorbent surfaces are not suitable!

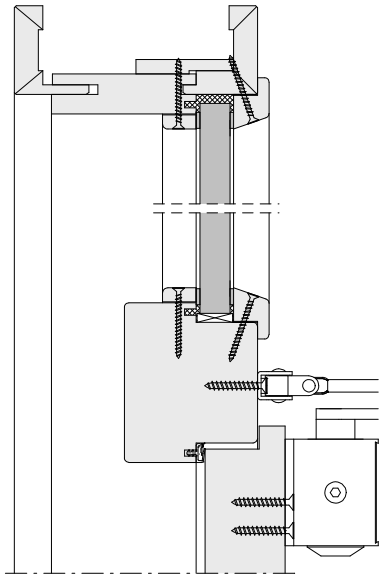
4. The upright doublings taking into account the rebate size/ sealing pressure when closed
Attach the door leaf to the lining board (spread, use clamps)



Tip:	To prevent the doubling from slipping, double-sided adhesive tape can be applied at certain points.

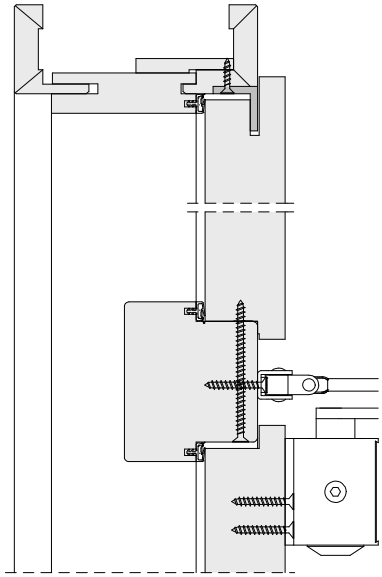
6.4. Installation instructions for door frame with fanlight and top panel

Door frame with fanlight and transom



1. Dowel and screw the transom to the door frame. (Dowel Ø 10 x 60, Spax 5.0 x 60)
2. Attach the door frame to the wall opening according to the installation instructions.
3. Internal glazing beads have already been installed at the factory.
4. Apply tiling tape
5. Insert the glass pane (only use the supplied fire-resistant glass!). The glass pane must be blocked at the sides and bottom, leaving approximately 5 mm of air space around the pane. The surrounding aluminum strip must not be damaged!
6. Circumferential air gap between glass pane and frame **completely and seamlessly with silicone**fill out.
7. Apply glazing beading tape to the glass retaining strips and screw them into the frame using Würth Assy 3.0x50 screws. (Mounting box 3 for skylight)

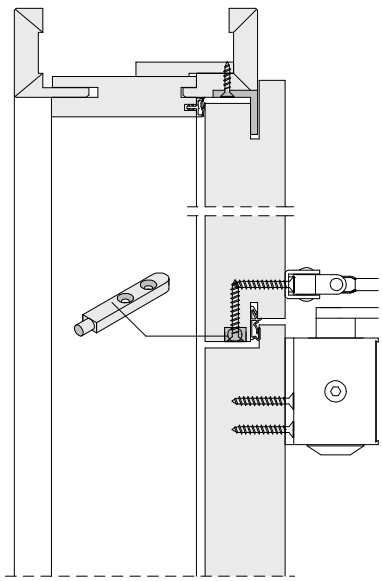
Door frame with upper panel and transom



1. Dowel and screw the transom to the door frame. (Dowel Ø10 x 60, Spax 5.0 x 60)
2. Attach the door frame to the wall opening according to the installation instructions.
3. Screw the steel angles tight with Spax 4.0 x 20 screws.
4. Insert the top panel with the upper groove into the steel angles and fold it into the opening.
5. Align the top panel so that the lateral rebate air gap is evenly distributed.
6. Pre-drill the upper panel through the holes in the transom
7. Screw the top panel from below using Spax 5.0 x 80 screws through the pre-drilled holes in the transom.

A notice: The door leaf should be be adjusted (escape).

Door frame with upper panel without transom

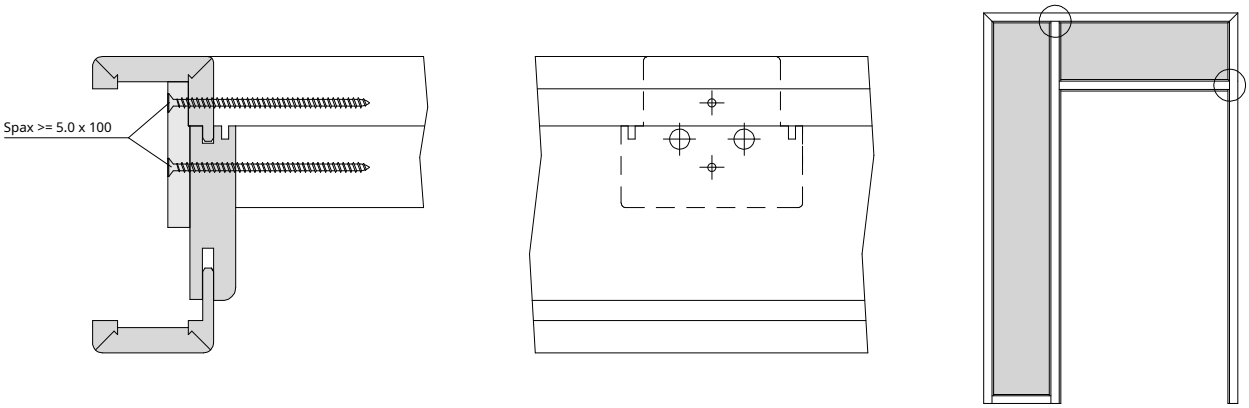


1. Attach the door frame to the wall opening according to the installation instructions.
2. Screw the steel angles tight with Spax 4.0 x 20 screws.
3. Slide the top panel upwards in the frame until the steel brackets on the frame engage the groove of the top panel. A uniform rebate gap of approximately 3.5 mm at the sides and top can be achieved by backing it with hardboard strips.
4. Mark and drill a 10 mm diameter hole in the frame rebate for the lower top panel brackets. Insert the top panel brackets into the side holes and screw them into the top panel using two Spax 4.5 x 35 screws.

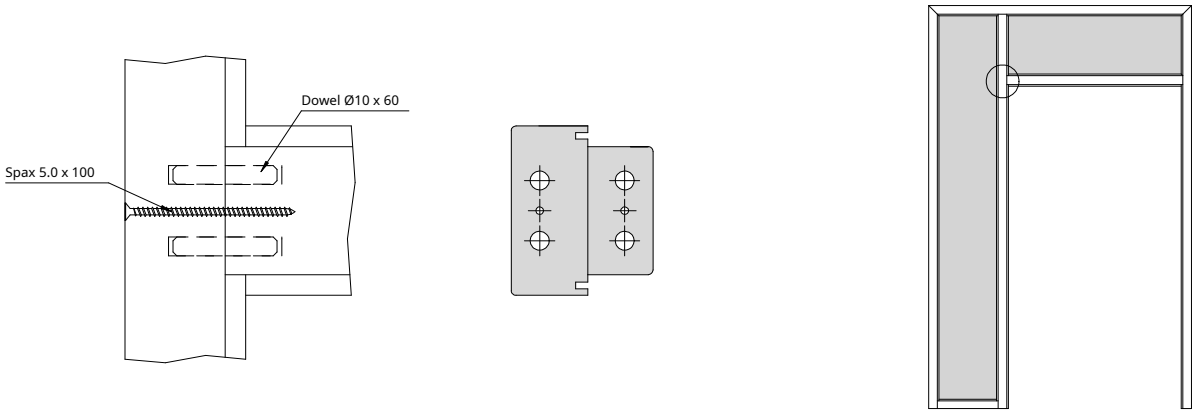
A notice: If the top panel has a strike bar, this must must be shortened and adjusted on site!

6.5. Installation instructions for door frame with windbreak

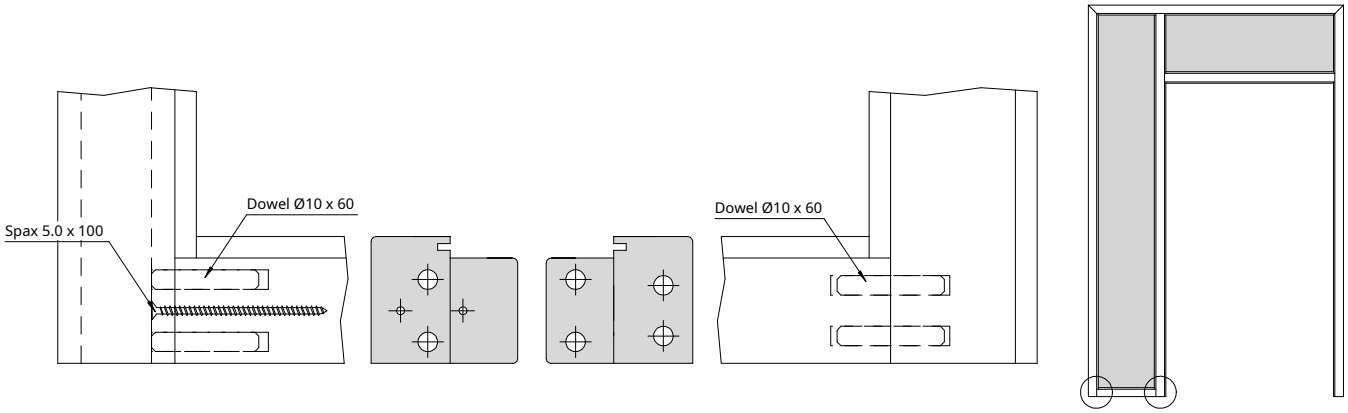
1. Connect the transom upright and/or crosswise to the frame.
   Apply glue to the front surface of the transom and connect it with the included 5.0 x 100 screws. The frame and transom are pre-drilled.



2. Connect the fighter crosswise with the fighter upright.
   Apply glue to the front surface of the transom and into the dowel holes.
   Press the dowels into the transom face and connect them to the upright transom. To ensure optimal tightening, the transom is additionally secured with a screw. Use four 10 x 60 dowels and one 5.0 x 100 Spax screw per connection. The transoms are pre-drilled.



3. Base impost to frame / base impost to upright impost:
   Apply glue to both ends and into the dowel holes. Screw to the frame using Spax 5.0 x 100 screws, and connect to the upright transom using only two 10 x 60 dowels.



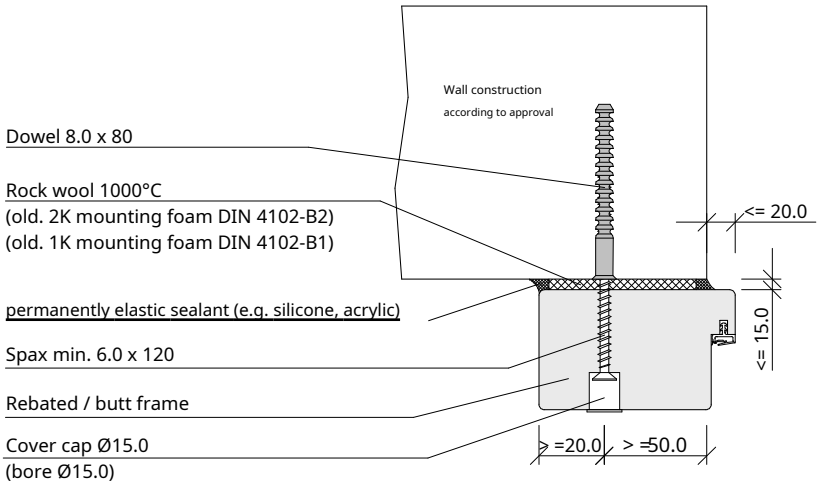
7. Installation of frame

7.1. Installation instructions for frame

1. Apply white glue to the miter surfaces and in the lamella grooves
2. Insert lamellos into the grooves
3. screw the 3 frame parts together neatly
4. Pre-drill screw connection points
5. Align the frame in front of the wall opening and place it under the frame if necessary
6. Fasten the frame according to the corresponding illustration (additional fastening may be required depending on static requirements)
7. Hang the door leaf and check for functionality
8. All connections and any leaks must be sealed with permanent elastic sealant (e.g. silicone, acrylic)

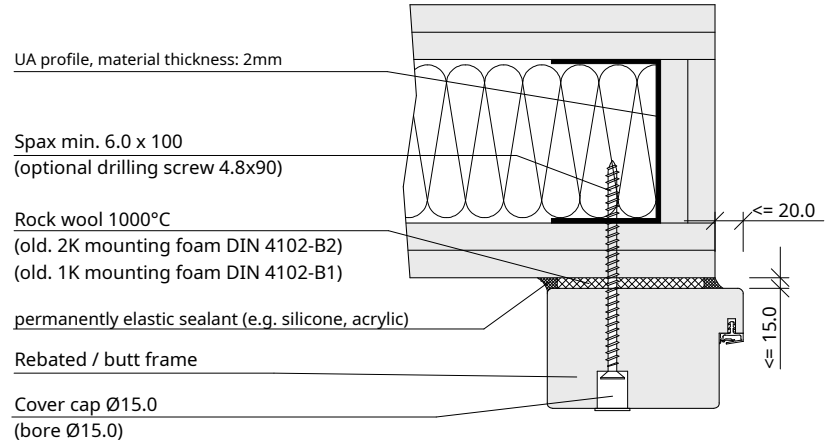
Solid wall

Wall construction according to approval



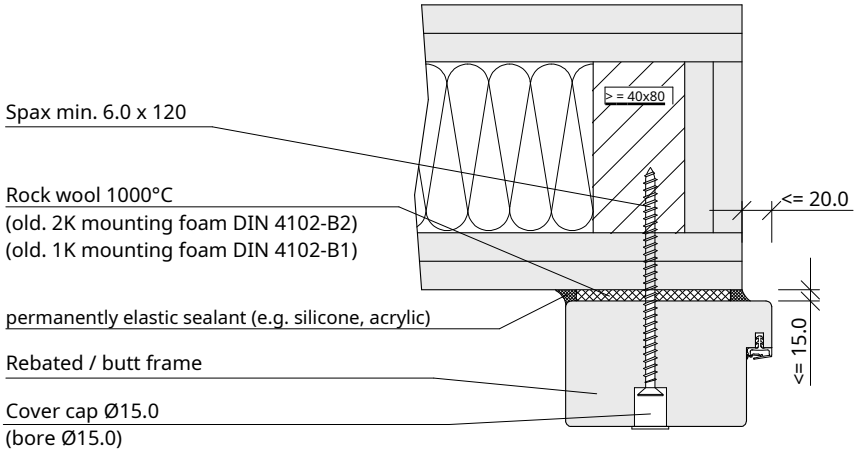
assembly wall
DIN 4102-4 – Table 10.2

Wall construction according to approval



assembly wall
DIN 4102-4 – Table 10.3

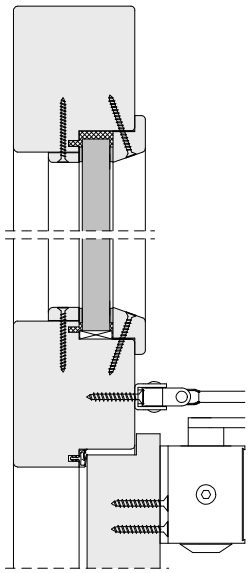
Wall construction according to approval



<u>Notice</u> : Glue the frame with burglar protection to the wall completely with silicone!

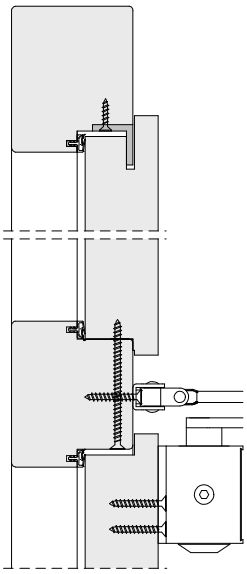
7.2. Installation instructions for frame with skylight and top panel

Frame with skylight and transom



1. Dowel the transom to the frame (dowel Ø 10 x 80).
2. Attach the frame to the wall according to the installation instructions.
3. Internal glazing beads have already been installed at the factory.
4. Apply tiling tape
5. Insert the glass pane (only use the supplied fire-resistant glass!). The glass pane must be blocked at the sides and bottom, leaving approximately 5 mm of air space around the pane. The surrounding aluminum strip must not be damaged!
6. Circumferential air gap between glass pane and frame **completely and seamlessly with silicone**fill out.
7. Apply glazing beading tape to the glass retaining strips and screw them to the frame using Würth Assy 3.0x50 screws. (Mounting box 3 for skylight)

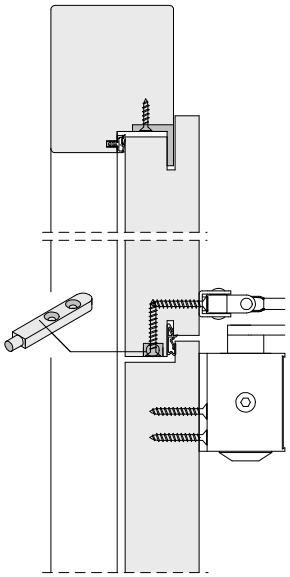
Frame with top panel and transom



1. Dowel the transom to the frame (dowel Ø 10 x 80).
2. Attach the frame to the wall according to the installation instructions.
3. Screw the steel angles tight with Spax 4.0 x 20 screws.
4. Insert the top panel with the upper groove into the steel angles and fold it into the opening.
5. Align the top panel so that the lateral rebate air gap is evenly distributed.
6. Pre-drill the upper panel through the holes in the transom
7. Screw the top panel from below using Spax 5.0 x 80 screws through the pre-drilled holes in the transom.

A notice: The door leaf should be be adjusted (escape).

Frame with top panel without transom

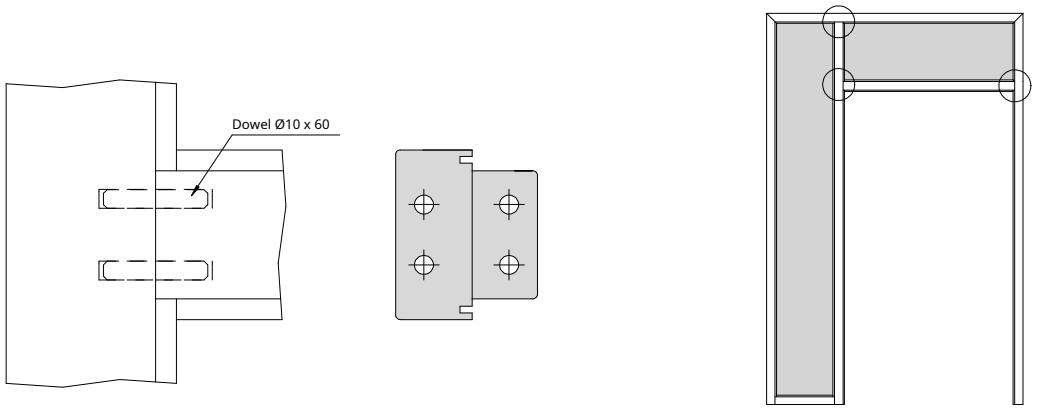


1. Attach the frame to the wall according to the installation instructions.
2. Screw the steel angles tight with Spax 4.0 x 20 screws.
3. Push the top panel upwards in the frame so that the steel angles on the frame engage in the groove of the top panel. The lateral and upper uniform rebate clearance of ~ 3.5 mm can be achieved by backing with hardboard strips.
4. Mark and drill a 10 mm diameter hole in the frame rebate for the lower top panel brackets. Insert the top panel brackets into the side holes and screw them into the top panel using two Spax 4.5 x 35 screws.

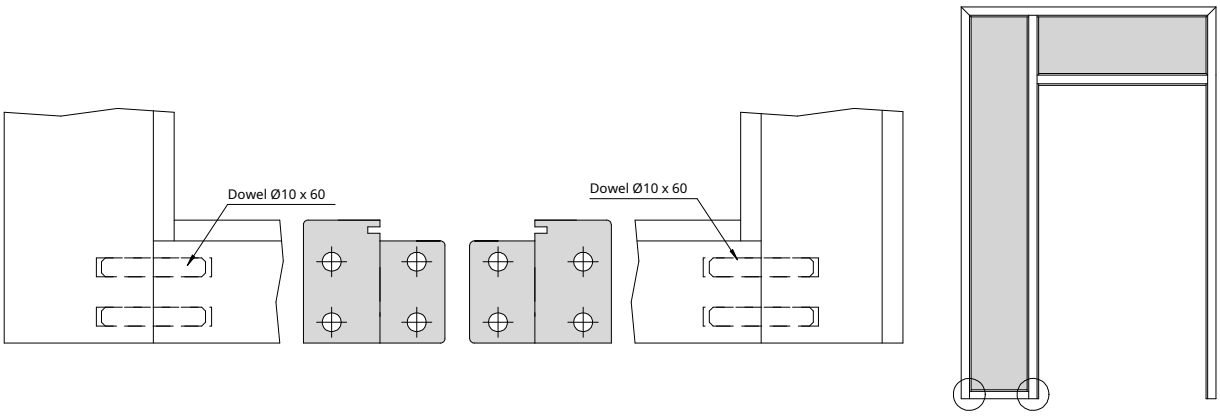
A notice: If the top panel has a strike bar, this must must be shortened and adjusted on site!

7.3. Installation instructions for frame with windbreak

1. Attach the transom to the frame or transom vertically and/or crosswise.
   Apply glue to the transom face and into the dowel holes.
   Press the dowels into the transom face and connect them to the upright transom of the frame.
   Use 4 dowels (Ø10 x 60 mm) per connection. The transoms are pre-drilled.



2. Base impost to frame / base impost to upright impost:
   Apply glue to both end faces and into the dowel holes. Press the dowels into the transom end face and connect them to the upright transom/frame. Use four 10 x 60 mm dowels per joint.



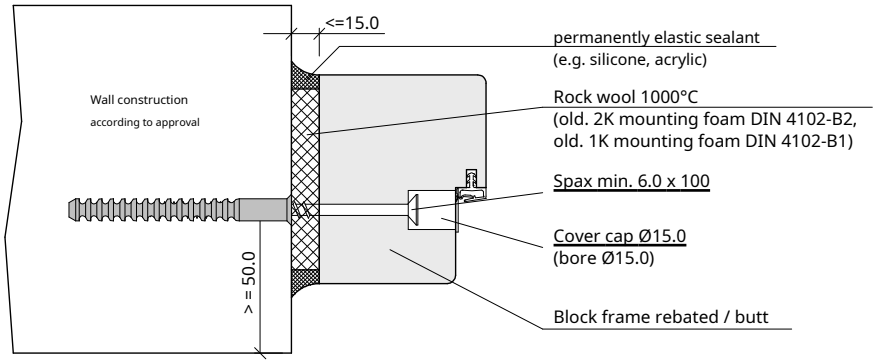
8. Assembly block frame

8.1. Assembly instructions for block frames

1. Apply white glue to the miter surfaces and in the lamella grooves
2. Insert lamellos into the grooves
3. screw the 3 block frame parts neatly together
4. Pre-drill screw connection points
5. Align the block frame and place pressure-resistant supports in the area of the fittings
6. Fasten the block frame according to the corresponding diagram (see next page) (additional fastening may be required according to static requirements)
7. All connections and any leaks must be sealed with a permanently elastic seal (e.g. silicone, acrylic)
8. Hang the door leaf and check for functionality

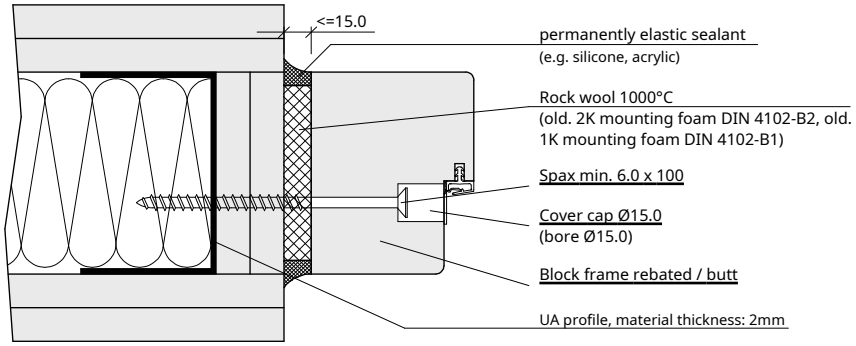
Solid wall

Wall construction according to approval



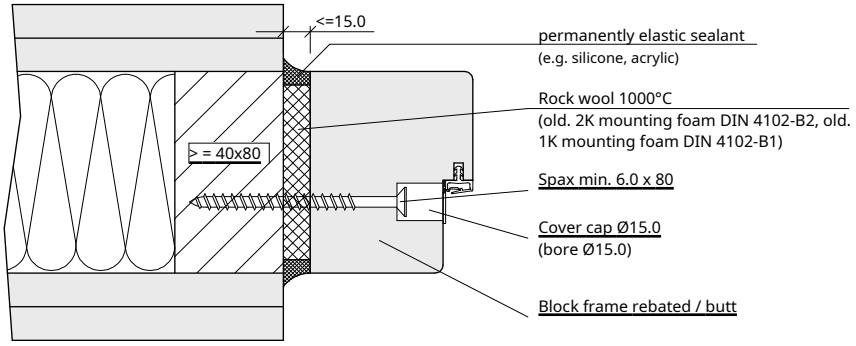
assembly wall
DIN 4102-4 – Table 10.2

Wall construction according to approval



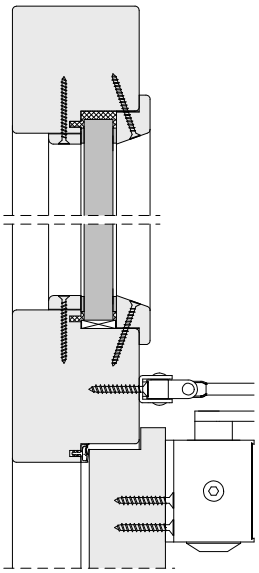
assembly wall
DIN 4102-4 – Table 10.3

Wall construction according to approval



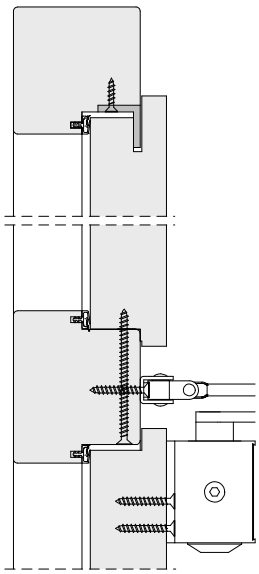
8.2. Installation instructions for block frames with skylight and top panel

Block frame with skylight and transom



1. Dowel the transom to the block frame (dowel Ø 10 x 80).
2. Fasten the block frame into the wall opening according to the installation instructions.
3. Internal glazing beads have already been installed at the factory.
4. Apply tiling tape
5. Insert the glass pane (only use the supplied fire-resistant glass!). The glass pane must be blocked at the sides and bottom, leaving approximately 5 mm of air space around the pane. The surrounding aluminum strip must not be damaged!
6. Circumferential air gap between glass pane and block frame **completely and seamlessly with silicone**fill out.
7. Apply glazing beads with glazing tape and screw them to the block frame using Würth Assy 3.0x50 screws. (Mounting box 3 for skylight)

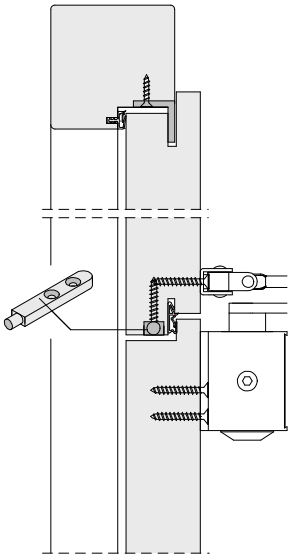
Block frame with upper panel and transom



1. Dowel the transom to the block frame (dowel Ø 10 x 80).
2. Fasten the block frame into the wall opening according to the installation instructions.
3. Screw the steel angles tight with Spax 4.0 x 20 screws.
4. Insert the top panel with the upper groove into the steel angles and fold it into the opening.
5. Align the top panel so that the lateral rebate air gap is evenly distributed.
6. Pre-drill the upper panel through the holes in the transom
7. Screw the top panel from below using Spax 5.0 x 80 screws through the pre-drilled holes in the transom.

A notice: The door leaf should be be adjusted (escape).

Block frame with upper panel without transom

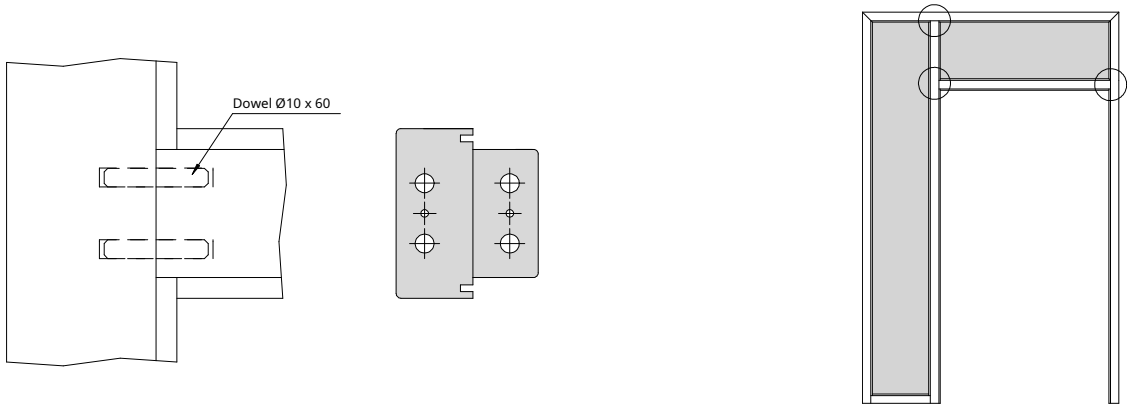


1. Fasten the block frame into the wall opening according to the installation instructions.
2. Screw the steel angles tight with Spax 4.0 x 20 screws.
3. Slide the top panel upwards in the frame until the steel brackets on the frame engage the groove of the top panel. A uniform rebate gap of approximately 3.5 mm at the sides and top can be achieved by backing it with hardboard strips.
4. Mark and drill a 10 mm diameter hole in the frame rebate for the lower top panel brackets. Insert the top panel brackets into the side holes and screw them into the top panel using two Spax 4.5 x 35 screws.

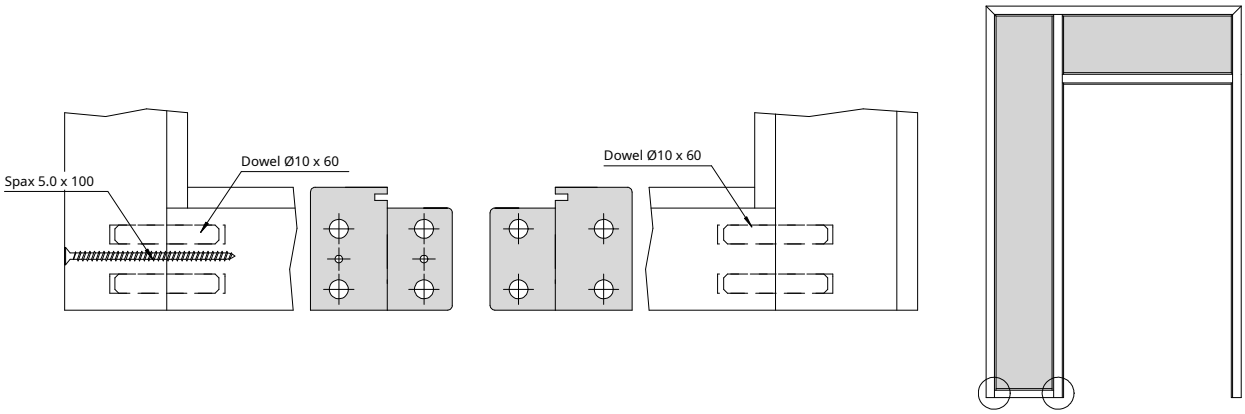
A notice: If the top panel has a strike bar, this must must be shortened and adjusted on site!

8.3. Assembly instructions for block frames with windbreak

1. Attach the transom to the frame or transom vertically and/or crosswise.
   Apply glue to the transom face and into the dowel holes.
   Press the dowels into the transom face and connect them to the upright transom/frame. To ensure optimal tightening, the transom is additionally secured with a screw. Use four dowels (Ø10 x 60) and two Spax screws (5.0 x 100) per connection. The transoms are pre-drilled.

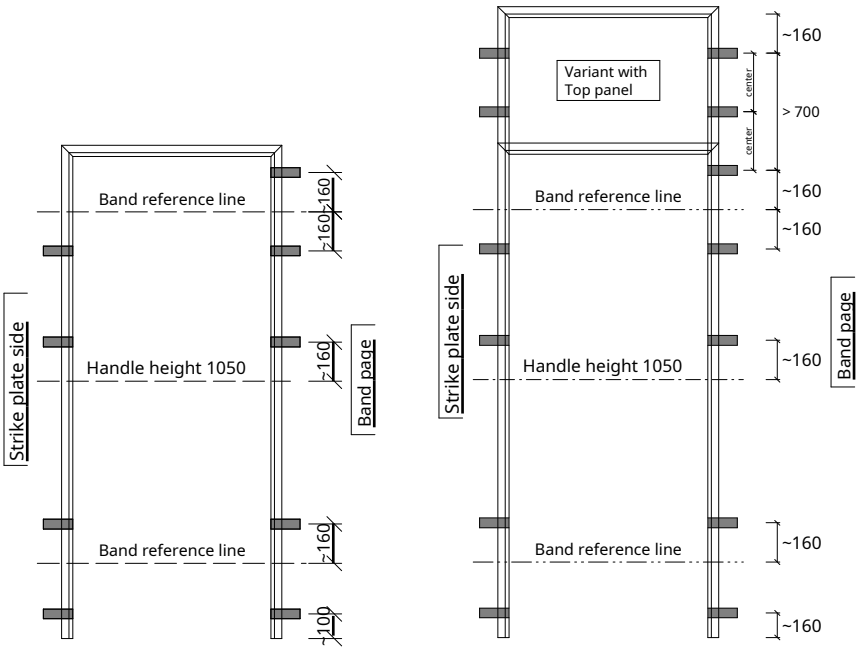


2. Base impost to frame / base impost to upright impost:
   Apply glue to both end faces and into the dowel holes. Press the dowels into the transom end face and connect them to the upright transom/frame. Attach each joint with four Ø10 x 60 dowels. On the frame side, additionally fasten with two Spax screws 5.0 x 100.



9. Assembly of steel frame

9.1. Mounting positions for steel frames



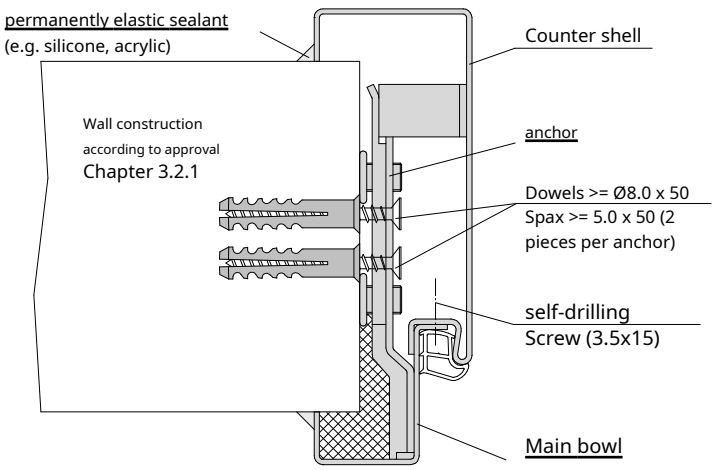
Further information:
All connecting joints must be filled with permanently elastic sealing compound (e.g. silicone, acrylic). For steel frames that are 100% mortared and plastered, sealing is not required.

For wider steel frames
(e.g. 2-wing / windscreen) there are additional anchors in the frame crosspiece

9.2. Installation of steel frame in solid wall

9.2.1. Double-shell frame with flat anchor

1. Align the main shell in the wall opening. (Note the rebate width.)
2. Screw the main shell into the wall opening and backfill, see drawing
3. Join the counter and main shells together and screw them together (max. 4 Nm) (backfill the counter shell)
4. Insert the hollow chamber seal.
5. Hang the door leaf and adjust the fittings and rebate clearance



Backfill main shell

Variant 1: Main bowl optionally filled with Mineral wool A1, mortar or plaster

Variant 2: Mirror lined with plasterboard strips or plaster, rest of the main shell filled with 2K foam or mineral wool A1

Backfill counter shell

Variant 1: Counter shell without filling

Variant 2: optionally filled with 2K / 1K Expansion foam or mineral wool A1.

Note on burglary protection

For elements with burglar protection, the main shell must be completely mortared to ensure compressive strength!

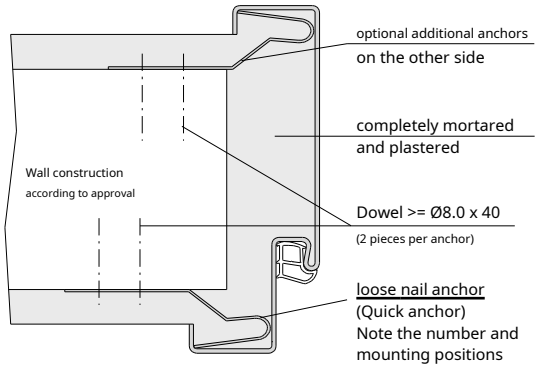
Note on sound insulation

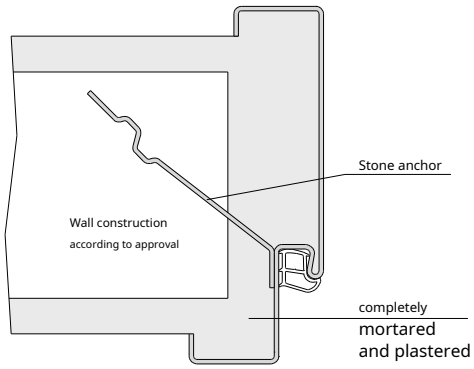
For elements with sound insulation, the counter shell must be fully backfilled!

To get the expansion foam behind the second shell, holes can be drilled under the seal. These holes can then be used to completely fill the second shell with foam using a foam gun.
(Notice : Foam holes can also be ordered!)

9.2.2. Surrounding frame with nail anchor / stone anchor

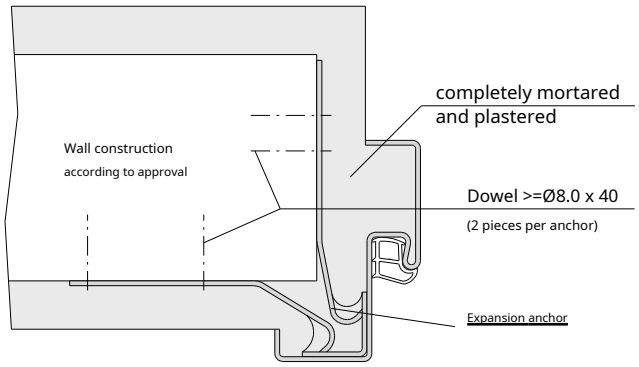
1. Mark and cut out the recesses for the anchors in the wall reveal (note OFF)
2. Align the frame, spread it out and mortar or screw in the wall anchors.
3. Fill the frame completely with mortar, also across the top
4. Hang the door leaf and adjust the fittings and rebate clearance

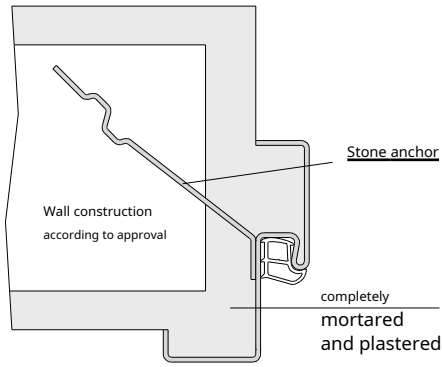




9.2.3. Corner frames with nail anchors / stone anchors

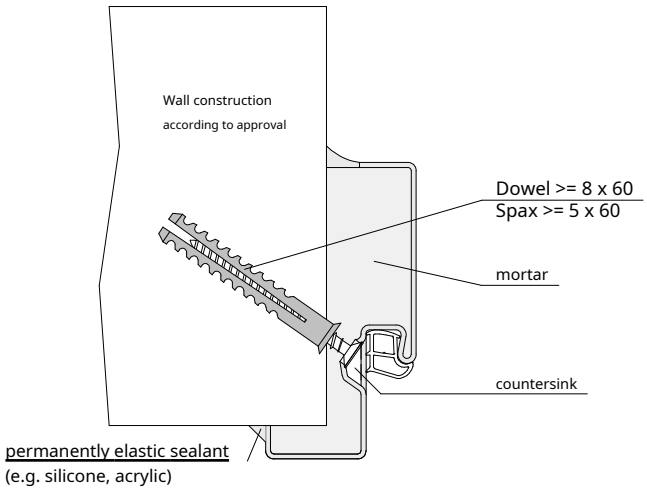
1. Mark and cut out the recesses for the anchors in the wall reveal (note OFF)
2. Align the frame, spread it out and mortar or screw in the wall anchors.
3. Fill the frame completely with mortar, also across the top
4. Hang the door leaf and adjust the fittings and rebate clearance





9.2.4. Corner frame with screw connection under the seal

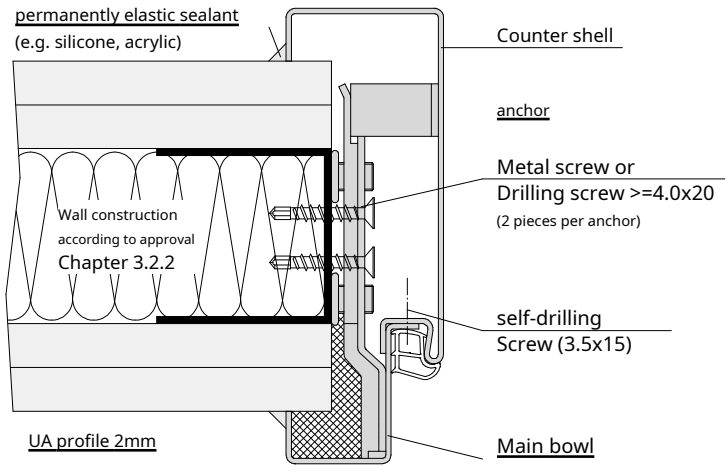
1. Align and spread the frame
2. Drill and insert dowels
3. Screw the frame to the wall
4. Fill the frame completely with mortar, also across the top
5. Hang the door leaf and adjust the fittings and rebate clearance



9.3. Installation of steel frame in lightweight wall - metal stud frame

9.3.1. Double-shell frame with flat anchor

1. Align the main shell in the wall opening. (Note the rebate width.)
2. Screw the main shell tight and backfill, see drawing
3. Join the counter and main shells together and screw them together (max. 4 Nm) (backfill the counter shell)
4. Insert the hollow chamber seal.
5. Hang the door leaf and adjust the fittings and rebate clearance



Backfill main shell

Variant 1: Main shell optionally filled with mineral wool A1, mortar or gypsum

Variant 2: Mirror lined with plasterboard strips or plaster, rest of the main shell filled with 2K foam or mineral wool A1

Backfill counter shell

Variant 1: Counter shell without filling

Variant 2: optionally filled with 2K / 1K Expansion foam or mineral wool A1.

Note on burglary protection

For elements with burglar protection, the main shell must be completely mortared to ensure compressive strength!

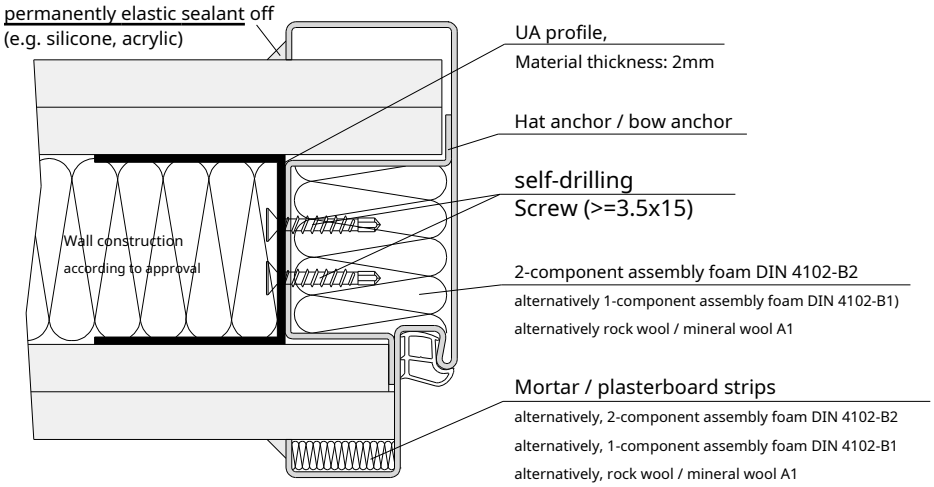
Note on sound insulation

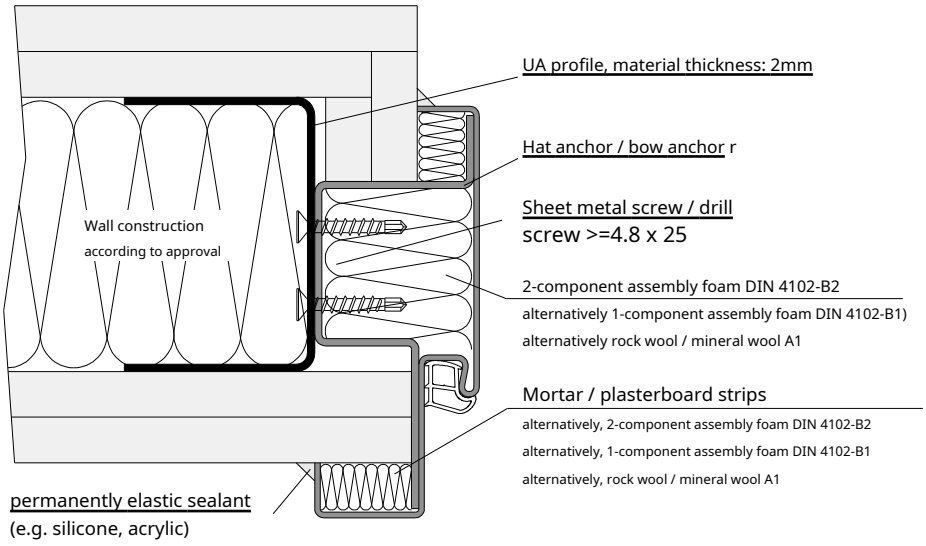
For elements with sound insulation, the counter shell must be fully backfilled!

To get the expansion foam behind the counter-shell, holes can be drilled under the seal. These holes allow the foam gun to be used to completely fill the counter-shell with foam.
(Notice : Foam holes can also be ordered!)

9.3.2. Surrounding frame and corner frame - wall-accompanying installation

1. Position the frame in the room and set the floor and ceiling profiles (note OFF!)
2. Insert the vertical stud profile and screw it to the anchors of the frame
3. Check the fit of the frame and attach the second vertical stud profile in the same way
4. Professionally connect vertical stud profiles to the floor and ceiling profile
5. Backfill the frame face on the rebate side, push the wall paneling behind the frame face and screw it to the wall studs.
6. Backfill the frame, also across the top
7. Hang the door leaf and adjust the fittings or rebate clearance





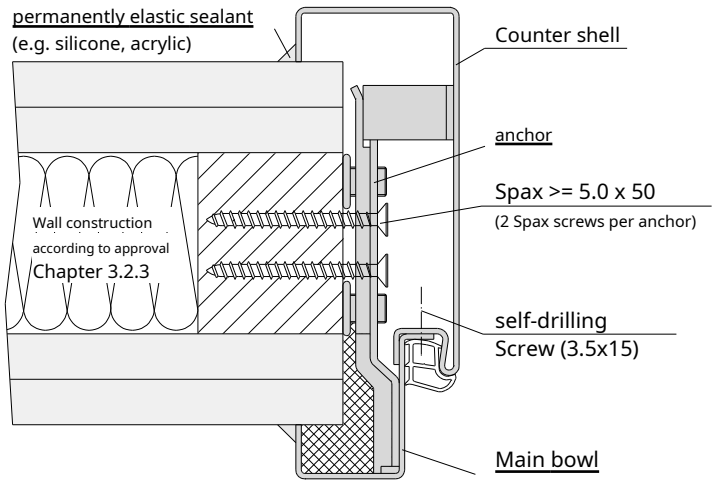
A notice: For elements with burglar protection, the plasterboard must be pushed tightly against the first shell!!

To get the assembly foam behind the counter-shell, holes can be drilled under the seal. These holes allow the counter-shell to be completely filled with foam using a foam gun. (Notice : Foam holes can also be ordered!)

9.4. Installation of steel frame in lightweight wall - timber stud frame

9.4.1. Double-shell frame with flat anchor

1. Align the main shell in the wall opening. (Note the rebate width.)
2. Screw the main shell tight and backfill.
3. Join the counter and main shells together and screw them together (max. 4 Nm) (backfill the counter shell)
4. Insert hollow chamber seal
5. Hang the door leaf and adjust the fittings and rebate clearance



Backfill main shell

Variant 1: Main shell optionally filled with mineral wool A1, mortar or gypsum

Variant 2: Mirror lined with plasterboard strips or plaster, rest of the main shell filled with 2K foam or mineral wool A1

Backfill counter shell

Variant 1: Counter shell without filling

Variant 2: optionally filled with 2K / 1K Expansion foam or mineral wool A1.

Note on burglary protection

For elements with burglar protection, the main shell must be completely mortared to ensure compressive strength!

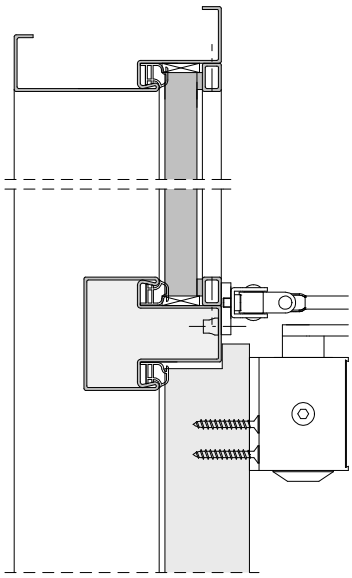
Note on sound insulation

For elements with sound insulation, the counter shell must be fully backfilled!

To get the expansion foam behind the counter-shell, holes can be drilled under the seal. These holes allow the foam gun to be used to completely fill the counter-shell with foam.
(Notice : Foam holes can also be ordered!)

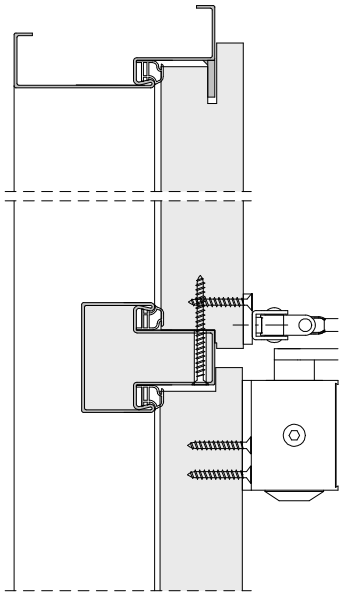
9.5. Installation instructions for steel frames with skylight and top panel

Steel frame with skylight and transom



1. Fasten the steel frame in the wall opening according to the installation instructions
2. Install the seal in the skylight area, making sure that the seal is not stretched.
3. Insert the glass pane (only use the supplied fire-resistant glass!). The glass pane must be blocked on the sides and bottom, leaving approximately 5 mm of air space around the pane. The surrounding aluminum strip must not be damaged!
4. Circumferential air gap between glass pane and steel frame **completely and seamlessly with silicone**fill out.
5. Apply glazing beads with glazing bead tape and attach them to the steel frame using the screws provided.
   (Mounting box 3 for skylight)

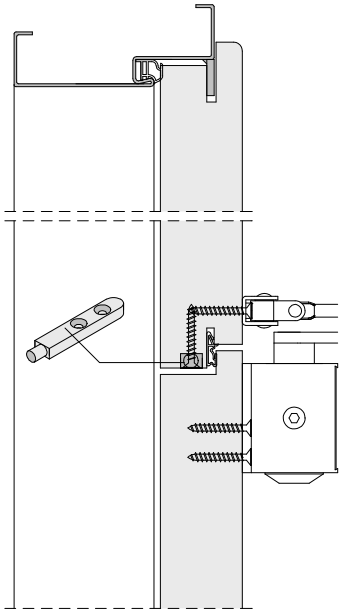
Steel frame with top panel and transom



1. Fasten the steel frame into the wall opening according to the installation instructions.
2. Pull in the seal in the upper panel area and ensure that the seal is not stretched.
3. Insert the top panel with the upper groove into the steel retaining tabs and fold it into the opening.
4. Align the top panel so that the lateral rebate air gap is evenly distributed.
5. Pre-drill the top panel through the holes in the transom.
6. Screw the top panel from below using Spax 5.0 x 60 screws through the pre-drilled holes in the transom.

A notice: The door leaf should be
be adjusted (escape).

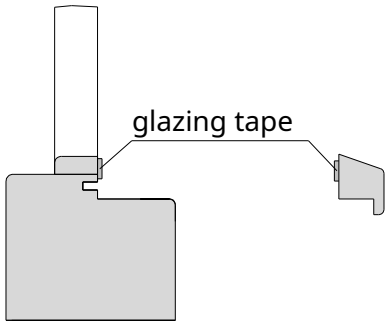
Steel frame with top panel without transom



1. Fasten the steel frame into the wall opening according to the installation instructions.
2. Insert the steel frame seal and ensure that the seal is not stretched.
3. Slide the top panel upwards in the frame until the steel retaining tabs on the frame engage the groove in the top panel. A uniform rebate gap of approximately 3.5 mm at the sides and top must be achieved by backing it with hardboard strips.
4. Mark and drill a 10 mm diameter hole in the frame rebate for the lower top panel brackets. Insert the top panel brackets into the side holes and screw them into the top panel using two Spax 4.5 x 35 screws.

A notice: If the top panel has a strike bar,
This must be shortened and adjusted on site!

10. Glazing side panels and skylight

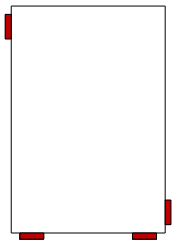


1. Apply the supplied glazing tape to the rear and front glazing beads.
   Prepare approximately 5mm of blocking material at the bottom left and right.

2. Unpack the supplied discs, clean them and check them for damage.

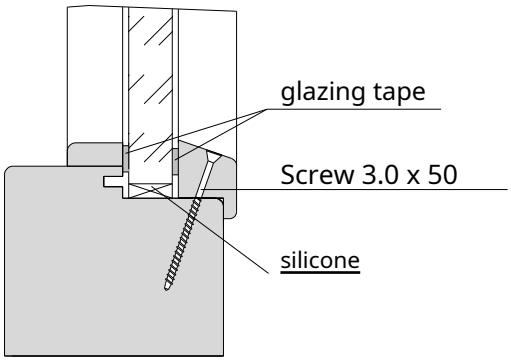
3. Insert the glass pane into the rebate with the stamp facing down. (Only the supplied SCHOTT PYRANOVA fire-resistant glass may be used.) The glass pane must be blocked at the sides and bottom, leaving approximately 5 mm of clearance around the pane (see sketch).

   The surrounding aluminum band must not be damaged!



4. Circumferential air gap between glass and frame**complete and complete**Fill with the included silicone.

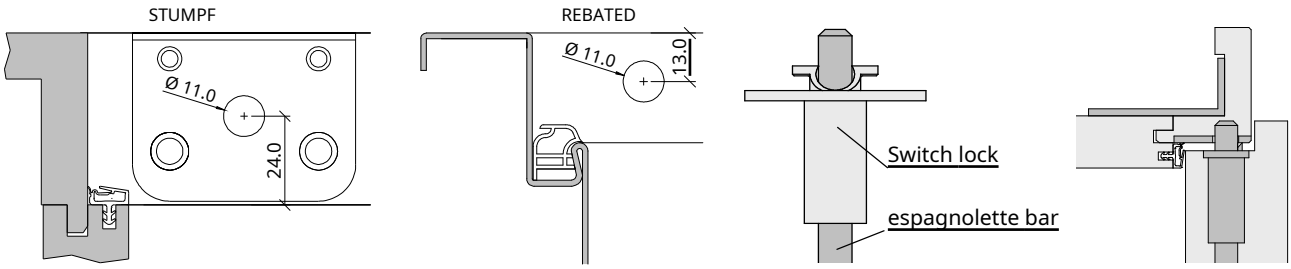
5. Insert glazing beads from the rebate side and screw in place using the supplied 3.0 x 50mm screws.



11. Notes for elements with top locking

Switch lock / deadbolt bar:

• Check the function of the switch lock. The deadbolt must be in the frame crosspiece and in the Fully extend the floor recess. Rework the strike plate if necessary. If the strike plate is not pre-drilled at the factory, the hole (Ø 11 mm) must be drilled on site.



Danger: Before closing the passive leaf, the deadbolt bar must be in the retracted position - Risk of damage to the frame and floor

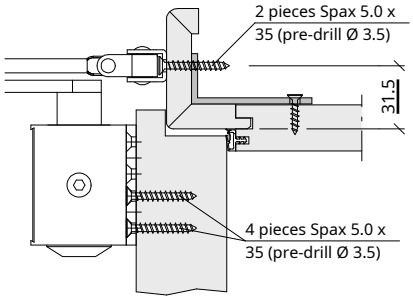
Floor recess:

• Close the passive leaf and mark the position of the deadbolt on the floor
• Install floor recess 30 x 40 – depth > 26 (adjustment range +/- 2mm)

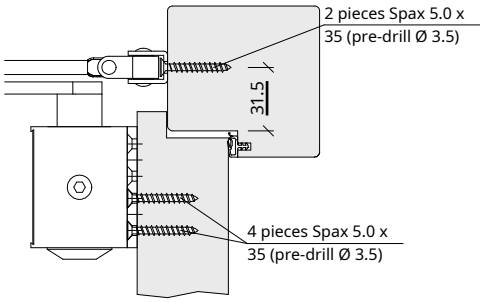
12. Door closer mounting + notes

The supplied overhead door closer, which complies with DIN EN 1154, must be installed according to the enclosed installation instructions. These instructions must be handed over to the customer and retained by the customer. The closing force must be adjusted according to the door closer's installation instructions so that the latch engages the strike plate from any angle (both from 90° and from a smaller opening angle). The closing speed from 90° should be approximately 5 seconds.

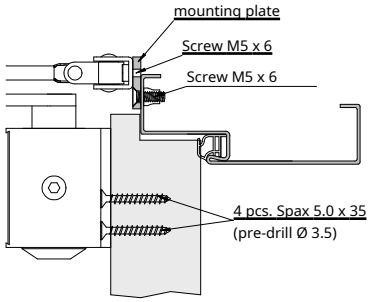
- Note door frame : The lever arm fastening must be pre-drilled with a steel drill Ø 3.5 through the cladding into the aluminum angle behind it and fastened with the screws supplied.
- Note steel frame : For steel frames, a mounting plate must be attached to the frame.
- Note on blind and block frames : Spax screws must be pre-drilled (Ø3.5mm)



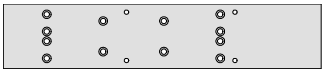
Example door frame



Example of blind and block frames



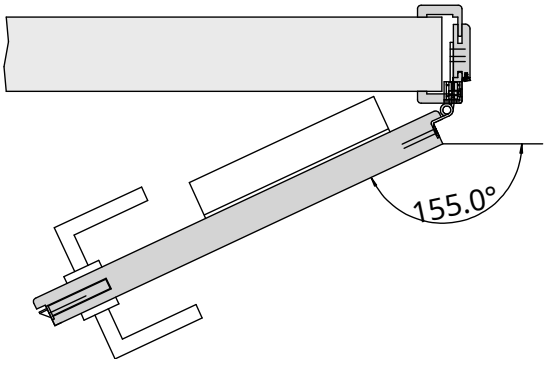
Example steel frame

A notice:	When attaching the door closer to the door leaf, the enclosed mounting plate must be used!	

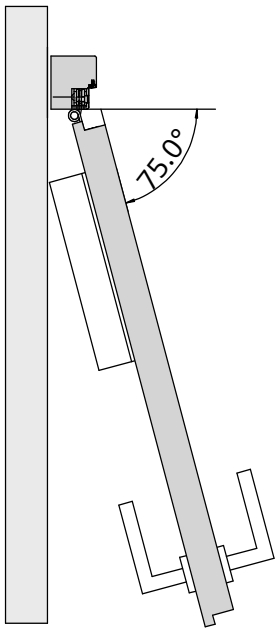
Danger: Note the opening angle!

Please note that the maximum opening angle depends on various parameters (rebate, frame variant, door closer, etc.). A 180° opening is only possible in very rare cases and must be checked in advance, see examples.

For the types "FS-30-1-SK2-RD" and "FS-30-1-SK3-RD", the maximum opening angle is limited to 150° due to the thick cover!



Example 1 :
Door frame with standard door closer



Example 2:
Block frame – "Corridor situation" with standard door closer

13. Instructions for the use of hold-open systems

For the use of hold-open systems, their suitability must be demonstrated by a general building inspectorate approval. For smoke protection closures (RSA), only hold-open systems that respond to the fire characteristic "smoke" are suitable.

The DIBt guidelines for hold-open systems must be observed.
The relevant standards must be observed(e.g. DIN 14677 - Maintenance of hold-open systems)

- In case of fire, the closing process must be initiated by a suitable trigger
- Acceptance testing + maintenance contracts are mandatory
- The installation instructions and instructions of the manufacturer of the locking system must be observed
- The user must be informed of his obligation to maintain the locking system

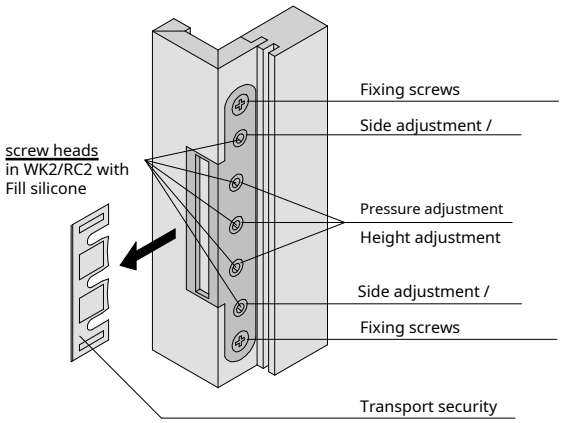
14. Adjustment options for straps

VX bands

The VX hinges allow for three-dimensional adjustment, allowing for small installation tolerances. Before the door can be hung, the transport plate must be removed from the hinge holder (see image below).

Side adjustment:
- Turn the spindle screws of the lateral adjustment in the appropriate direction.
- Adjust both screws evenly to avoid tension on the axis.

Pressure / height adjustment:
- Open the door and secure it with wedges
- Loosen 3 clamping screws per mounting element slightly and
- bring the door into the correct position
- Tighten clamping screws firmly and remove wedges



A notice: In the case of burglar-resistant elements, the screw heads of the VX hinge holder must be filled with silicone after the door has been adjusted to prevent the screws from being unscrewed.

Danger !Before reworking the strike plate because the door is too difficult to close, the seal pressure must be normalized by keeping the door closed!

The following installation clearance must be maintained:

- Joint width hinge side: ≥ 2.0 / ≤ 5.0
- Joint width lock side: ≥ 2.0 / ≤ 5.0 (RC2: ≤ 4.0) ≥
- Joint width at the top: 2.0 / ≤ 5.0
- Joint width below: ≥ 5.0 / ≤ 7.0
- in the middle of double-leaf doors: ≥ 2.0 / ≤ 5.0

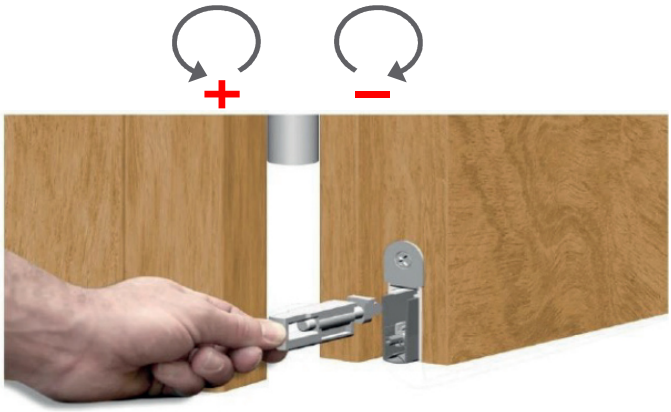
Danger: For locks with a panic function, the gap width at the bottom may not exceed 3.0 mm! (This applies especially to burglar-resistant elements.)

15. Adjustment options for the floor seal

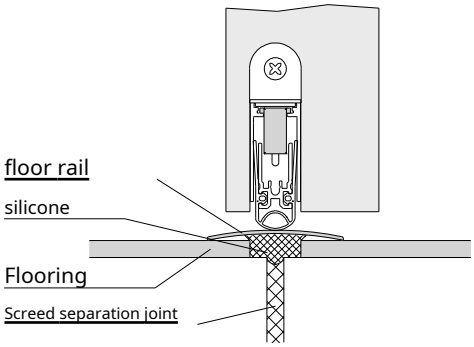
- By turning the end piece, the floor seal is adjusted and then inserted back into the rail (without tools)

- Adjust the height so that the door can be closed easily
- The sealing rubber must be in full contact with the floor covering
- The sealing profile is usually already cut to fit the clear rebate size of the door frame (if not, it must be cut back accordingly).
- For the "sound insulation" function, a floor separation joint is required
- Floor rails must be centered to the floor seal





The door's tightness depends on the condition of the floor covering. For carpeted floors or rough floor surfaces, a metal rail (max. 5 mm high) must be used, which must be permanently sealed to the floor. The floor covering must be cut below the rail in the area of the screed joint and filled with silicone (see diagram).



A notice:
To check the installation, a light source can be placed near the bottom of the door. When the floor seal is correctly adjusted, no light should be visible between the top edge of the floor and the seal lip. Avoid applying excessive pressure to the floor! Excessive contact pressure will lead to increased wear on the seal profile, the mechanism, and the fastening system.

16. Shortening fire and smoke doors

Fire and smoke protection doors (single-leaf) may be shortened by a maximum of 20 mm. Existing grooves must be regrooved to their original depth after shortening. The meter line on the rating plate indicates whether a door has been shortened. The meter line is located 1000 mm from the bottom edge of the door leaf.

17. Maintenance and care instructions

To ensure the long-term protective function of fire and smoke doors, the proper functioning of the accessories must be checked and maintained through regular maintenance, depending on stress and frequency of use. However, the doors should be inspected at least once a year, and the following maintenance and care work should be performed:

A notice: After successful acceptance, responsibility is transferred to the operator. The operator is obligated to maintain the system and ensure its functionality.

All adjustment work on accessories must be carried out in accordance with the respective manufacturer's specifications or assembly instructions.

- **Castles**
  Check the smooth operation of the latch and deadbolt and re-grease. Greasing the latch bevel can improve the latch's retraction and protect the strike plate.

- **Pusher**
  The position of the push button should be checked regularly and adjusted if necessary.

- **Electric door openers and hinges**
  Electric door openers are essentially maintenance-free. However, a little grease on the locking surface increases smooth operation. Lightly grease hinges without maintenance-free polyamide plain bearings.

- **Frame seals / floor seals**
  If damaged, the seals must be replaced. This can easily be done by replacing them. Only seals supplied by PRÜM may be used. Floor seals must seal the floor joint across the entire width of the door. If necessary, the floor seal must be readjusted or replaced.

- **door closer**
  Maintenance of the door locking devices according to the manufacturer's specifications. e.g., checking that the door closer is securely seated. e.g., correctly adjusting the closing speed and latching action.

- **Further information**
  The holes for the handle set must be drilled on both sides of the door leaf. Drilling through the lock is not permitted to prevent damage and malfunctions to the lock. The rosettes and long plates of the handle set must be screwed on carefully by hand! Screwing them on too tightly can lead to cracks in the door leaf surface! If assembly foam comes into contact with the door elements, they will be attacked and cannot be repaired! When taping off door elements (e.g. for protection during painting work), ensure that painter's tape is used that does not dissolve the surface! The painter's tape must be removed immediately after the work is completed. Furthermore, when installing the door frame, care should be taken to ensure that it can be replaced later without damaging any existing fine plaster!

Care:
All surfaces (CPL, decor, lacquer, Formica) are easy to maintain and can be easily kept clean by wiping with a clean cloth. Avoid the use of abrasives and aggressive cleaning agents. For heavily soiled surfaces, a special alcohol-based cleaner is available that is suitable for the surface and rubber seal. Caution! Microfiber cloths and cleaning fibers must not be used for wiping!

General building inspectorate approval / general type approval
Number: Z-6.20-2095


Deutsches Institut für Bautechnik DIBt

Eine vom Bund und den Ländern gemeinsam getragene Anstalt des öffentlichen Rechts

Zulassungs- und Genehmigungsstelle für Bauprodukte und Bauarten

Allgemeine bauaufsichtliche Zulassung/ Allgemeine Bauartgenehmigung

Datum: 13.06.2024 Geschäftszeichen: III 75-1.6.20-66/23

Nummer: Z-6.20-2095

Geltungsdauer vom: 13. Juni 2024 bis: 3. November 2027

Antragsteller: PRÜM - Türenwerk GmbH Andreas-Stihl-Straße 54595 Weinsheim/Eifel

Gegenstand dieses Bescheides: T 30-1-FSA "PRÜM Typ: FS-30-1" bzw. T 30-1-RS-FSA "PRÜM Typ: FS-30-1-RD" bzw. T 30-2-FSA "PRÜM Typ: FS-30-2" bzw. T 30-2-RS-FSA "PRÜM Typ: FS-30-2-RD"

Der oben genannte Regelungsgegenstand wird hiermit allgemein bauaufsichtlich zugelassen/ genehmigt.
Dieser Bescheid umfasst zwölf Seiten und sechs Anlagen.
Diese allgemeine bauaufsichtliche Zulassung/allgemeine Bauartgenehmigung ersetzt die allgemeine bauaufsichtliche Zulassung/allgemeine Bauartgenehmigung Nr. Z-6.20-2095 vom 29. September 2022, geändert und ergänzt durch Bescheid vom 9. August 2023.

DIBt

DIBt | Kolonnenstraße 30 B | D-10829 Berlin | Tel.: +49 30 78730-0 | Fax: +49 30 78730-320 | E-Mail: dibt@dibt.de | www.dibt.de

General building inspectorate approval General type approval Number: Z-6.20-2049


Deutsches Institut für Bautechnik DIBt

Eine vom Bund und den Ländern gemeinsam getragene Anstalt des öffentlichen Rechts

Zulassungs- und Genehmigungsstelle für Bauprodukte und Bauarten

Allgemeine bauaufsichtliche Zulassung/ Allgemeine Bauartgenehmigung

Datum: 20.06.2024 Geschäftszeichen: III 72-1.6.20-204/23

Nummer: Z-6.20-2049

Geltungsdauer vom: 20. Juni 2024 bis: 3. November 2027

Antragsteller: joro türen gmbh joro Türen gmbh Industrie West 77871 Renchen

Gegenstand dieses Bescheides: T 30-1-FSA "joro T30-1" bzw. T 30-1-RS-FSA "joro T30RS-1" bzw. T 30-2-FSA "joro T30-2" bzw. T 30-2-RS-FSA "joro T30RS-2"

Der oben genannte Regelungsgegenstand wird hiermit allgemein bauaufsichtlich zugelassen/ genehmigt.
Dieser Bescheid umfasst zehn Seiten und fünf Anlagen.
Diese allgemeine bauaufsichtliche Zulassung/allgemeine Bauartgenehmigung ersetzt die allgemeine bauaufsichtliche Zulassung/allgemeine Bauartgenehmigung Nr. Z-6.20-2049 vom 29. Oktober 2022, geändert und ergänzt durch Bescheid vom 27. Oktober 2023.

DIBt

The complete building approval and the certificate of conformity can also be downloaded from the following link:

https://tuerenhandbuch.tuer.de/tuerenhandbuch/allgemeineinformationen/pruefzeugnisse/feuerschutz-fs/zulassungen-deutschland

General building authority approval byQR code:

Z-6.20-2095

Z-6.20-2049

Certificate of conformity byQR code:

Z-6.20-2095

Z-6.20-2049

www.tuerenhandbuch.tuer.de

Door manual - General information - Installation instructions - Functional doors - Fire protection

Certificate of conformity / assembly certificate

With this form, the installer confirms the correct
Installation of PRÜM fire doors:
Type: "FS-30-1 / FS-30-1-RD / FS-30-2 / FS-30-2-RD / T30RS-1"

- Name and address of the company that**Fire protection closure**/ the**Fire protection closures**(subject of approval):

Installation company: _____

Address: _____

_____

_____

- Construction projects:

Object: _____

Address: _____

_____

_____

- Period of installation of the fire barrier(s):

Date: _____

It is hereby confirmed that the**Subject of admission**/the**Subjects of approval**in all details professionally and in compliance with all provisions of the general building authority approval**No.: Z-6.20-2095**(FS-30-1 / FS-30-1-RD / FS-30-2 / FS-30-2-RD - 06/13/2024)**/Z-6.20-2049** (T30RS-1 - June 20, 2024) of the German Institute for Building Technology and the installation instructions provided by the applicant for this approval. An approved door handle and door closer were professionally installed and adjusted.

Furthermore, it is confirmed that the fire doors with the additional function**"Burglary protection according to DIN EN 1627"**were installed in accordance with the instructions in these installation instructions.

_____ _____

(Place, date) (Company/Signature)

The certificate must be handed over to the building owner for forwarding to the responsible building supervisory authority if necessary.

Possible versions:

- rebated or butt-fitting
- smooth or with light cutout
- Skylight or top panel
- Windbreak WF1-WF4
- Wooden frame
- Frame
- Block frame
- Steel frame

PRÜM

Türen die zu mir passen

PRÜM-Türenwerk GmbH • Andreas-Stihl-Straße 5 • 54595 Weinsheim / Eifel