

WINDOW AND DOOR INSTALLATION GUIDELINES

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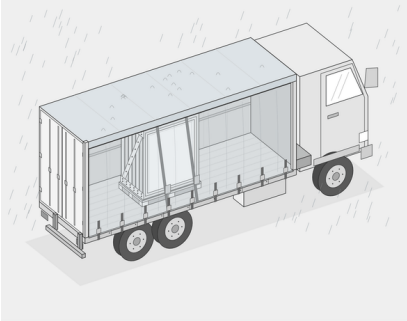
CHECKLIST 22

GENERAL INFORMATION

These guidelines provide general technical recommendations. The suitability of the proposed solution must be assessed for each specific project, taking into account the project, the site conditions and the applicable regulations.
Today, ever higher requirements are placed on buildings to ensure a safe, healthy, energy-efficient and sustainable living environment. We offer high-quality products that meet these requirements. However, for these requirements to be fully met, and for the product to be durable and serve its intended purpose, correct installation is essential.
This manual describes general installation methods. The installer is responsible for correct and safe installation.
If you have any doubts about the installation process, please contact us.

TRANSPORTATION

Finished products are secured and transported on pallets in an upright position.
During transport, the products must be protected from moisture, rain and dirt.
Screws of a suitable size are used to fix the products to the pallet; therefore, minor cracks of up to 1.5 mm may appear in the side parts of the product, which will be covered during installation. The corners of the products on the outside of the pallet are covered with cardboard. All products on the pallet are covered with packaging film, which is held in place by packing straps.

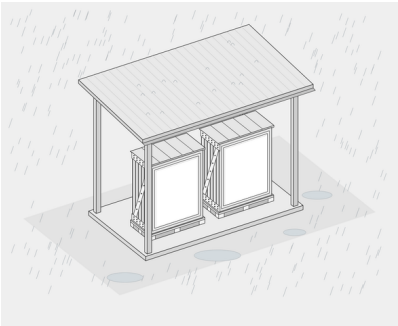


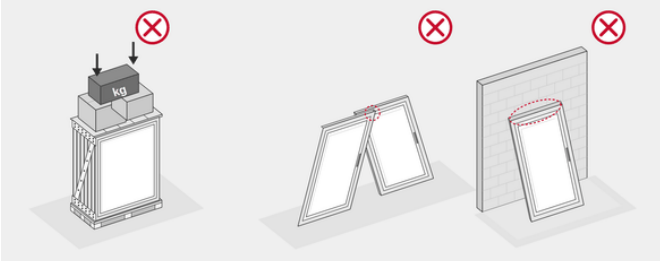
ACCEPTANCE

On receipt of the goods, make sure that the delivered products match the order and have not been damaged during transport. If any damage is found, AS “Arbo Windows” and the carrier must be informed immediately. The damage must be photographed and the number of damaged products recorded in the consignment note (CMR). If AS “Arbo Windows” has not received such information, visible damage to the products found after installation will not be considered a warranty claim.

STORAGE

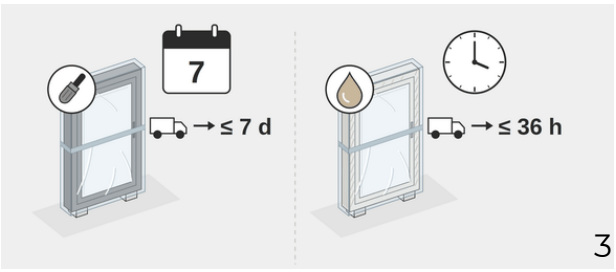
If installation is not carried out immediately after delivery, the products must be stored indoors or under a shelter where they are not exposed to direct weather and precipitation. Products are best stored upright on the pallets provided by the manufacturer.
Make sure that moisture does not remain on the product surfaces for long periods during storage, as wooden products may then absorb excessive moisture and deform.





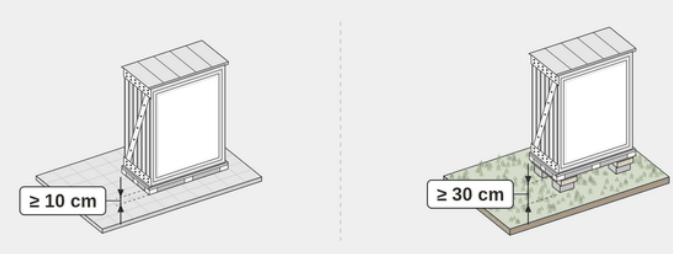
During storage, the products must not be loaded with weight, left leaning against a wall or leaned against each other. Windows stored in this way will deform.

Products with a finish may remain in the manufacturer’s packaging (packaging film) for no longer than 7 days from delivery, while products without a finish (impregnated) may remain in the manufacturer’s packaging for no longer than 36 hours from delivery. When wooden products are stored in packaging film for a long time, condensation (increased humidity) forms inside, causing the windows to deform and finish defects to appear.



STORAGE

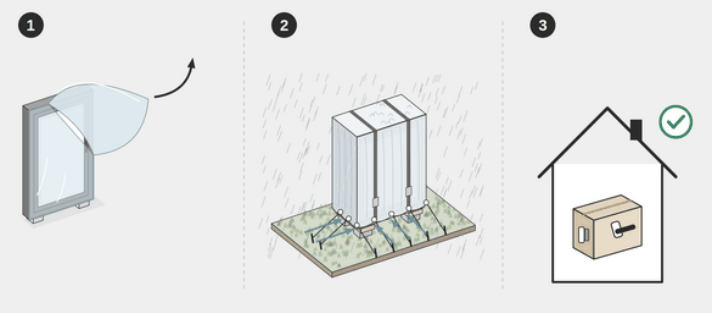
The pallet with the products must be placed on a firm, level base at least 10 cm above the ground, or at least 30 cm above the ground if the pallet with windows is placed on grass or soil.



Outdoor storage under a cover is permitted only in exceptional cases and for a short time.
If a cover is used:

- The manufacturer's packaging film must be removed;
- The cover must properly protect the top and sides of the products and be secured so that rainwater cannot get in;
- The space under the cover must be well ventilated.

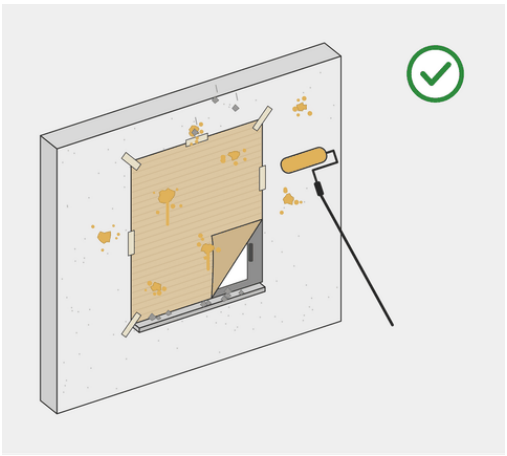
Separately delivered hardware and accessories must be stored indoors.

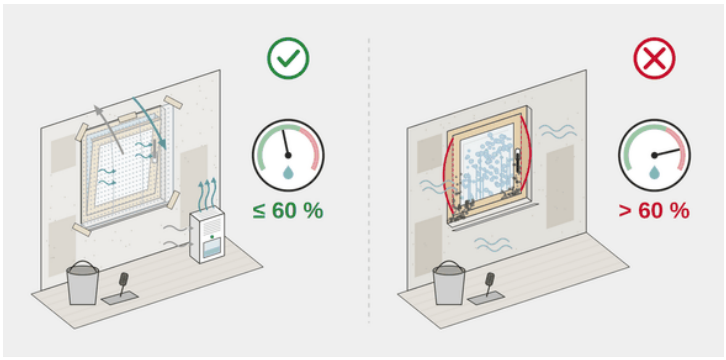


PROTECTION

Most damage to windows/doors occurs during construction work. We recommend not installing windows/doors while facade or interior construction work is in progress. If this cannot be avoided, great attention must be paid to protecting the windows/doors both from the facade side and from the inside.

Cover the windows/doors with a non-airtight material, cardboard or similar to prevent paint and other construction debris from getting onto the wood, glass, locks, hinges or other parts of the products.
When carrying out interior work, continue to protect the windows/doors from debris, dust, glue and paint getting into the mechanisms and onto the surfaces. During finishing work and cosmetic repairs, the windows/doors must be protected by covering them with film or paper. If adhesive tape is used to fix the protective materials, we recommend the manufacturer's TESA tapes designed for this purpose, e.g. TESA 4843, so that the product finish is not damaged when the tape is removed.

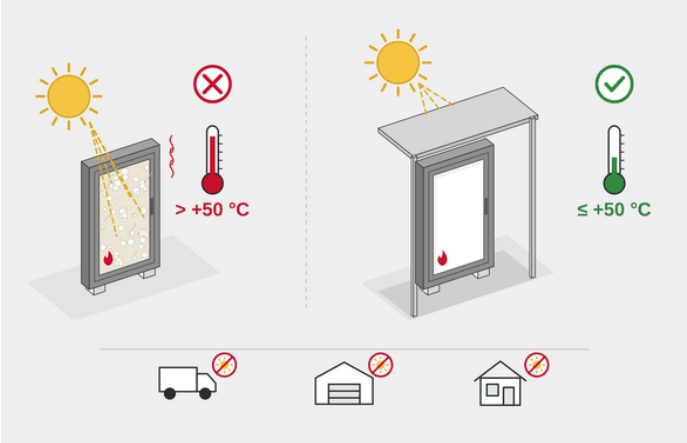




During finishing work (concreting, plastering) and for a couple of months afterwards, the rooms must be ventilated. For better and faster moisture removal, we recommend using dehumidifiers. If the relative humidity exceeds 60%, condensation will form on the wooden parts and the glass. As a result of increased moisture, mould may appear on the wooden parts and they may deform and swell, which damages the tightness of the sash and impairs the opening/closing of the window/door.

PROTECTION OF GLASS UNITS

Products with fire-resistant glass (e.g. Pyrobel 16) must not be exposed to direct sunlight and must not heat up above +50 °C. Otherwise, a gel or powder reaction to UV radiation or heat may occur in the fire-resistant glass. These conditions must also be observed during transport, storage and throughout the service life of the product.



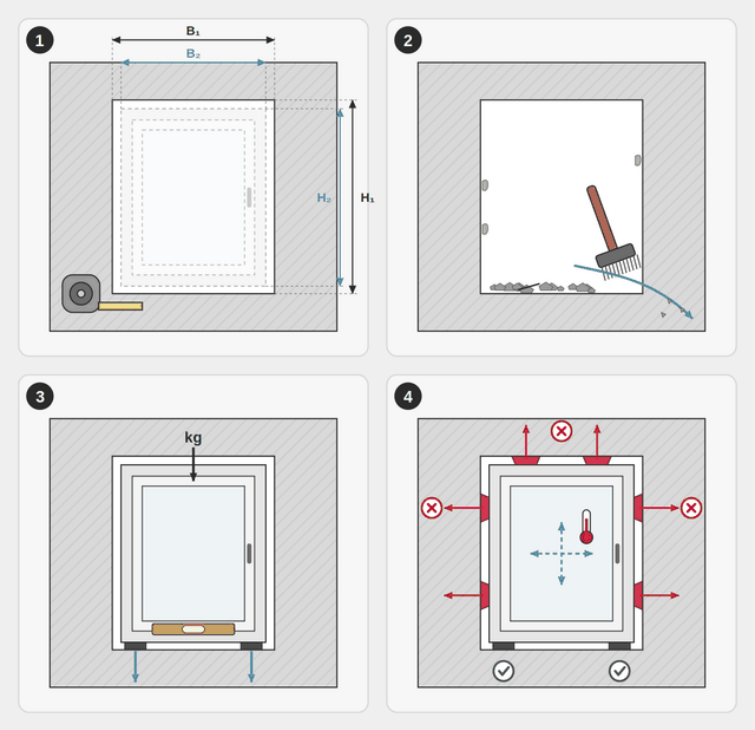
INSTALLATION

We recommend that windows and doors are installed by a specialist with the knowledge or appropriate certification for installing wooden products. Incorrectly or inaccurately installed products will cause complications and, during use, may lead to sash deformation and other irreversible damage.
Windows and doors must not be used as structural or load-bearing elements.

Fixings and fixing methods must be selected to suit the specific situation. The choice depends on the type of building structure, the site conditions and the planned connection of the window to the wall.

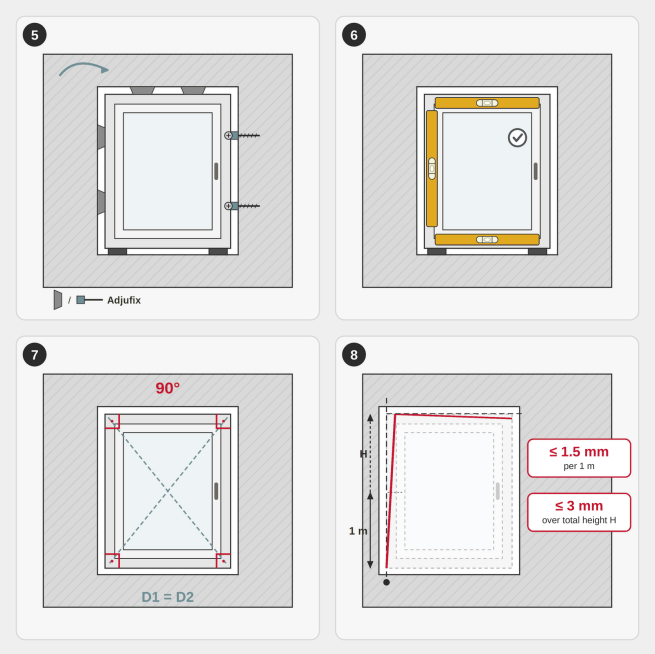
Before installation, assess the size and weight of the window or door, the installation location and the condition of the opening, and select suitable fixings. The product must be installed firmly and securely so that it retains its functional properties during use.

1. Compare the dimensions of the opening with the product.
2. Prepare the opening for installation – remove debris and foreign objects that could interfere with levelling or prevent the joint from being sealed.
3. Place the load-bearing (support) blocks, which secure the window in the opening and transfer its weight (load) to the building structure (see section Support block arrangement, p. 7).
4. PLEASE NOTE! The arrangement of the blocks depends on the window design and must not prevent the thermal expansion of the window frame. The load-bearing (support) blocks must remain in the installation joint to carry the loads permanently. After the product has been fixed, the installation wedges used to fix the window at the sides and top must be removed before the installation joint is closed.



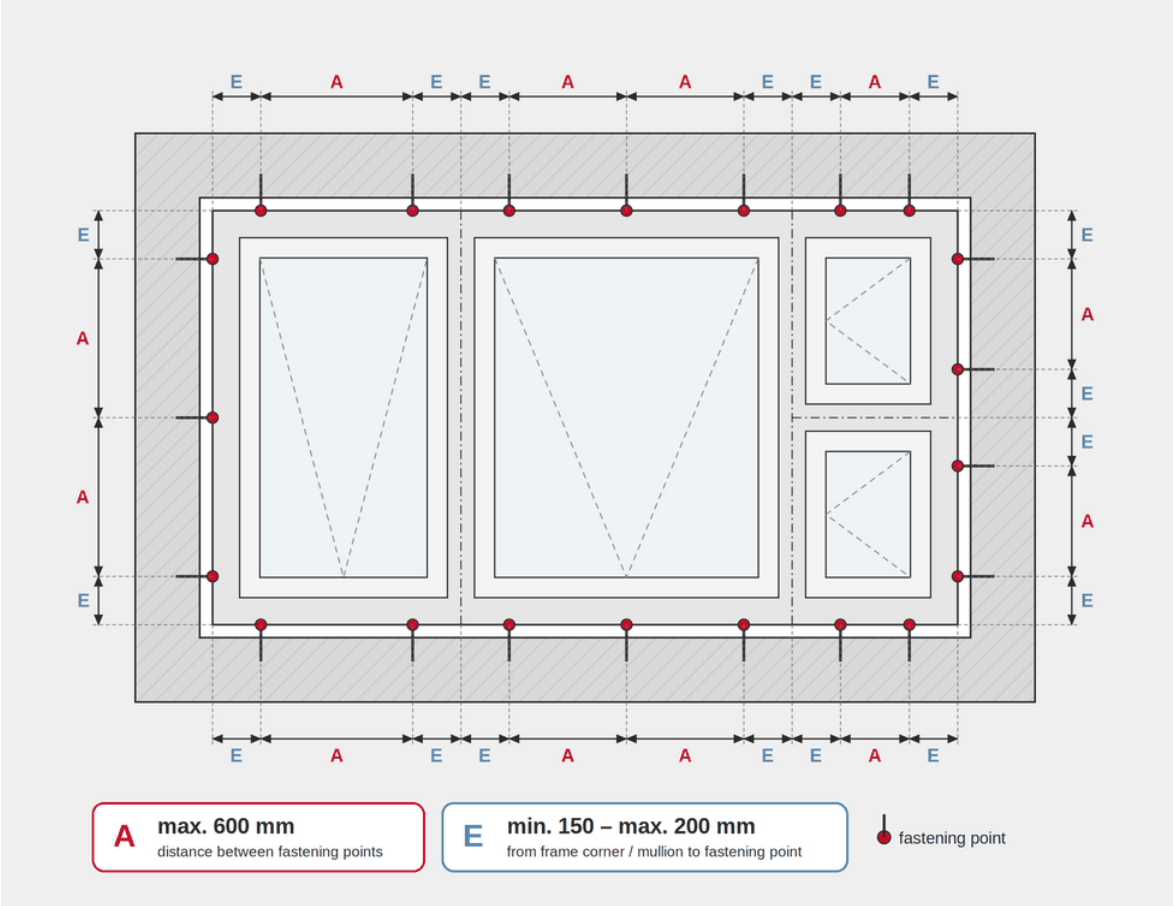
INSTALLATION

5. Place the product in the opening. ❺ ❻ – Using a spirit level and installation wedges or Adjufix, adjust the product vertically and horizontally. ❼ – Check that the corners are at 90°. ❽ – Vertical and horizontal deviations must not exceed 1.5 mm per 1 m, with a maximum of 3 mm over the total height or width of the product.
6. Fix the product in the opening. The product can be fixed using:
   - installation brackets;
   - the Adjufix installation system;
   - installation screws through the frame.
7. If installation brackets are used, they must be oriented at an angle of 90° ± 15° to the product.
8. Fill the installation joints with installation foam, mineral wool, expanding sealing tapes and other materials that meet the required performance requirements. Internal connections must be airtight, while external ones must be protected from the weather.



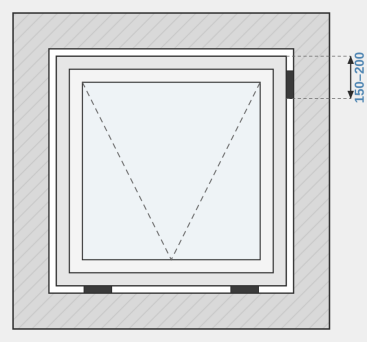
INSTALLATION – FIXING POINTS

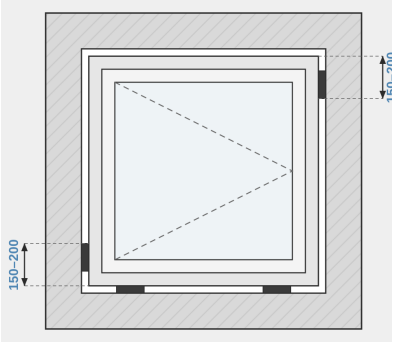
The fixing points transfer the load from the window to the building structure. Their number may be increased according to site conditions, but not reduced.

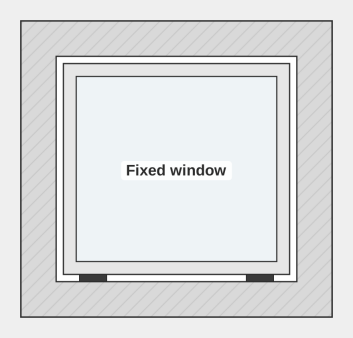


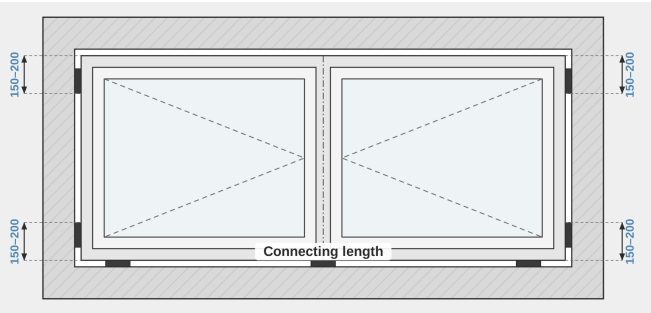
INSTALLATION – SUPPORT BLOCK ARRANGEMENT

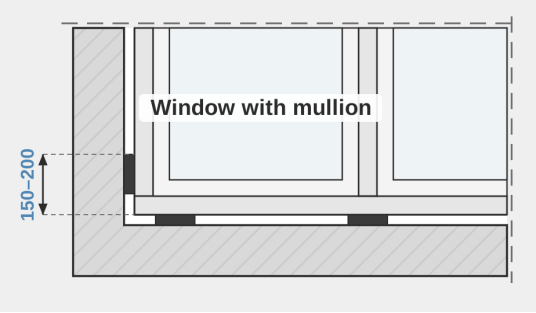
Support blocks are used to position the window or its assemblies in the opening and to transfer loads evenly to the building structure. The arrangement of the blocks must not restrict the thermal expansion of the product. The block must remain permanently in the installation joint, protected from moisture; it must not become a moisture trap and must not interfere with subsequent finishing work.
The diagrams show a typical arrangement of support blocks for different types of products. The dimensions and distances between blocks shown in the original diagrams must be observed, insofar as they apply to the specific product.

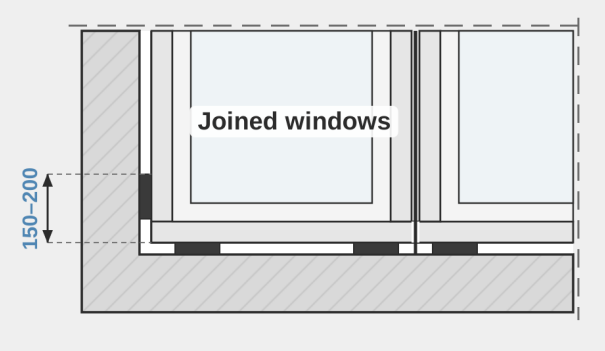


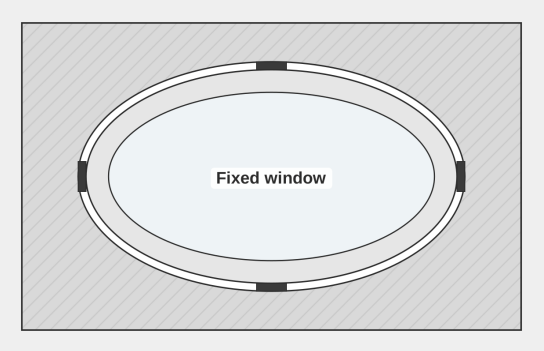


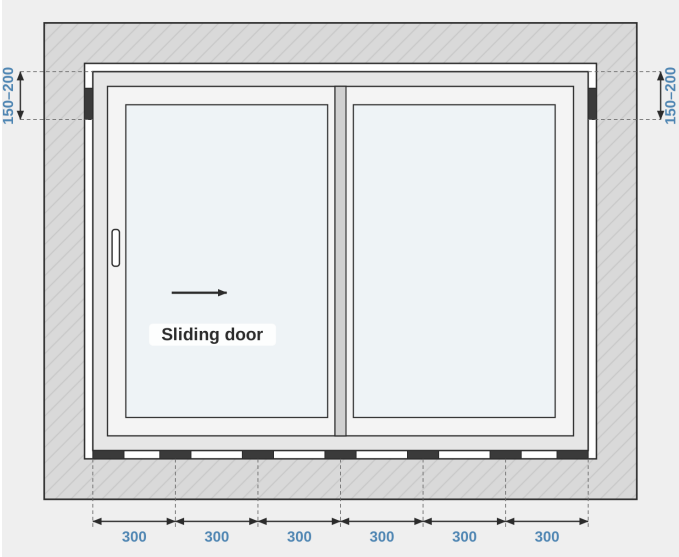


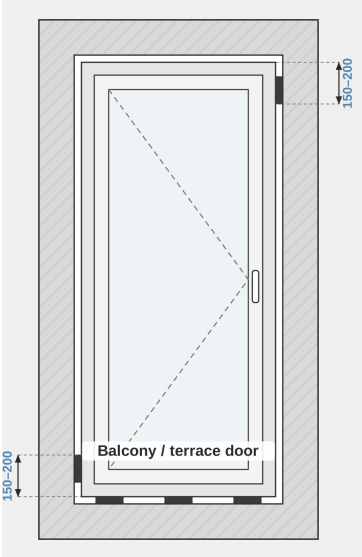


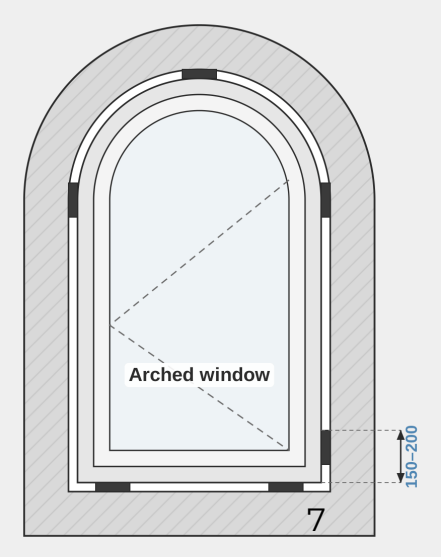












AFTER INSTALLING WINDOWS AND DOORS

- The hardware must be readjusted so that the product works properly and is not damaged!
- The reveals must be finished no later than 4 weeks after the windows/doors are installed in the opening.
- Keep in mind that a deviation of millimetres at one end can become centimetres at the other. Be sure to measure, level and align the frame and the threshold. The product may need to be readjusted after it has been in place for some time.

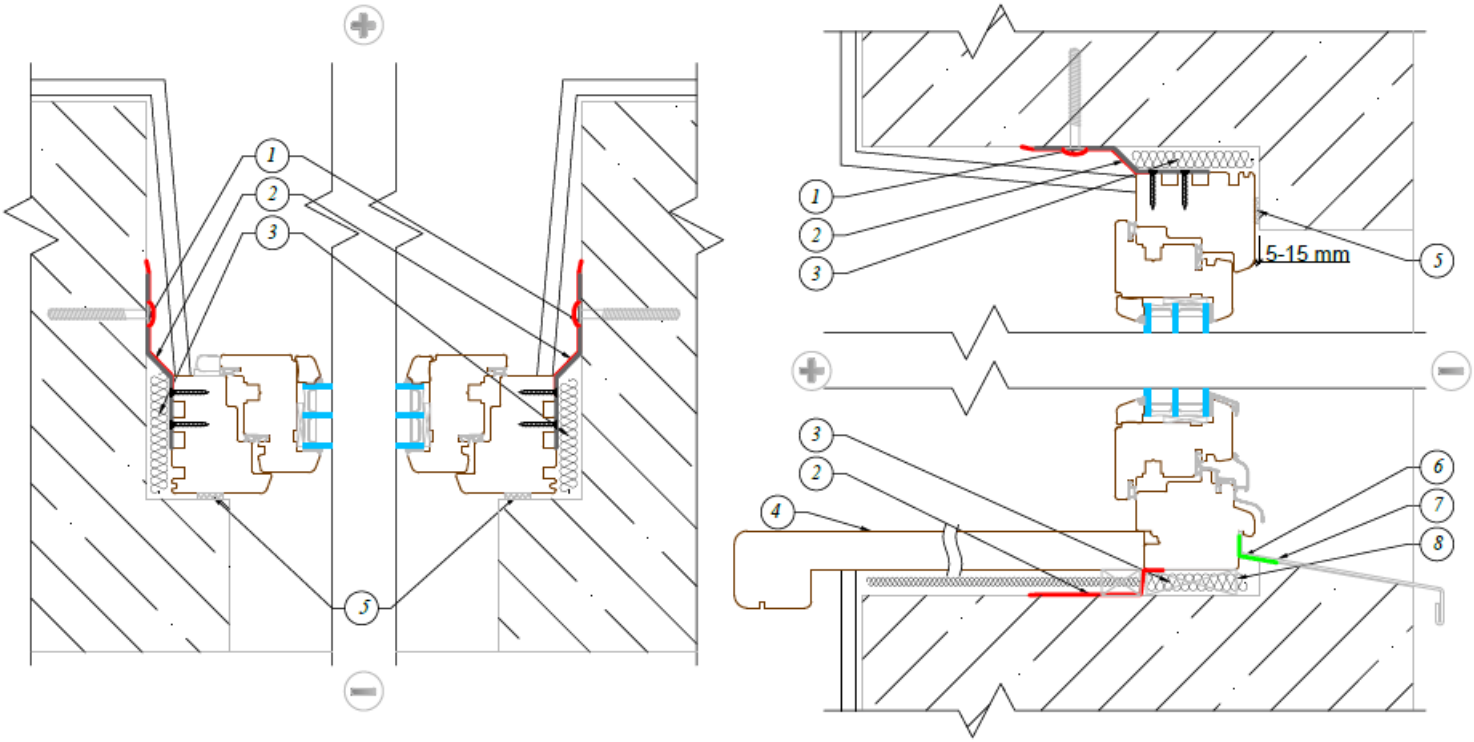
ADDITIONAL REQUIREMENTS

- When installing wooden windows and doors, special attention must be paid to filling the installation joints. When applying foam, make sure that no unfilled “voids” are left.
- Installation foam must be selected according to the application temperature and purpose. Standard installation foam does not expand sufficiently in cold conditions, so a product suitable for low temperatures must be used in such conditions.
- When using insulating foam, the amount must be appropriate: too much foam can bend the frame.
- When installing wood-aluminium windows or doors, an elastic and airtight connection must be provided between the external aluminium cladding and the building’s finishing layer. The elastic connection is needed so that thermal expansion/contraction of the materials does not cause cracks and the connections remain airtight.
- If the product is soiled with finishing materials, it must be cleaned immediately (before the material dries) to avoid damaging the finish of the wooden window.
- Aids used for finishing the reveals should not be fixed with screws, nails or in any other way that damages the window’s protective coating.
- The warranty terms require a canopy above entrance doors or panel-type doors to protect them from direct exposure to the external environment.
- Doors with drainage holes in the threshold for removing excess moisture (e.g. folding doors) must be installed without covering these drainage channels.
- During use, the manufacturer’s care recommendations must be followed.
- The AS “Arbo Windows” WINDOW AND DOOR operating instructions & warranty terms are available on the website www.arbowindows.lv, attached to the contract or fixed to the pallet.
- For fire-resistant windows, the instructions and materials provided by AS “Arbo Windows” must be followed precisely. See the information under Installation diagrams, p. 21.

INSTALLATION DIAGRAMS

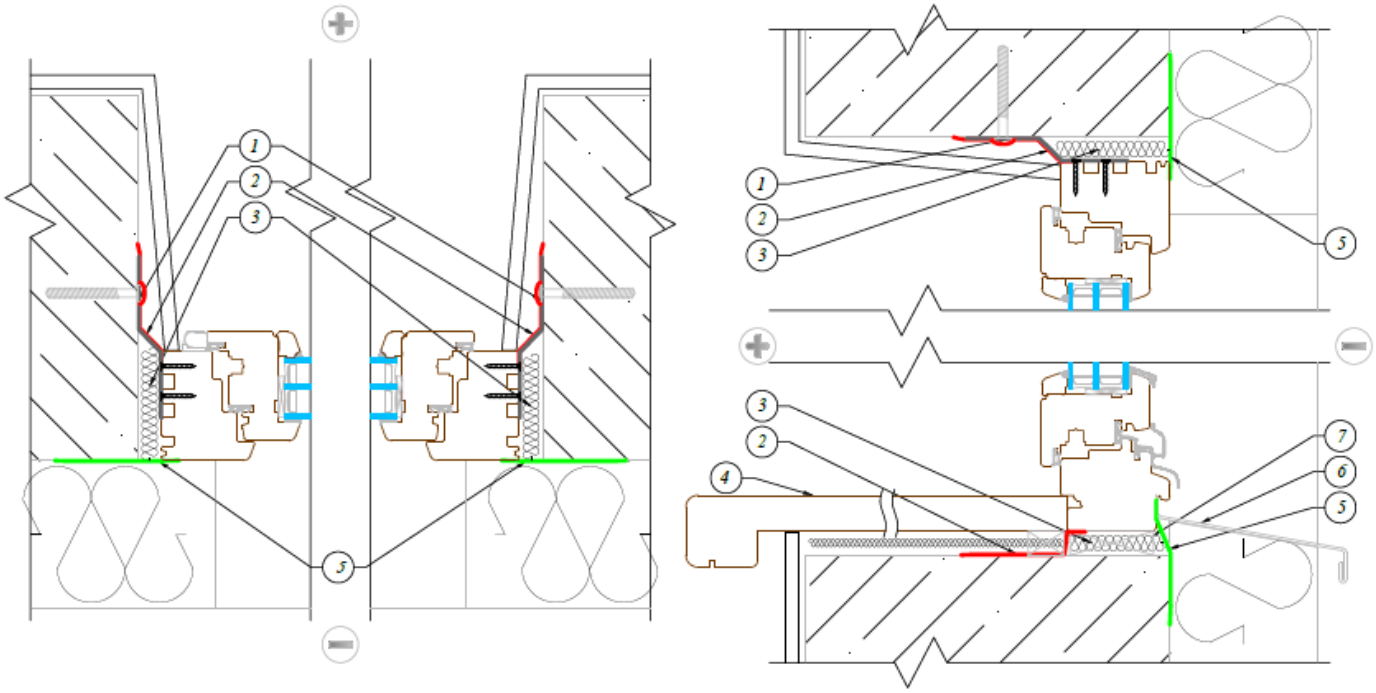
- The diagrams included in these guidelines are intended to illustrate the principle of installing windows and doors. The walls shown in these diagrams are not to be regarded as engineering drawings.
- These guidelines do not include diagrams for all types of products – for specific products and solutions, please consult an AS “Arbo Windows” sales representative.

IV78; 92 wooden windows
Installation in a brick / concrete wall



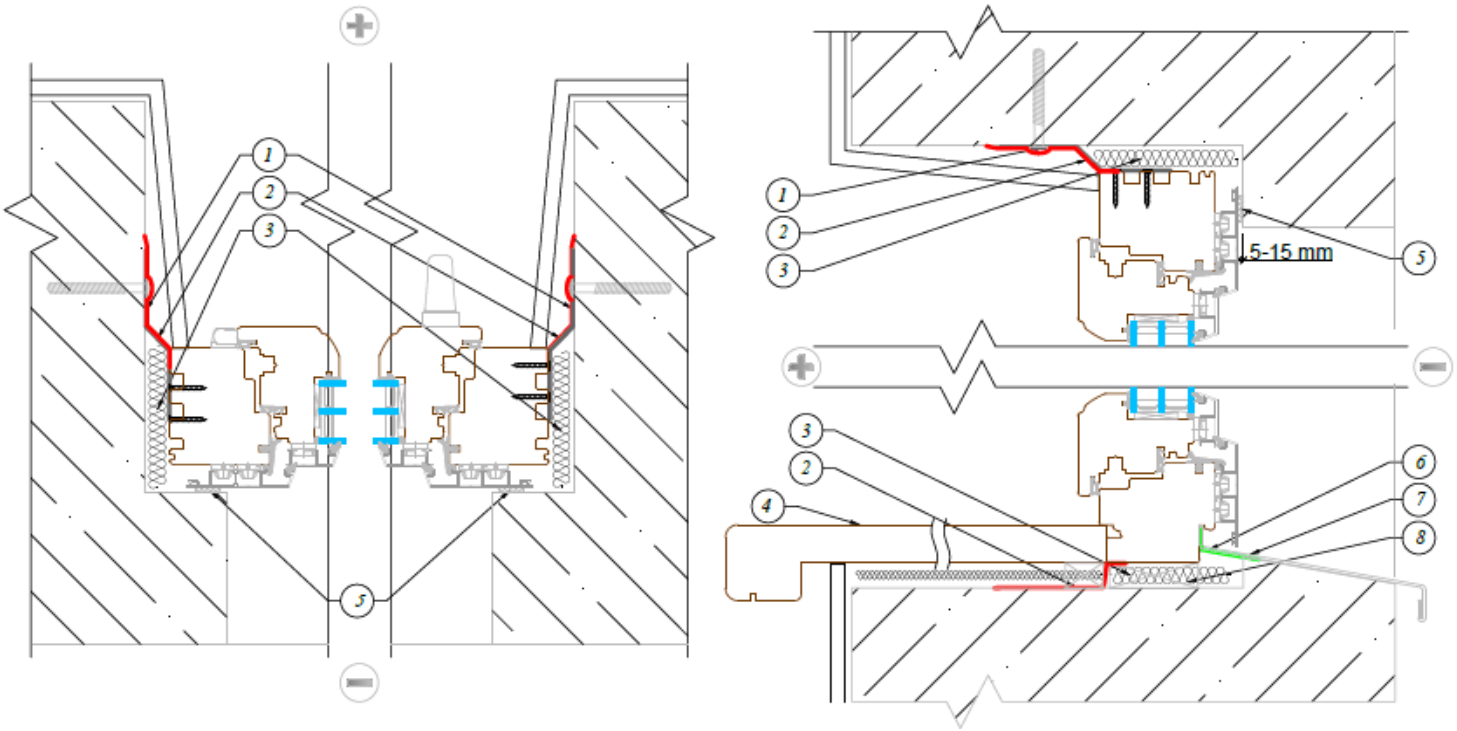
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – internal window sill; 5 – self-expanding tape; 6 – external airtight tape; 7 – external window sill; 8 – levelling block/spacer

IV78; 92 wooden windows
Installation before insulation



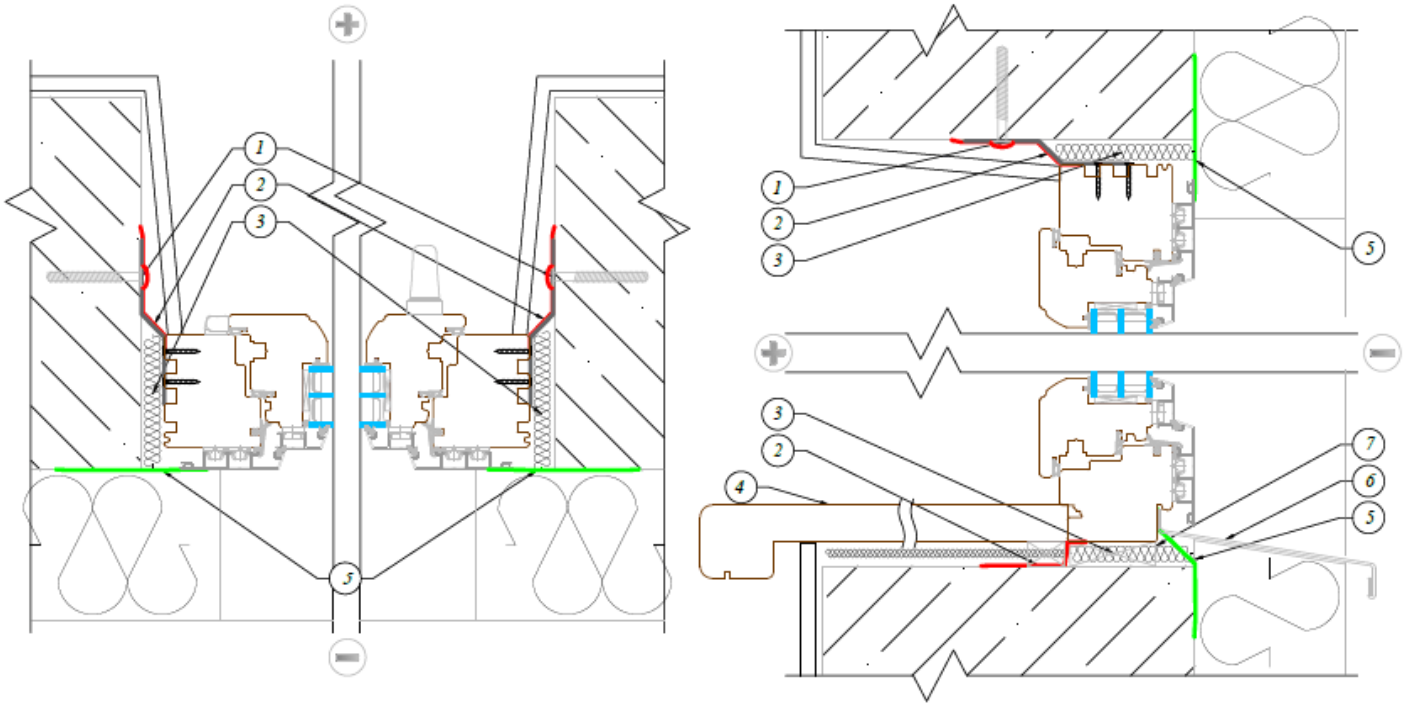
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – internal window sill; 5 – external airtight tape; 6 – external window sill; 7 – levelling block/spacer

IV78; 92 wood-aluminium windows
Installation in a brick/concrete wall



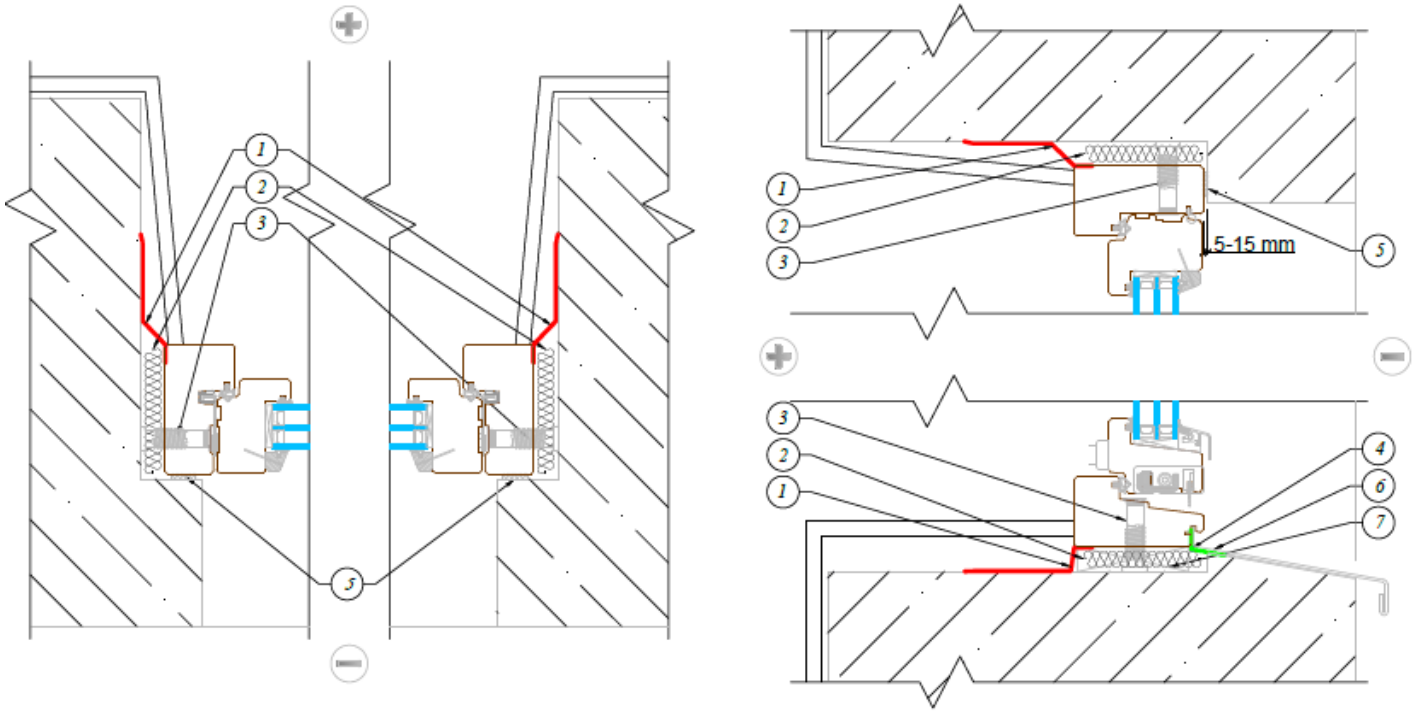
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – internal window sill; 5 – self-expanding tape; 6 – external airtight tape; 7 – external window sill; 8 – levelling block/spacer

IV78; 92 wood-aluminium windows
Installation before insulation



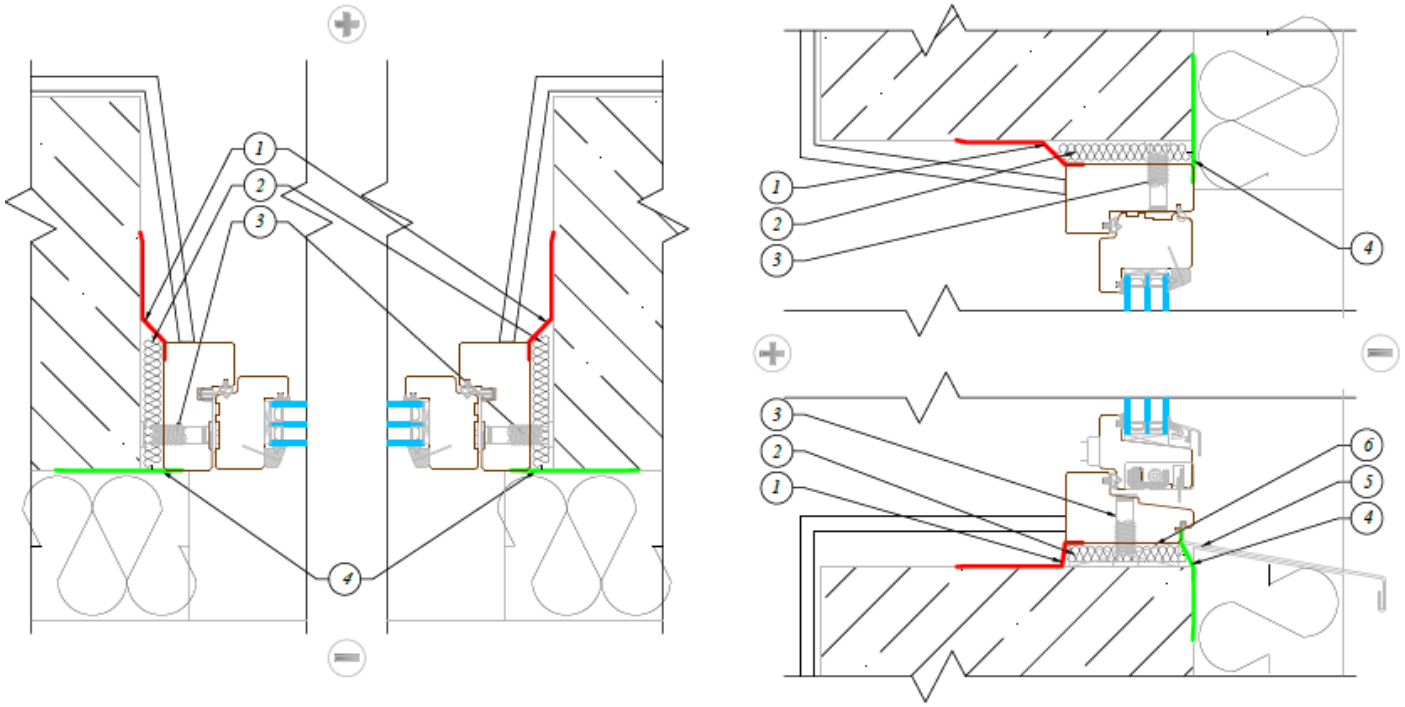
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – internal window sill; 5 – external airtight tape; 6 – external window sill; 7 – levelling block/spacer

76/105 wooden windows
Installation in a brick/concrete wall



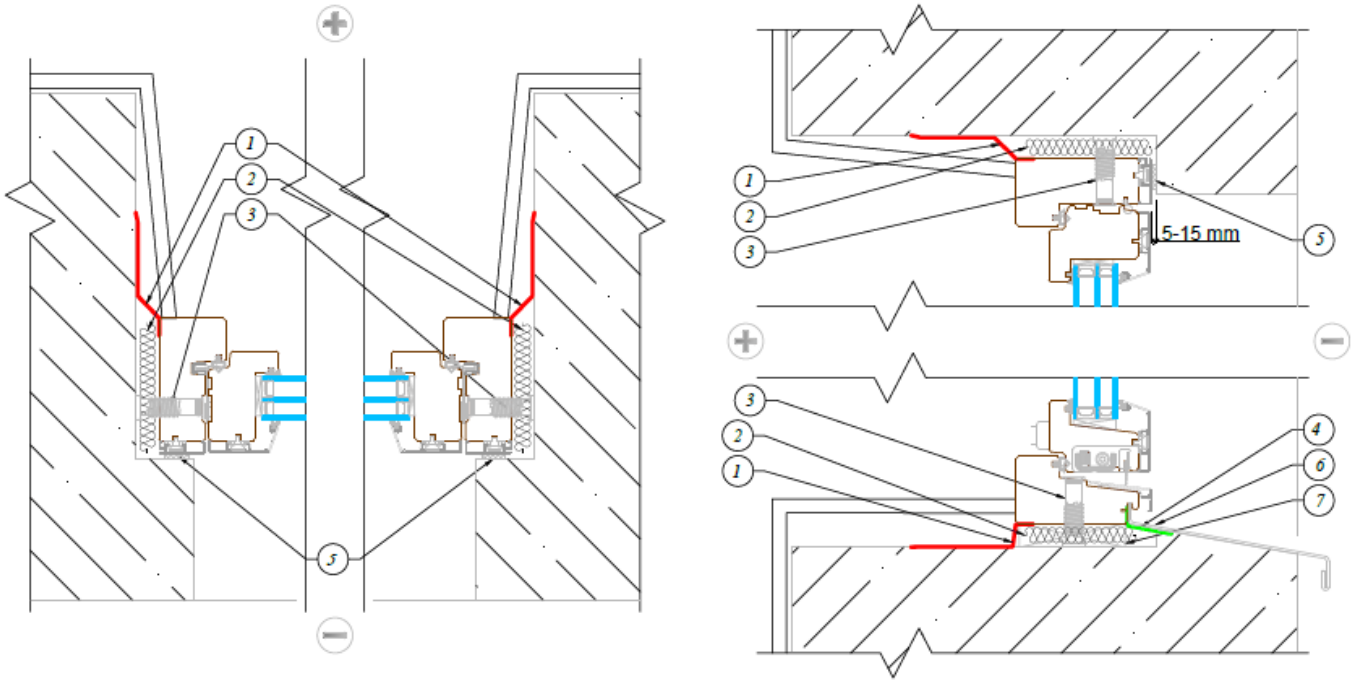
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – fixing sleeve; 4 – external airtight tape; 5 – self-expanding tape; 6 – external window sill; 7 – levelling block/spacer

76/105 wooden windows
Installation within the insulation layer



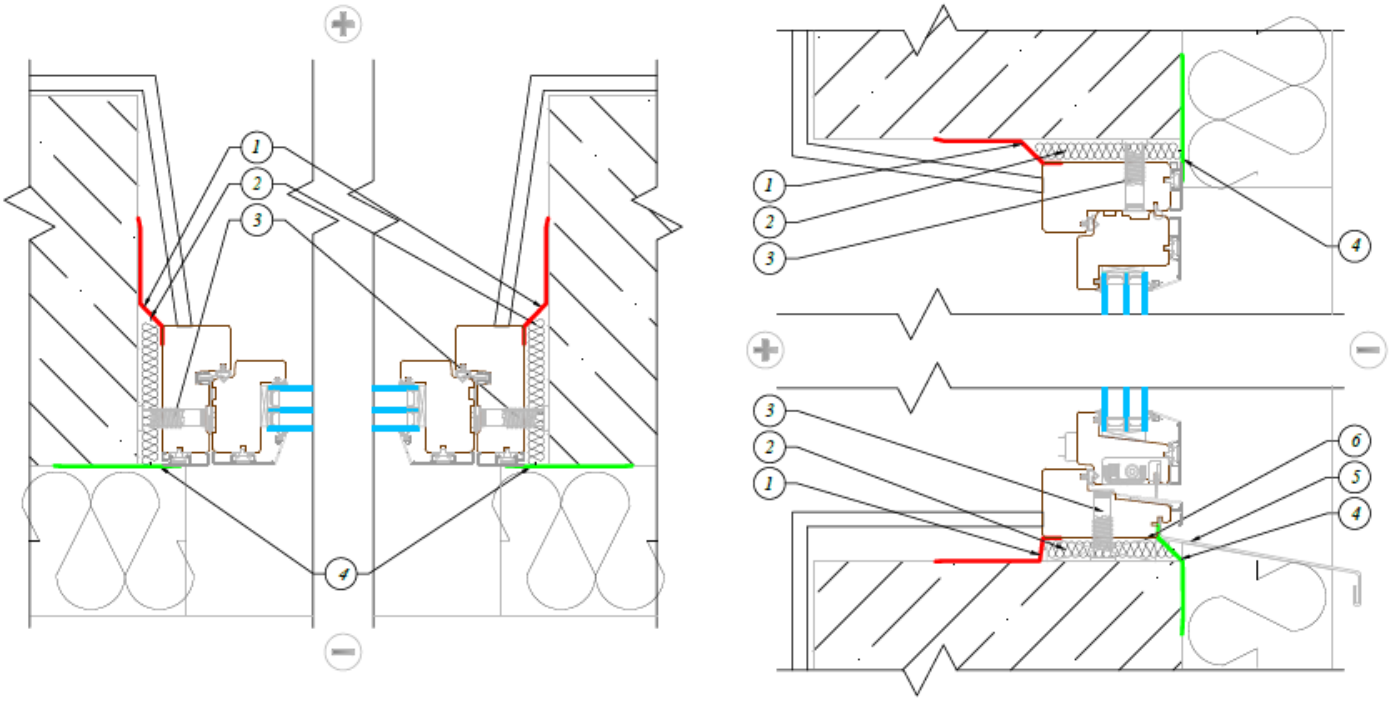
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – fixing sleeve; 4 – external airtight tape; 5 – external window sill; 6 – levelling block/spacer

76/105 wood-aluminium windows
Installation in a brick/concrete wall



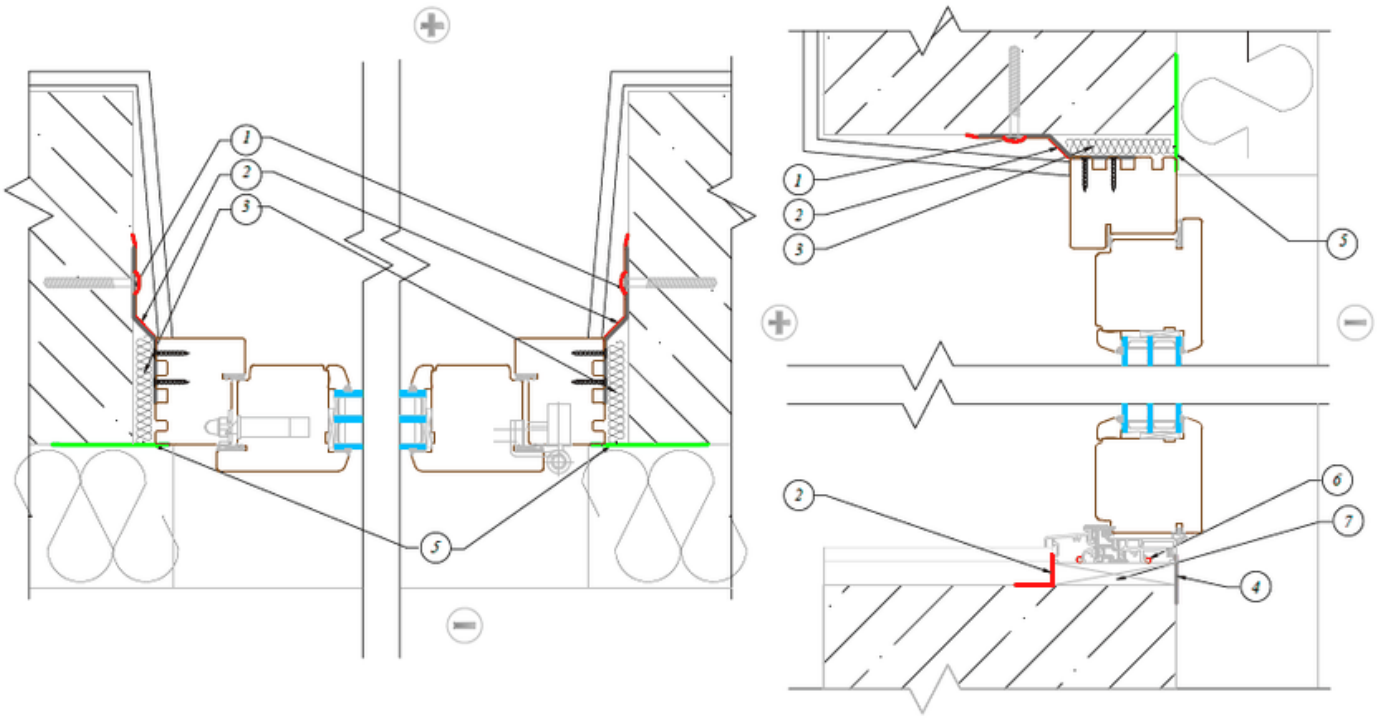
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – fixing sleeve; 4 – external airtight tape; 5 – self-expanding tape; 6 – external window sill; 7 – levelling block/spacer

76/105 wood-aluminium windows
Installation within the insulation layer



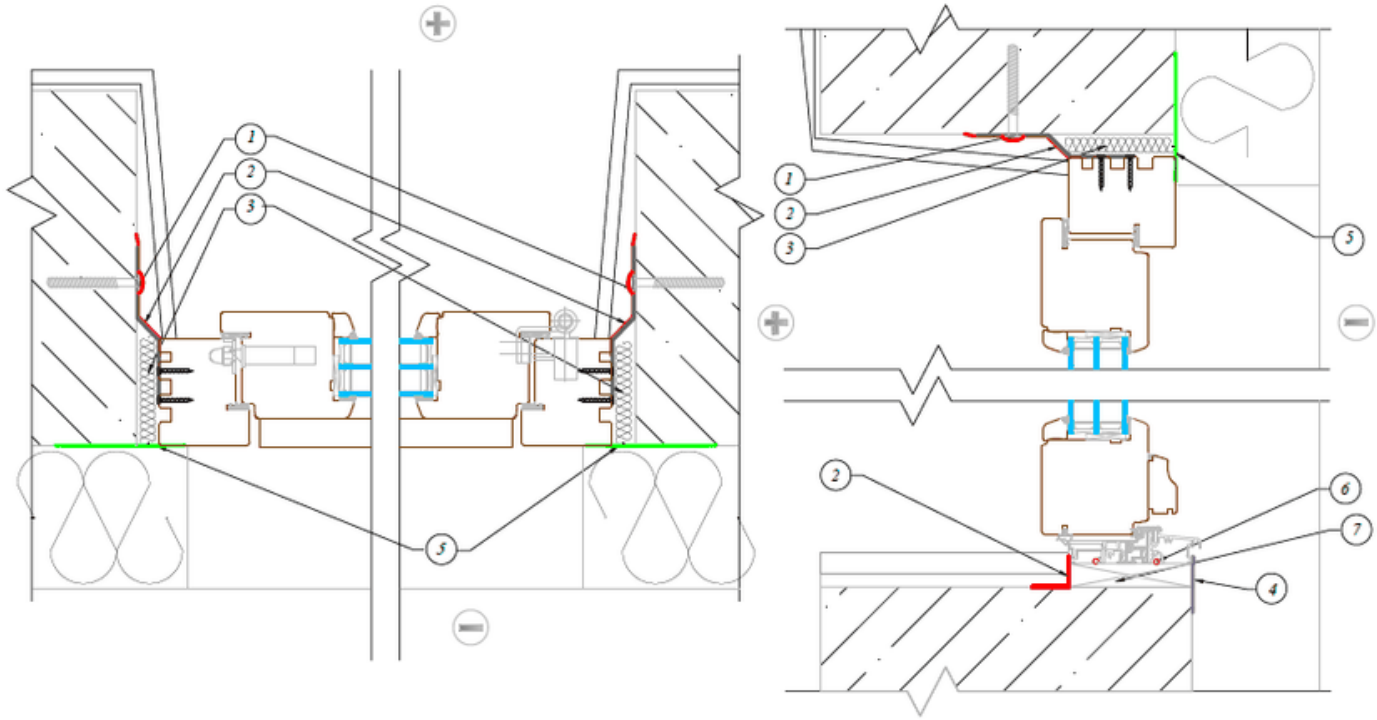
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – fixing sleeve; 4 – external airtight tape; 5 – external window sill; 6 – levelling block/spacer

IV78; 92 wooden entrance doors – outward opening – with aluminium threshold
Installation within the insulation layer



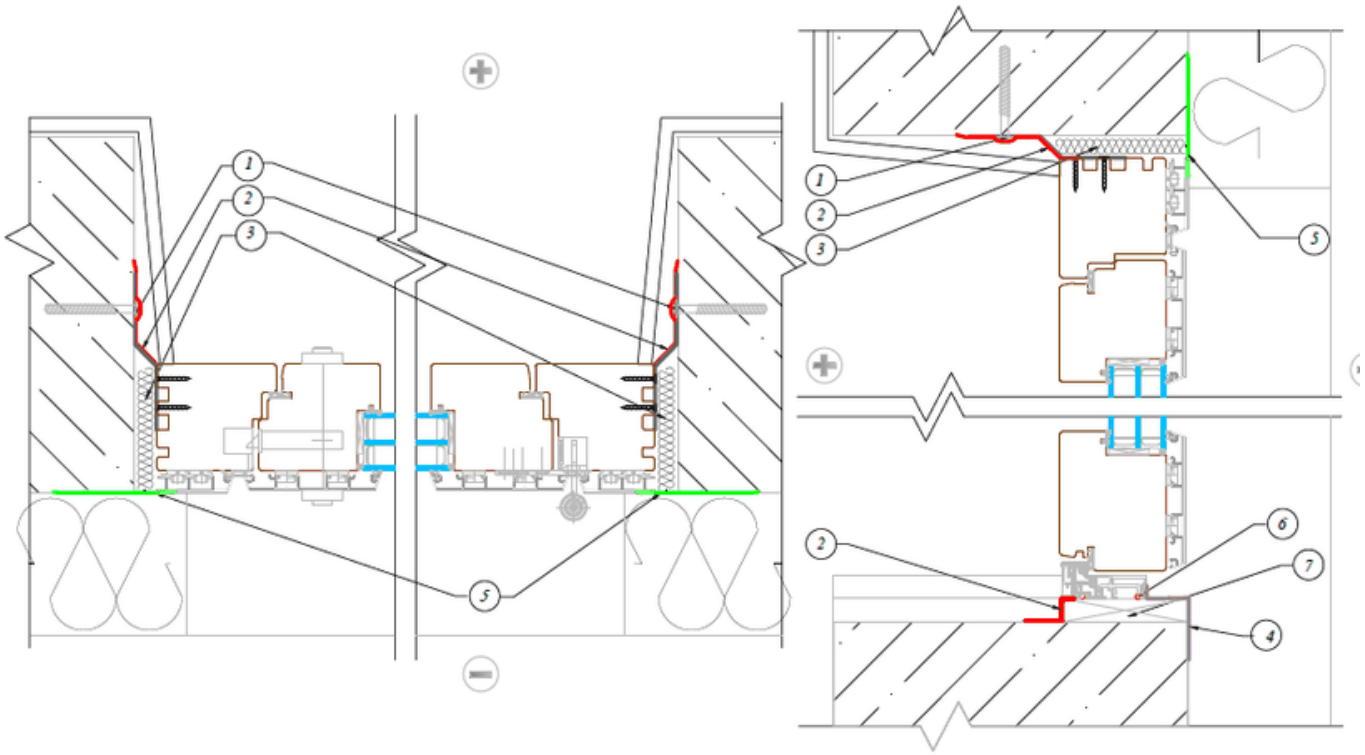
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block/spacer

IV78; 92 wooden entrance doors – inward opening – with aluminium threshold
Installation within the insulation layer



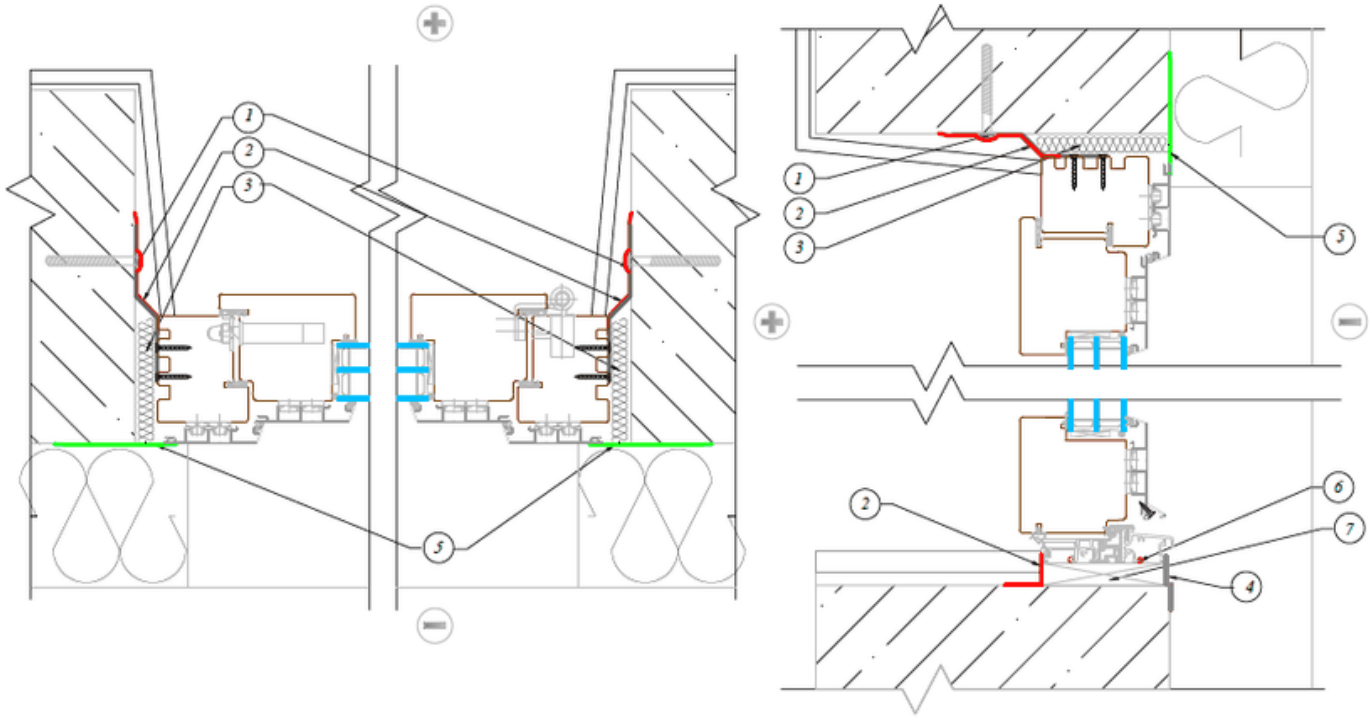
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block/spacer

IV78; 92 wood-aluminium entrance doors – outward opening – with aluminium threshold
Installation within the insulation layer



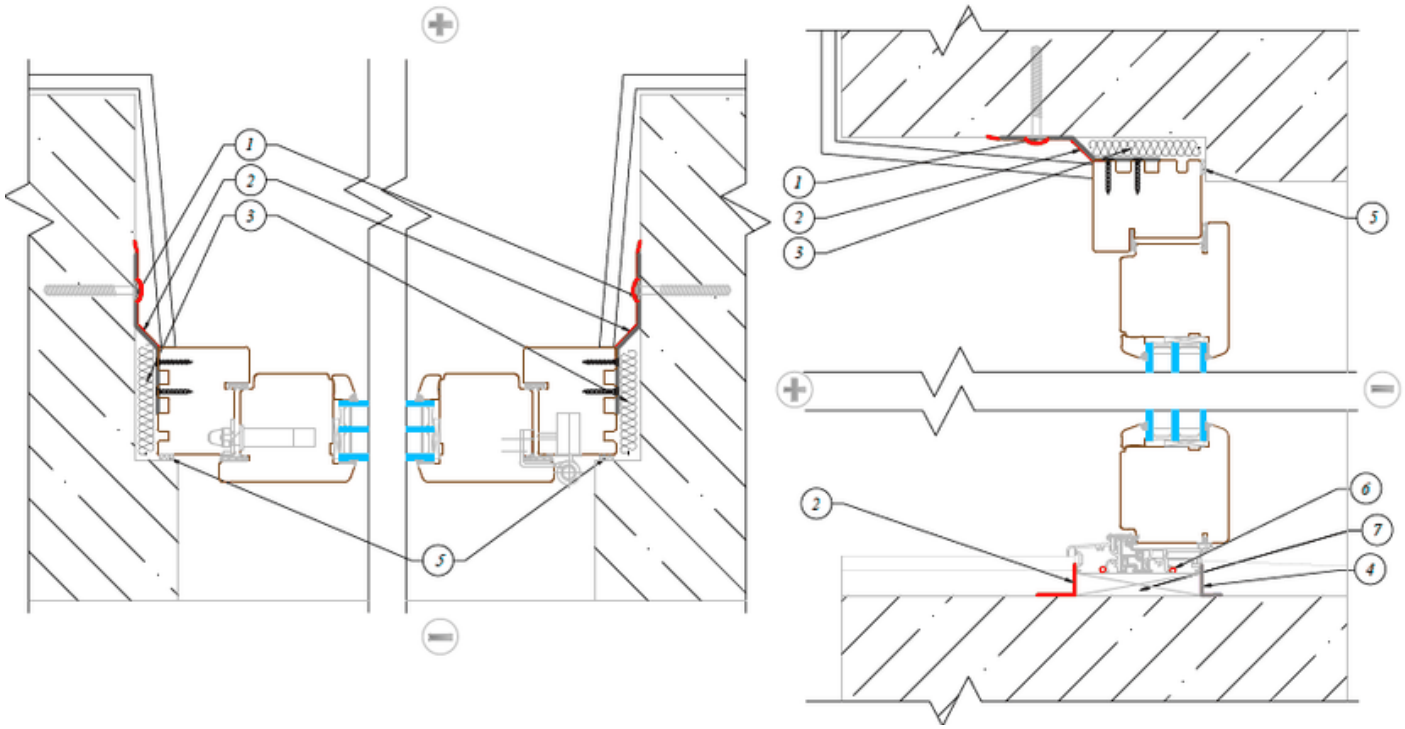
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape for installation under the threshold; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block/spacer

IV78; 92 wood-aluminium entrance doors – inward opening – with aluminium threshold
Installation within the insulation layer



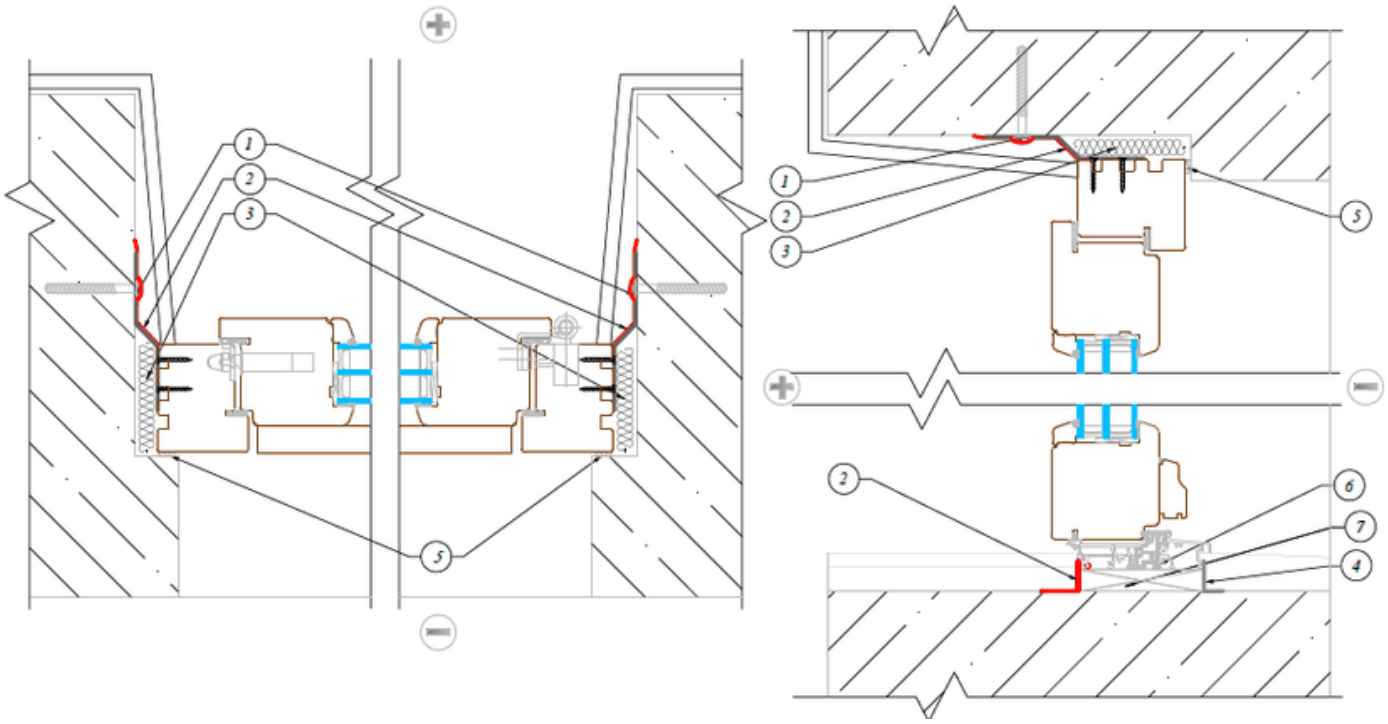
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape for installation under the threshold; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block/spacer

IV78; 92 wooden entrance doors – outward opening – with aluminium threshold
Installation in a brick/concrete wall



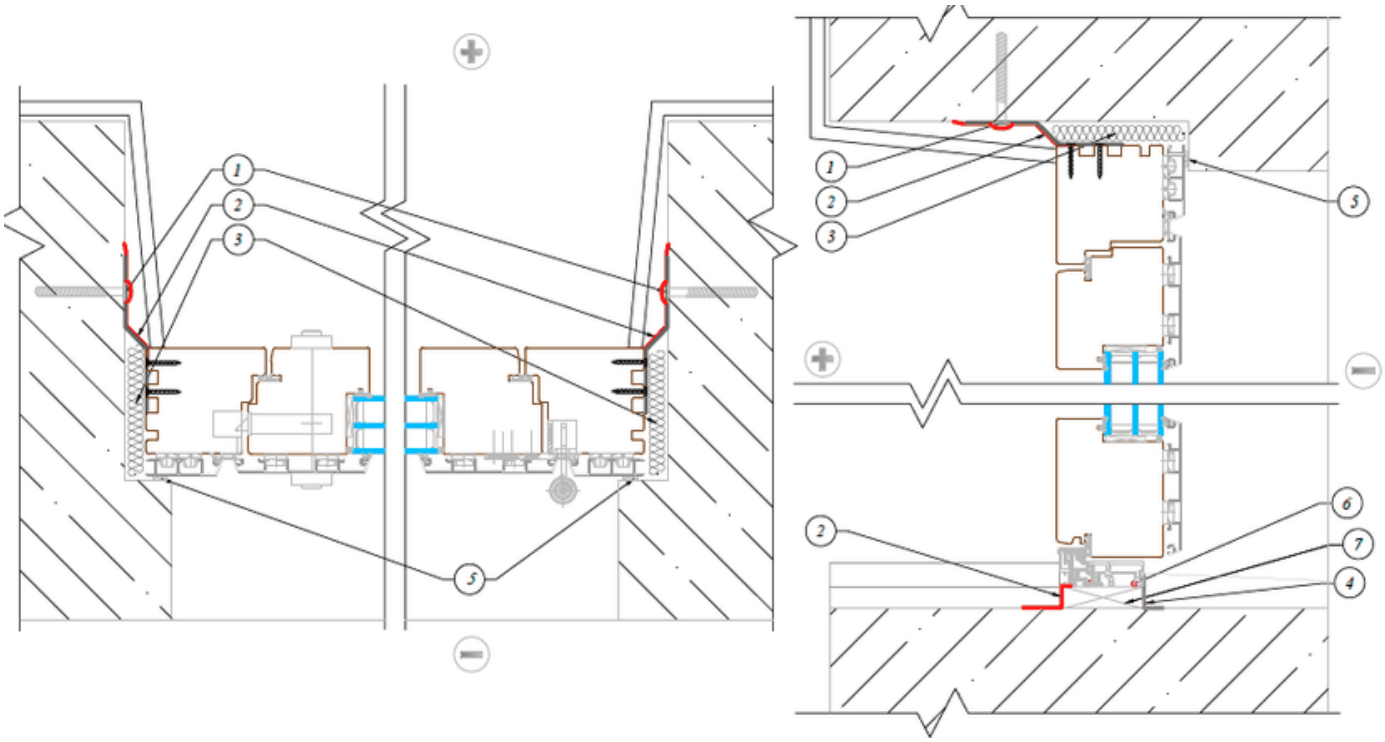
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IV78; 92 wooden entrance doors – inward opening – with aluminium threshold
Installation in a brick/concrete wall



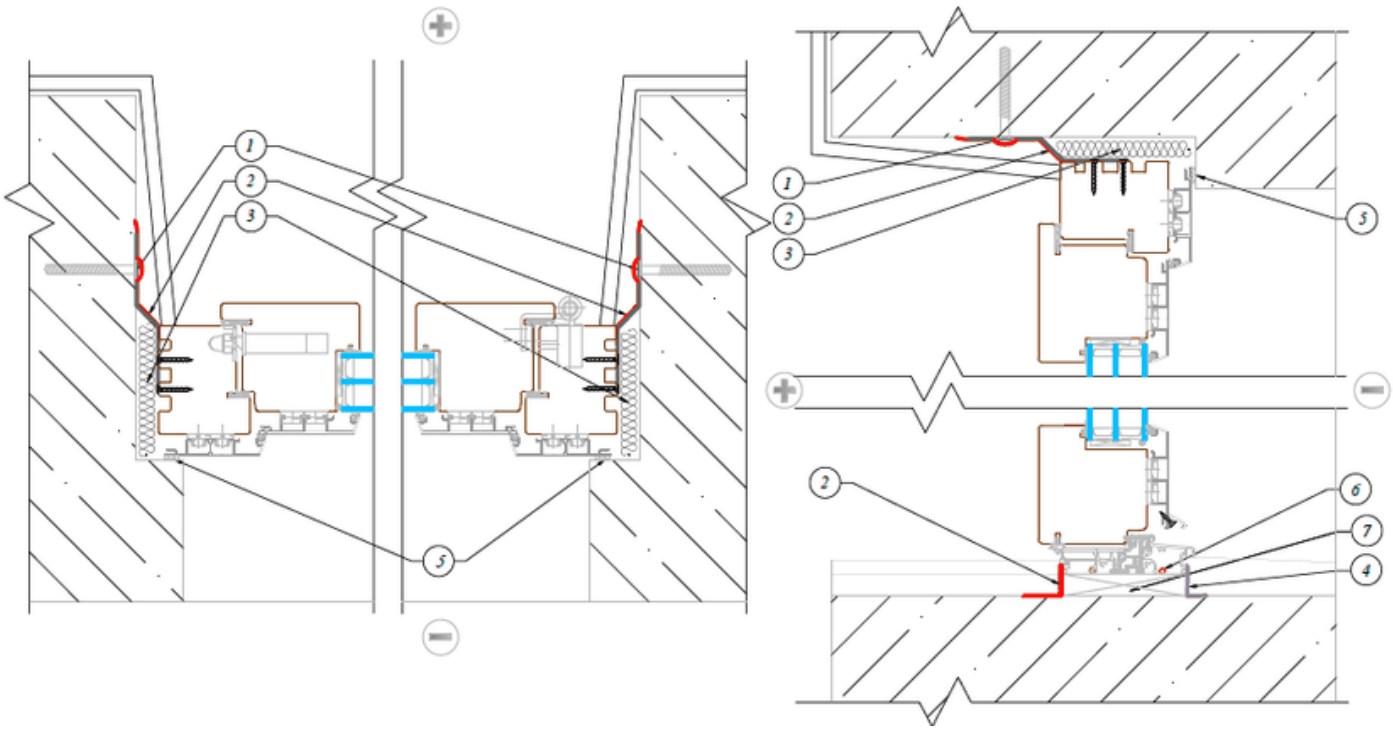
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block

IV78; 92 wood-aluminium entrance doors – outward opening – with aluminium threshold
Installation in a brick/concrete wall



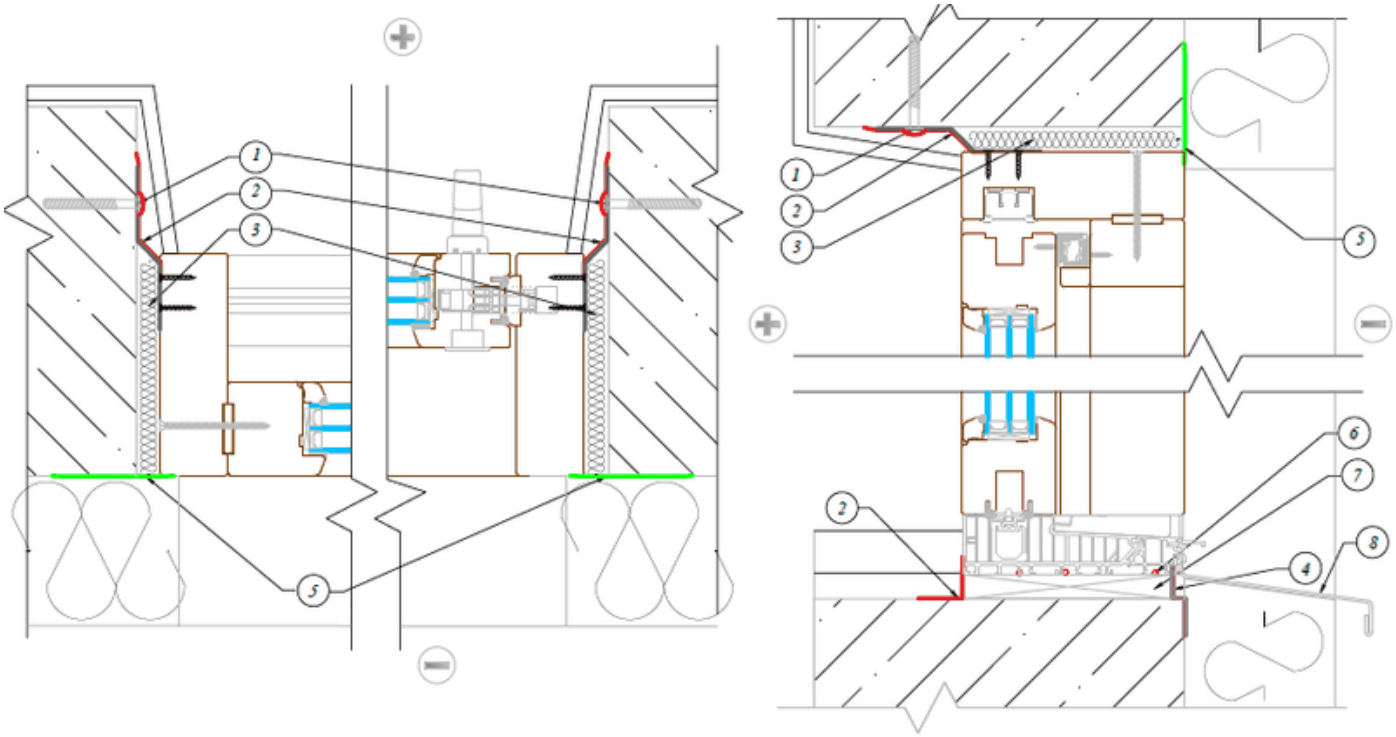
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block

IV78; 92 wood-aluminium entrance doors – inward opening – with aluminium threshold
Installation in a brick/concrete wall



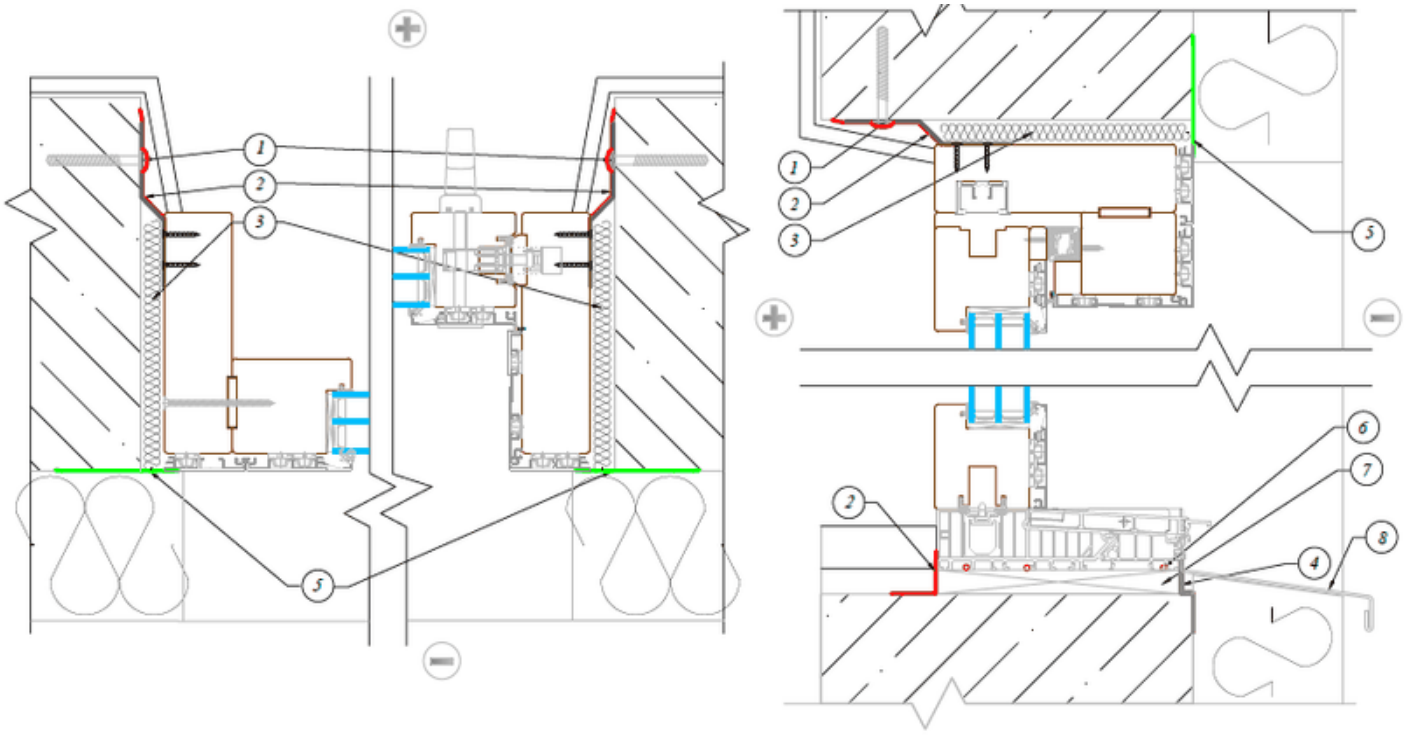
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block

Wooden sliding doors
Installation within the insulation layer with brackets



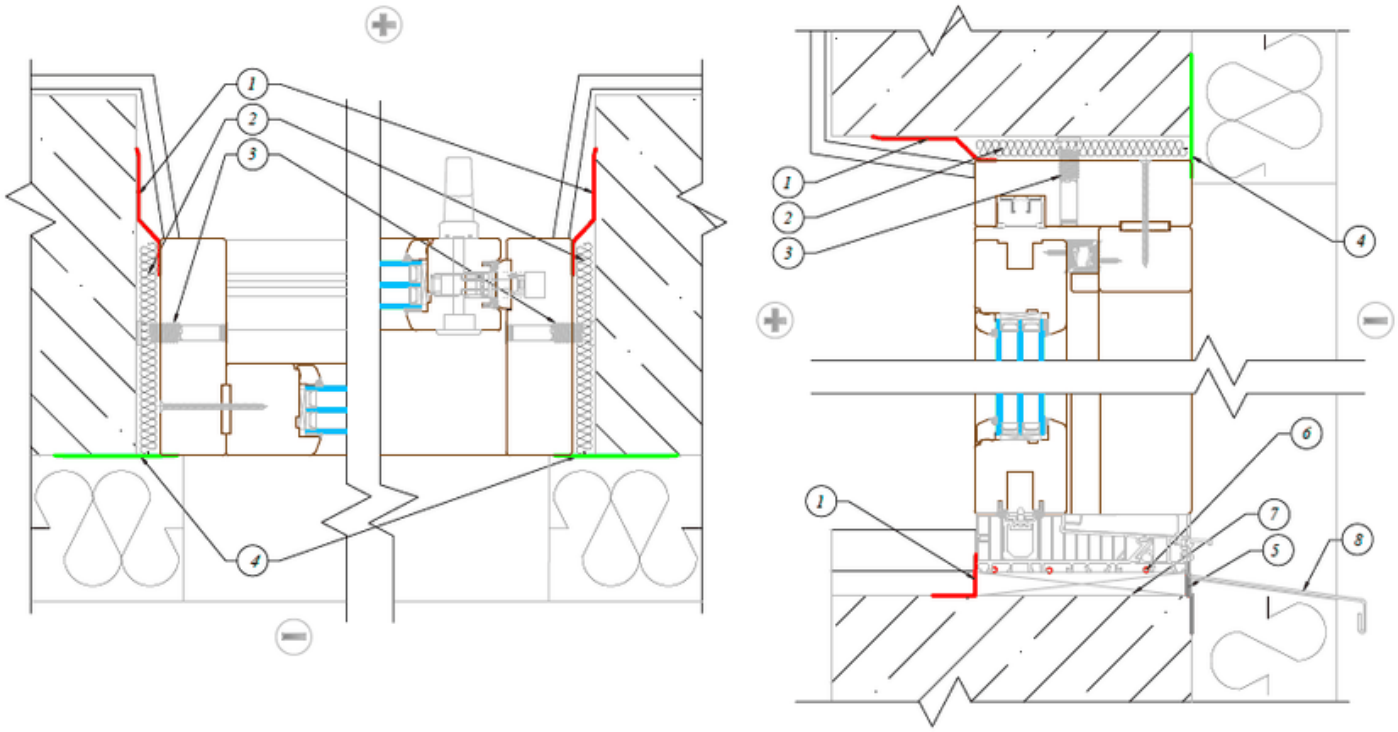
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block; 8 – external window sill

Wood-aluminium sliding doors
Installation within the insulation layer with brackets



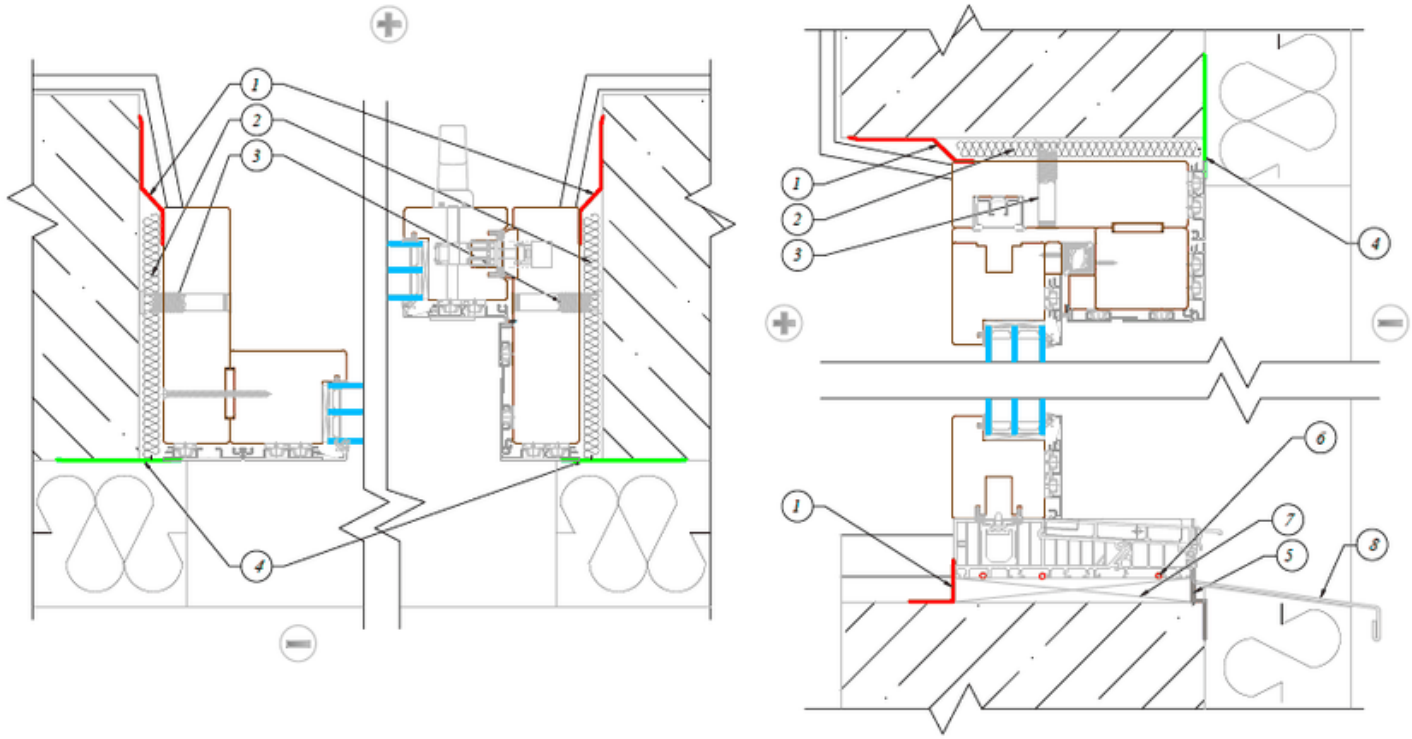
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block; 8 – external window sill

Wooden sliding doors
Installation within the insulation layer with Adjufix



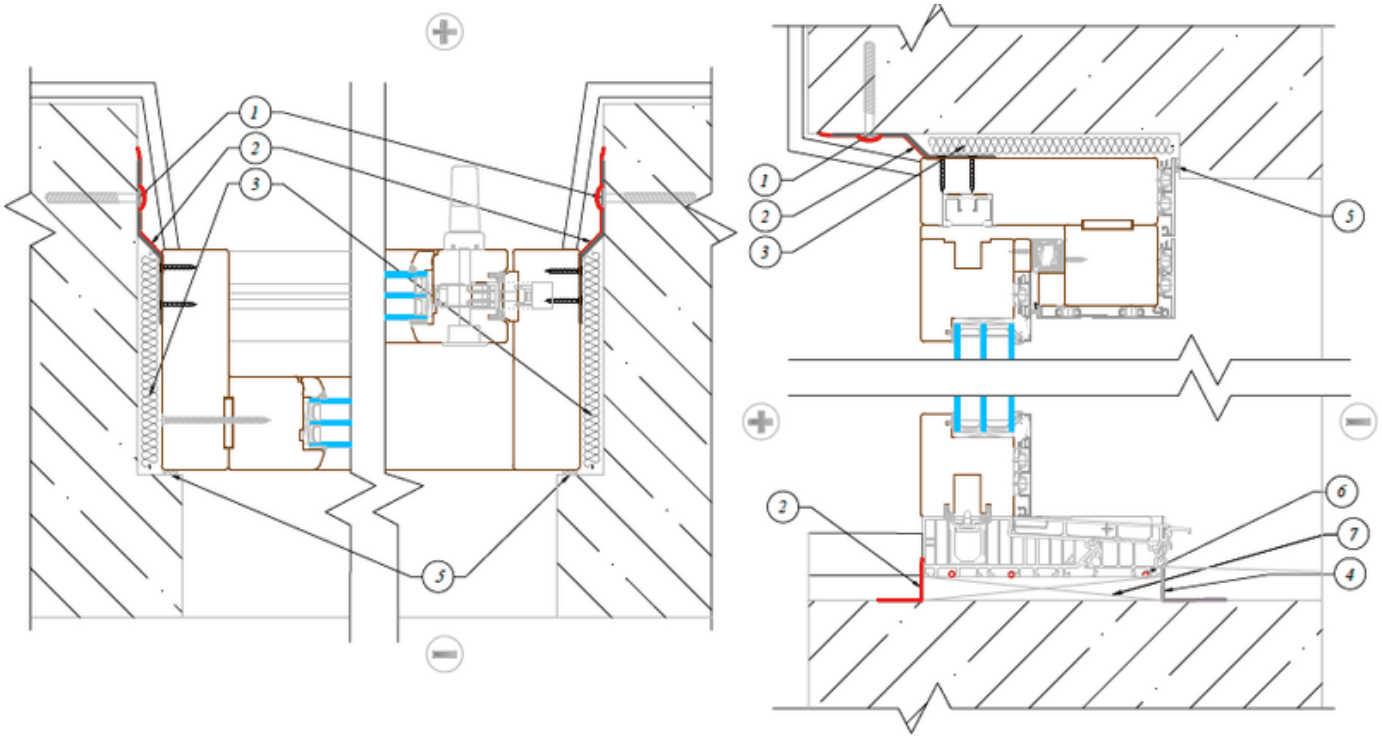
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – Adjufix fixing sleeve; 4 – external airtight tape; 5 – EPDM sealing tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block; 8 – external window sill

Wood-aluminium sliding doors
Installation within the insulation layer with Adjufix



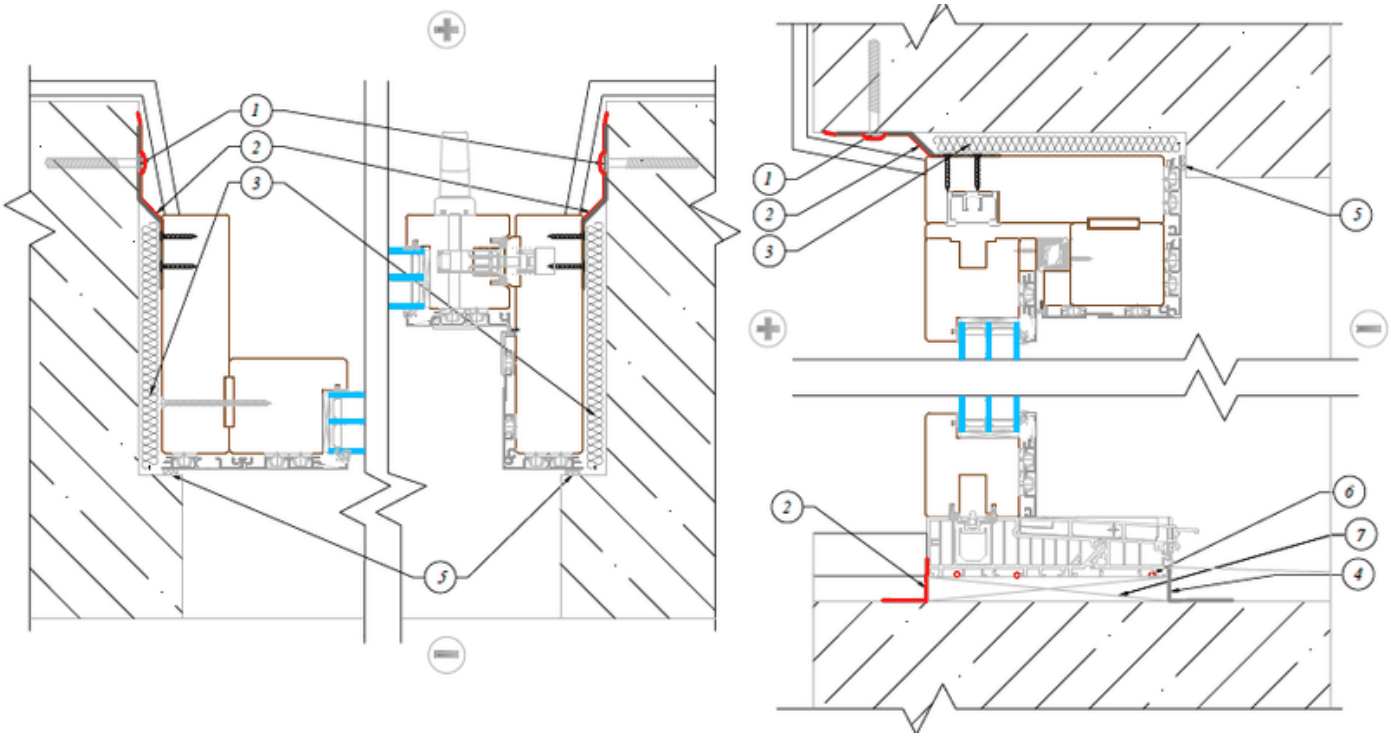
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – Adjufix fixing sleeve; 4 – external airtight tape; 5 – EPDM sealing tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block; 8 – external window sill

Wooden sliding doors
Installation in a brick/concrete wall with brackets



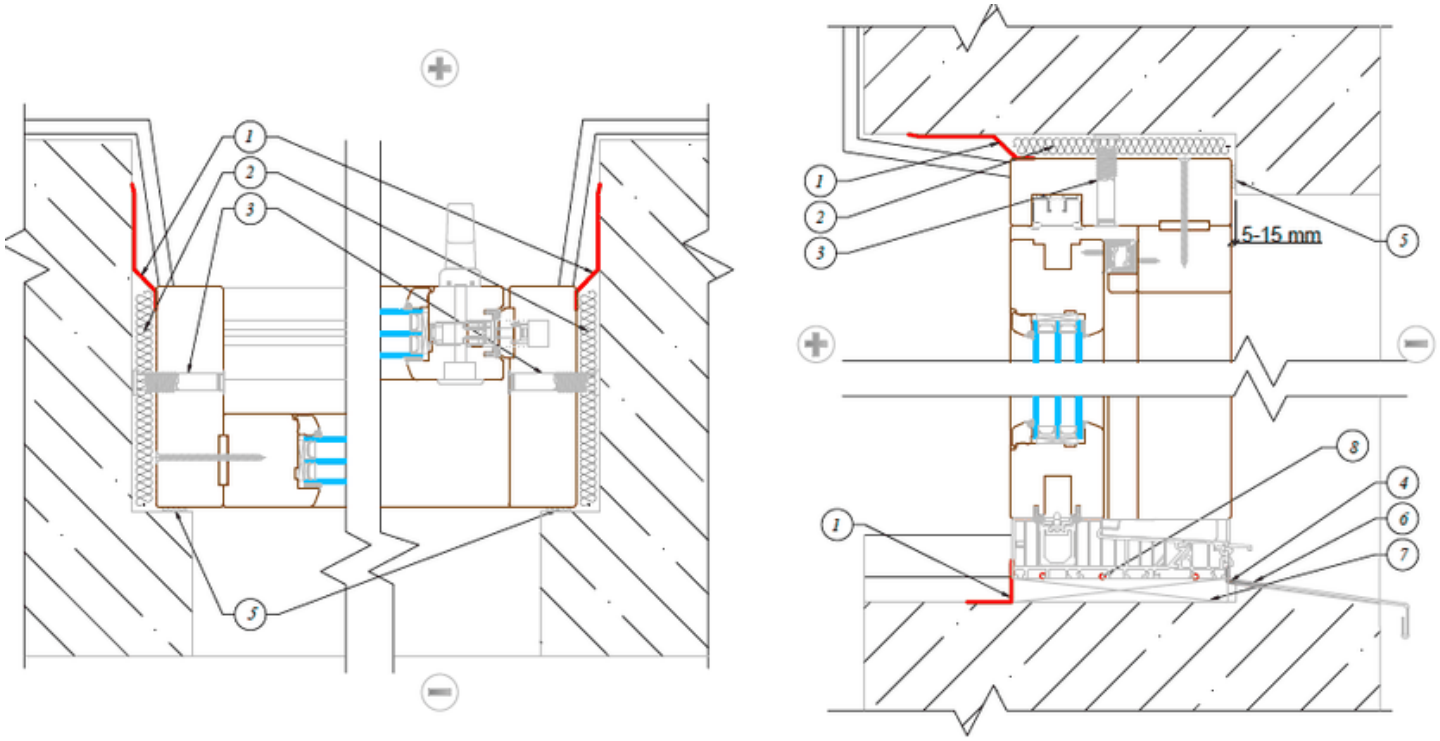
1 – installation bracket; 2 – internal airtight tape; 3 – thermal insulation – installation foam or stone wool; 4 – EPDM sealing tape; 5 – external airtight tape; 6 – silicone sealant along the entire length of the threshold; 7 – levelling block

Wood-aluminium sliding doors
Installation in a brick/concrete wall with brackets



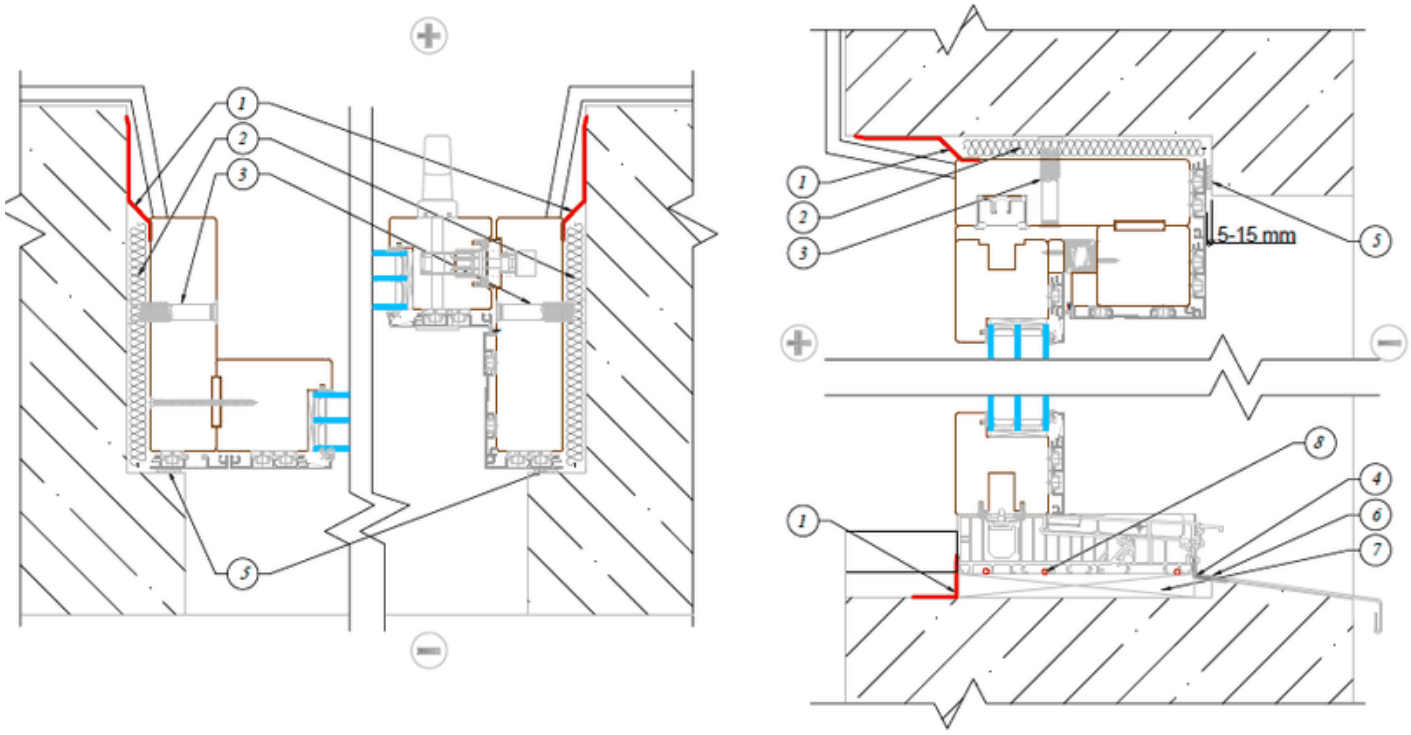
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Wooden sliding doors
Installation in a brick/concrete wall with Adjufix



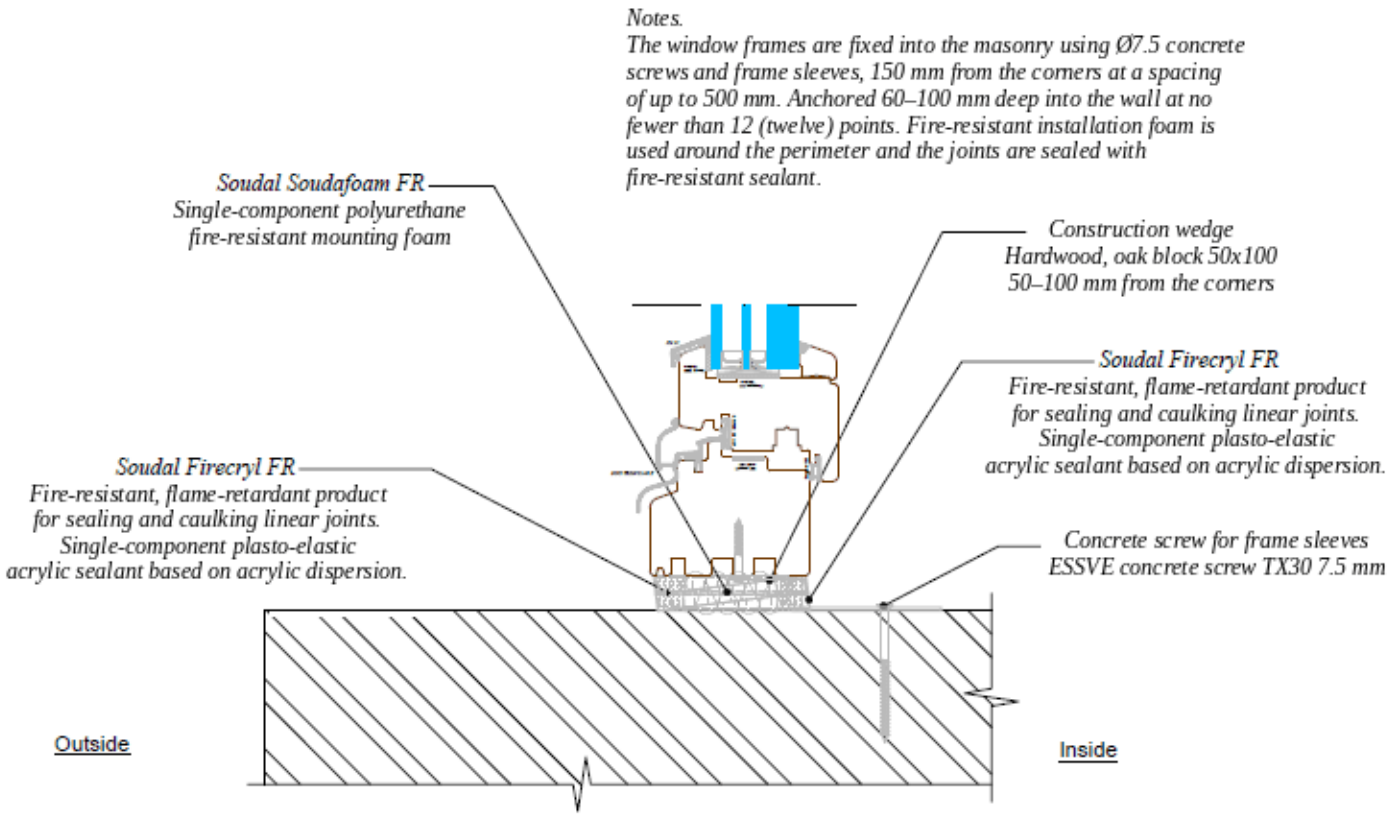
1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – Adjufix fixing sleeve; 4 – EPDM sealing tape; 5 – self-expanding tape; 6 – external window sill; 7 – levelling block; 8 – silicone sealant along the entire length of the threshold

Wood-aluminium sliding doors
Installation in a brick/concrete wall with Adjufix



1 – internal airtight tape; 2 – thermal insulation – installation foam or stone wool; 3 – Adjufix fixing sleeve; 4 – EPDM sealing tape; 5 – self-expanding tape; 6 – external window sill; 7 – levelling block; 8 – silicone sealant along the entire length of the threshold

- Products with CE marking and a defined fire resistance class covered by certificate No. 1325-CPR-3874 must be installed in accordance with the instructions below.
- The fire resistance class of the product is only valid if the product is installed using the specified materials and methods.



CHECKLIST

No.	Check item	Yes	No	Notes
A	**Delivery and acceptance**			
1	The delivered products match the order (quantity, dimensions, specification).	☐	☐	
2	The products were not damaged during transport. Cracks ≤ 1.5 mm in the side parts caused by pallet screws are acceptable.	☐	☐	
3	If damaged: photos taken, number of damaged products recorded in the CMR, AS “Arbo Windows” and the carrier informed immediately.	☐	☐	
B	**Storage rules observed**	☐	☐	
C	**Preparation for installation**			
4	Window / door size and weight, installation location and condition of the opening assessed; suitable fixings selected.	☐	☐	
5	Tools prepared.	☐	☐	
6	Opening dimensions compared with the product dimensions (space left for the installation joint).	☐	☐	
7	Opening cleaned of debris and foreign objects.	☐	☐	
8	Rooms are ventilated, relative humidity ≤ 60 %. Measured: _____ %	☐	☐	
D	**Installation**			
9	Load-bearing (support) blocks placed according to the diagram; they do not restrict thermal expansion and are protected from moisture.	☐	☐	
10	Product placed in the opening and adjusted vertically and horizontally with wedges or Adjufix.	☐	☐	
11	Corners at 90°, diagonals equal (D1 = D2). D1 _____ / D2 _____ mm	☐	☐	
12	Deviation ≤ 1.5 mm per 1 m, max. 3 mm over the total height. Deviation: _____ mm	☐	☐	
13	Product fixed (brackets at 90° ± 15° / Adjufix / screws through the frame).	☐	☐	
14	Fixing points: A ≤ 600 mm between points, E = 150–200 mm from corner / mullion; number not reduced.	☐	☐	
15	Installation wedges at the sides and top removed before closing the joints; support blocks left in the joint.	☐	☐	
16	Joints filled without voids; foam suitable for the temperature, amount does not bend the frame.	☐	☐	
17	Internal connection airtight, external connection protected from the weather.	☐	☐	
18	Wood-aluminium products: elastic, airtight connection between the aluminium cladding and the facade finish.	☐	☐	
19	Fire-resistant window installation instructions followed and the correct materials used.	☐	☐	
E	**Protection during construction work**			
20	On the facade side, windows / doors covered with a non-airtight material or cardboard.	☐	☐	
21	On the inside, windows / doors protected with film or paper; adhesive tape – e.g. TESA 4843.	☐	☐	
22	Stains from finishing materials cleaned off immediately (before drying).	☐	☐	
23	Reveal finishing aids not fixed with screws / nails through the window’s protective coating.	☐	☐	
F	**After installation**			
24	Hardware readjusted; sashes open and close without obstruction.	☐	☐	
25	Frame and threshold measured, levelled and aligned.	☐	☐	
26	Reveal finishing planned no later than 4 weeks after installation. Planned date: _____	☐	☐	



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