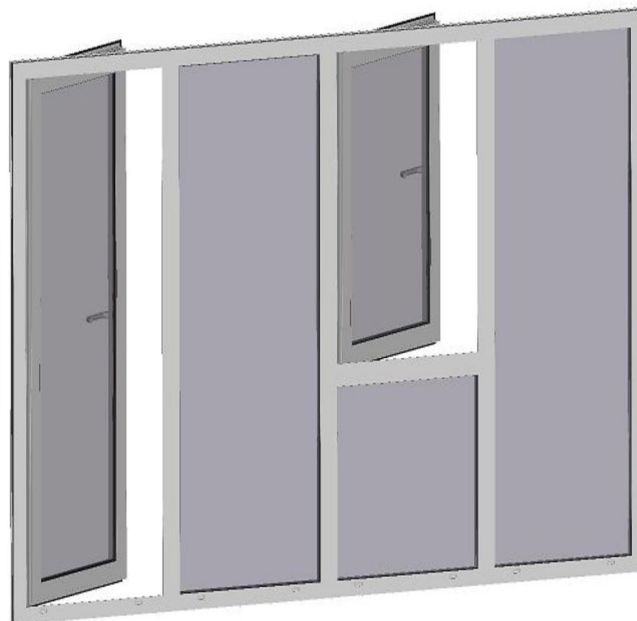


Glazing elements w50-c Instructions for assembly

Fixed glazing

English



Important notes for retailers and partners

Please read carefully before using!
These instructions must be kept by the retailer/partner



111375-0000

Contents

1	Instructions for installation instructions	4
2	Notational	4
	2.1 warnings	4
	2.2 Tips and Recommendations	4
3	Safety Notes	5
	3.1 Qualifications	5
	3.2 Transportation	5
	3.3 Fixings	5
	3.4 Ladders	5
	3.5 Fall protection	5
	3.6 Crushing and Cutting Zones	5
	3.7 Proper and Safe Use of GEs in General	6
	3.8 Handover	6
	3.9 Description of Construction and Function	6
	3.10 Notes on Adhesives and Sealants	6
	3.11 Unevenness and Slopes on the On-Site Connections	7
	3.12 Notes on Affixing Substructure Elements	9
4	Fitting the w50-c	10
	4.1 Fitting the Outer Frame	10
	4.2 Frame Recessed into the Ground	12
	4.3 Inserting the Glass and the Gap Seals	13
	4.3.1 Use of Glazing Packers	13
	4.3.2 Trimming and Fitting Gap Seals (optional)	14
	4.3.3 Inserting the Glass	15
	4.4 Fitting to the Terrazza	16
	4.4.1 Fitting at the Gutter	16
	4.4.2 Installing under the Side Roof Support	17
	4.4.3 Fitting to the Posts	19
	4.4.4 Fitting to the House Wall	20
	4.4.5 Fitting the Wind Load/Wind Pressure Bracket/Support to the Side Trapezoidal Element	21
	4.4.6 Assembling Sottezza Pure next to the lateral trapezium element	22
5	Inserting the Glass	23
6	Making adjustments	25
	6.1 Adjusting and Servicing the Sliding Door Hinges on Windows and Doors	25
	6.1.1 Horizontal Adjustment of the Sliding Door Hinges	25
	6.1.2 Vertical Adjustment of the Sliding Door Hinge (height adjustment)	26
	6.1.3 Servicing the Sliding Door Hinges	27
7	Maintaining	27
8	General Notes on Cleaning	27
9	Operation	28
	9.1 Operating Swivel Windows and Hinged Doors	28
	9.2 Operating Tilt-and-Turn Windows / Tilt-and-Turn Doors	30
10	Disposal	30
11	EC Declaration of Conformity	31

Illustration 1: Unevenness and Slopes on the On-Site Connections.....	7
Illustration 2: Dimensions of the opening of the connecting passage	8
Illustration 3: Various frame profiles.....	11
Illustration 4: Recessing the bottom frame profile into the ground.....	12
Illustration 5: Use of Glazing Packers.....	13
Illustration 6: Trimming and Fitting Gap Seals	14
Illustration 7: Inserting the Glass	15
Illustration 8: Mounted under the eaves.....	16
Illustration 9: Mounted under the roof rack side.....	17
Illustration 10: Installing the trapezium	18
Illustration 11: Assembly to the posts.....	19
Illustration 12: Mounting on the wall	20
Illustration 15: Installation of wind load carrier.....	21
Illustration 14: Assembling Sottezza Pure next to the lateral trapezium element.....	22
Illustration 15: Insertion of the glass strips with fixed glass	23
Illustration 16: Insertion of glazing bars on windows and doors.....	24
Illustration 17: Adjusting the top and bottom sliding door hinges.....	26
Illustration 18: Operation of three windows and three doors.....	28
Illustration 19: Close the door by means of the puller handle.....	29
Illustration 20: Operation of tilt and turn windows / doors, tilt-	30



1 Instructions for installation instructions

- The design and installation on site must remain the responsibility of the professional construction manager, because the different permit, building conditions and building regulations are no uniform instructions.
- This means in particular that all the screws to fasten the roof to the existing structural connections (rear and side wall of the house, concrete slab, etc.) according to the structural conditions and structural requirements have to be interpreted.


2 Notational

2.1 warnings

The warnings can be distinguished according to persons and property. For personal injuries, the signal word "Danger" is used for property damage, the signal word "Caution".

	Immediate danger to life and limb!
	Immediate risk of product and the environment!

2.2 Tips and Recommendations

	Highlights useful tips and information for quick and accurate assembly out.
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3 Safety Notes

- Read the Assembly Instructions before fitting the product for the first time.
- For personal safety, it is important that these instructions are complied with.
- Non-compliance means the manufacturer does not carry any liability.
- The customer must keep all instructions, and if the product is sold, they must be given to the new owner.

3.1 Qualifications

The assembly instructions are aimed at qualified technicians who have knowledge of and are experienced in the following areas:

- Safety at work, operating safety and accident prevention regulations
- Use of ladders and scaffolding
- Handling and transporting long, heavy components
- Handling and transporting glass panes
- Handling tools and machines
- Fitting fixings
- Assessment of building fabric
- Start-up and operation of the product.

If one of these qualifications is lacking, a qualified assembly firm must be brought in.

3.2 Transportation

The maximum permissible axle loads and gross vehicle weight of the goods vehicles must not be exceeded. Loading a vehicle can alter its handling characteristics. The transported goods must be fastened properly and safely. Keep weinor roof packaging dry. Softened packaging can come loose and cause accidents. Packaging which has been opened for goods inward purposes must be sealed again properly for further transport.

3.3 Fixings

Responsibility for the assembly work that is being carried out on-site must always rest with the foreman; it is not possible to issue uniformly applicable instructions due to the differing building conditions and building regulations that apply at every site. Above all, this implies that all bolts and screws required to affix the weinor roof to the on-site connections (rear and side house walls, concrete base, etc.) must meet the requirements of the on-site building conditions and structural safety.

3.4 Ladders

Do not lean ladders against a weinor roof that has not been full installed. They must be set on a firm base and provide adequate support. Only use ladders with adequate load-bearing capacity.

3.5 Fall protection

Workers run the risk of falling when working at elevated heights. Suitable anti-fall guards must be used.

3.6 Crushing and Cutting Zones

Beware of crushing and cutting zones when installing the roof, e.g. when laying the roof covering, as there is a risk of serious injury.

3.7 Proper and Safe Use of GEs in General

Weinor glazing elements are intended to be fitted in conservatories, under patio roofs or other connecting passages.

Glazing elements may only be used for vertical glazing.

Important! Please remember that certain areas require the use of laminated sheet glass (LSG) or single-pane safety glass or single-pane safety glass with heat-soak test.

The planning and installation of glazing elements in or around parapets or in areas requiring guardrails must be performed in accordance with current regulations and guidelines and are the responsibility of the site foreman.

All supplied profiles and components (especially frame and stave profiles) must be fitted without fail.

3.8 Handover

All directions for use must be handed over to the user who must also be instructed in the operation of the equipment. Detailed instruction on the safe and proper operation of weinor roofs must be given. Failure to comply with the instructions or use the roof as prescribed may result in damage to the roof or accidents occurring. The instructions must be kept by the customer and passed on to the new owner if ownership of the roofs passes to a third party.

3.9 Description of Construction and Function

Only high-quality corrosion resistant materials are used in the folding partition. The sections are made of extruded aluminium. All connecting parts, such as screws, are made of stainless steel. All outside aluminium parts are powder coated.

3.10 Notes on Adhesives and Sealants

Recommendations for selecting adhesive and sealant:

- "Take Seal" sealant from the Fix-Tec company

Alternative jointing compounds:

- Please follow the manufacturer's guidelines
- Check on-site whether these are suitable

Sealing the on-site connections

- Choose adhesives and sealants in accordance with the on-site building conditions
- Please follow the manufacturer's guidelines

Preparations before applying the adhesive and sealant:

- Clean and prime all parts and surfaces before gluing
- If textured paint has been used, sand down the areas to be glued then clean and prime
- The gluing/sealing work should only be performed at reasonable temperatures (always follow the manufacturer's guidelines for adhesives and sealants)

Failure to follow these recommendations may result in:

- leaks in the on-site connections
- a loss in adhesion on certain parts

3.11 Unevenness and Slopes on the On-Site Connections

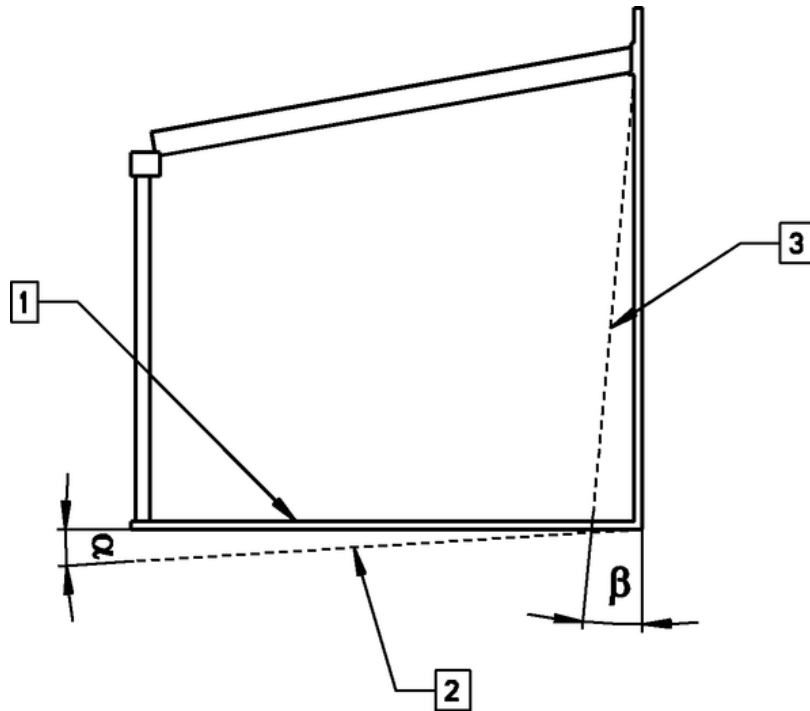


Illustration 1: Unevenness and Slopes on the On-Site Connections

1	Level assembly base
2	Sloping assembly base
3	Sloping facade
α, β	angle

Any unevenness and slopes on the on-site connections (Terrazza or other connecting passages) must be levelled out on-site.

This is necessary so as:

- to ensure the glazing element is installed correctly
- to ensure the glazing element works properly

Possible resources / installation material for leveling out unevenness:

- Support blocks
- Frame wideners
- Compensation profiles fitted to guide profiles and the side frame (optional)

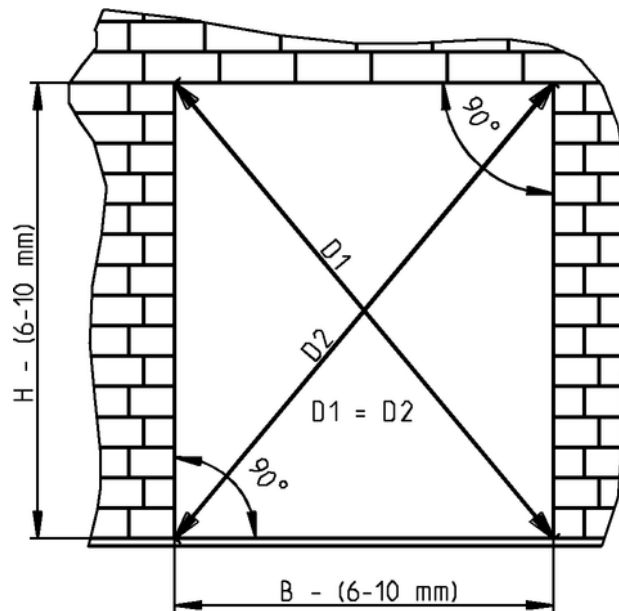


Illustration 2: Dimensions of the opening of the connecting passage

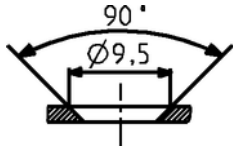
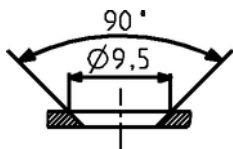
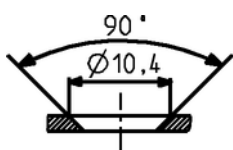
H	Height folding partition
B	Width folding partition
D1	Diagonal 1
D2	Diagonal 2

When installing the glazing element in a connecting passage (in a wall, for example), it must always be ensured that the dimensions of the opening of the connecting passage are higher and wider than those of the folding partition. The height and the width of the connecting passage should each be 6 to 10 mm greater than the folding partition itself.

Prior to installing the folding partition into the connecting passage, always check that the two diagonals in the opening are of equal length and that the four corners are each at an angle of 90° (see Figure).

3.12 Notes on Affixing Substructure Elements

The table below contains an overview of the holes that need to be drilled for assembly on a Terrazza:

Standardised part	Ø Core hole (Roof)	Ø Clearance hole (Frame)	Countersinking
Slotted pan head tapping screw 3,9	3.5 mm	4.2 mm	None
Slotted pan head tapping screw 4,2	3.5 mm	4.5 mm	None
Countersunk self-tapping screw 3,9	3.5 mm	4-5 mm	
Countersunk self-tapping screw 4,2	4 mm	5.5 mm	
Countersunk self-tapping screw 4,8	4 mm	5.5 mm	
Hex self-tapping screw 6,3	5 mm	6.7-7 mm	None
Flathead blind rivet nut F-M6x9	9.1 mm	/	None

Always ensure that the screws are countersunk into the frame of the glazing elements. Protruding screws may well damage the glass panes or result in limited functionality.

4 Fitting the w50-c

- Carefully unpack the parts to the w50-c, ensuring that none of the parts are damaged or the powder-coated parts scratched.
- The w50-c can be fitted to a Terrazza or into other openings such as a wall opening.
- If the w50-c is fitted to a Terrazza, the following assembly sequence must be kept:
 - Fit the Terrazza
 - Fit the substructure elements
- When fitting to a Terrazza, we recommend that you use the fixings shown in the illustrations below. If alternative fixings are used, it must be ensured on-site that these fixings are suitable (number, size and length of fixings).
- If the folding partition is to be bolted to masonry or an assembly base, the fixings must be selected on-site and be suitable for the building conditions.

4.1 Fitting the Outer Frame

- Clean and degrease the wall opening sides or the sides of the opening to the Terrazza. In doing so, remove all dust, loose plaster, etc. to ensure that the sealing joint that is subsequently created by applying a suitable adhesive and sealant holds properly. If the wall opening or the Terrazza opening is damp, this must be dried first – by using a hot air blower or compressed air dryer, for example – before fitting the w50-c.
- The masonry or assembly base to which the top or bottom section of the frame is screwed must be even and capable of supporting the weight of the w50-c. This will need to be checked on-site especially when fitting the w50-c into a wall opening. If the masonry or assembly base is not suitable, the masonry or assembly base will need to be reinforced, by adding steel girders to masonry, or concrete or steel to the assembly base, for example.
- Drill screw holes every 400 mm around the w50-c frame to connect the frame to the masonry or the Terrazza.
- When fitting to the Terrazza, drill 5.5 mm holes for the screws. When fitting to masonry, ensure that the holes tally with the fixings that are chosen on-site.
- Then counter sink the holes.
- Insert the w50-c into the wall opening or the Terrazza opening. Align the frame horizontally and vertically and then place the frame on the wall opening or Terrazza and mark the holes.
- Remove the w50-c from the opening and drill holes into the masonry or Terrazza at the marked points.
- When fitting the frame to a Terrazza, drill 4 mm holes for the screws. When fitting to masonry, ensure that the holes tally with the fixings that are chosen on-site.
- Apply adhesive, and pre-compressed sealing tape if necessary, to the outer sections of the frame.
- Re-insert the frame into the opening, ensuring that the holes in the frame and those in the wall opening or Terrazza are exactly over each other.
- Screw the frame to the masonry or Terrazza.
- Please note that the various types of elements for the w50-c come supplied with different sizes of frame sections.
- Each different frame section requires different fixings.
- When fitting to masonry or an assembly base, ensure that you choose the right fixings to suit the building conditions.

The illustrations below show how the small frame is fitted to the Terrazza.

The same procedure applies for the large frame except that the above-mentioned fixings are used.

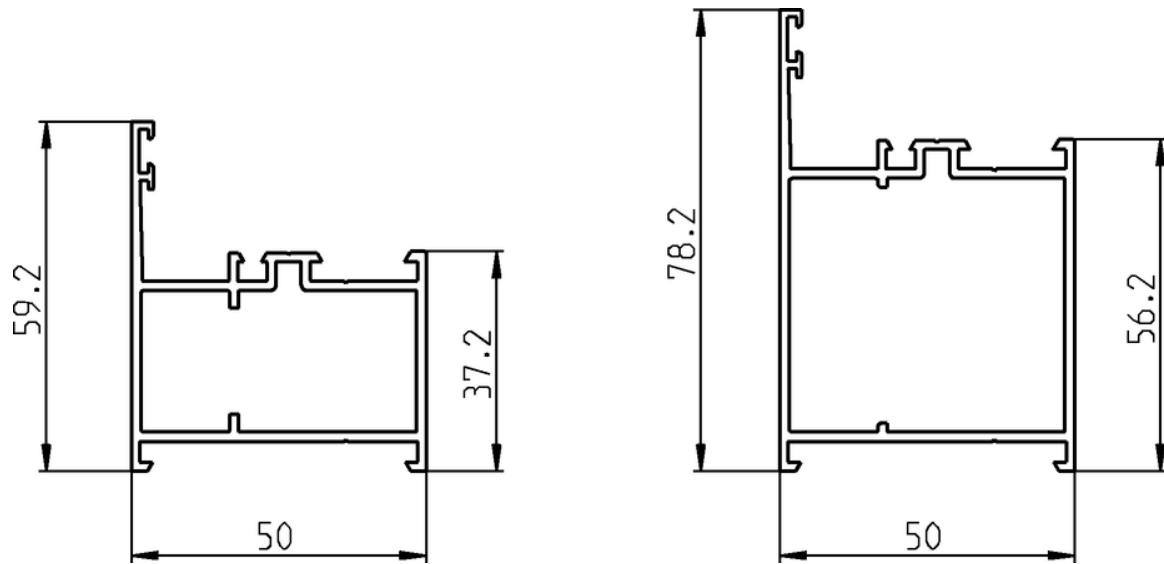


Illustration 3: Various frame profiles

Small frame for use with:

- Fixed glazing
- Tilt and turn windows
- Tilt and turn doors

Fixings on the Terrazza:

- 4,8x45 countersunk self-tapping screw

Large frame for use with:

- Tilt doors
- Parallel tilt-and-slide doors (PSK)

Fixings on the Terrazza:

- 4,8x60 countersunk self-tapping screw

4.2 Frame Recessed into the Ground

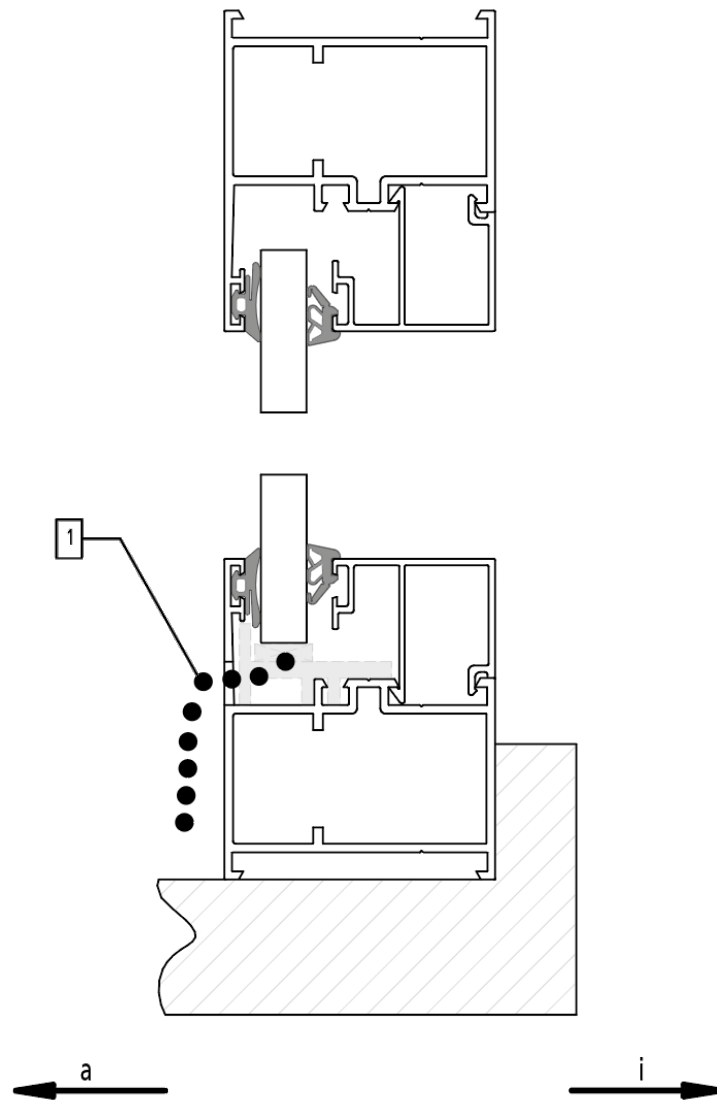


Illustration 4: Recessing the bottom frame profile into the ground

a	Exterior
i	Interior
1	Water drain

- The w50-c frame can be recessed into the ground.
- To do this, please note the following:
 - If the floor track is to be recessed, this must already have been considered at the time the w50-c is ordered.
 - Just how deep the w50-c can be recessed into the ground depends on the type of unit being used (fixed glazing / door / parallel tilt-and-slide door, etc.).
 - When recessing the unit into the ground, it must be ensured that the glazing beads can still be fitted.
 - The proper functioning of the w50-c must not be comprised as a result of the frame being recessed.
 - Always ensure that there is sufficient water drainage from the frame. If the frame is recessed so deeply that the existing drain holes are also under the ground, it must be ensured on-site that there is sufficient water drainage.
 - The water drainage must be fitted in such a way that water can drain off to the outside. No water must be allowed to penetrate the interior. The water drainage is vital as it ensures that no water remains in the frame profiles which might freeze in winter.

4.3 Inserting the Glass and the Gap Seals

4.3.1 Use of Glazing Packers

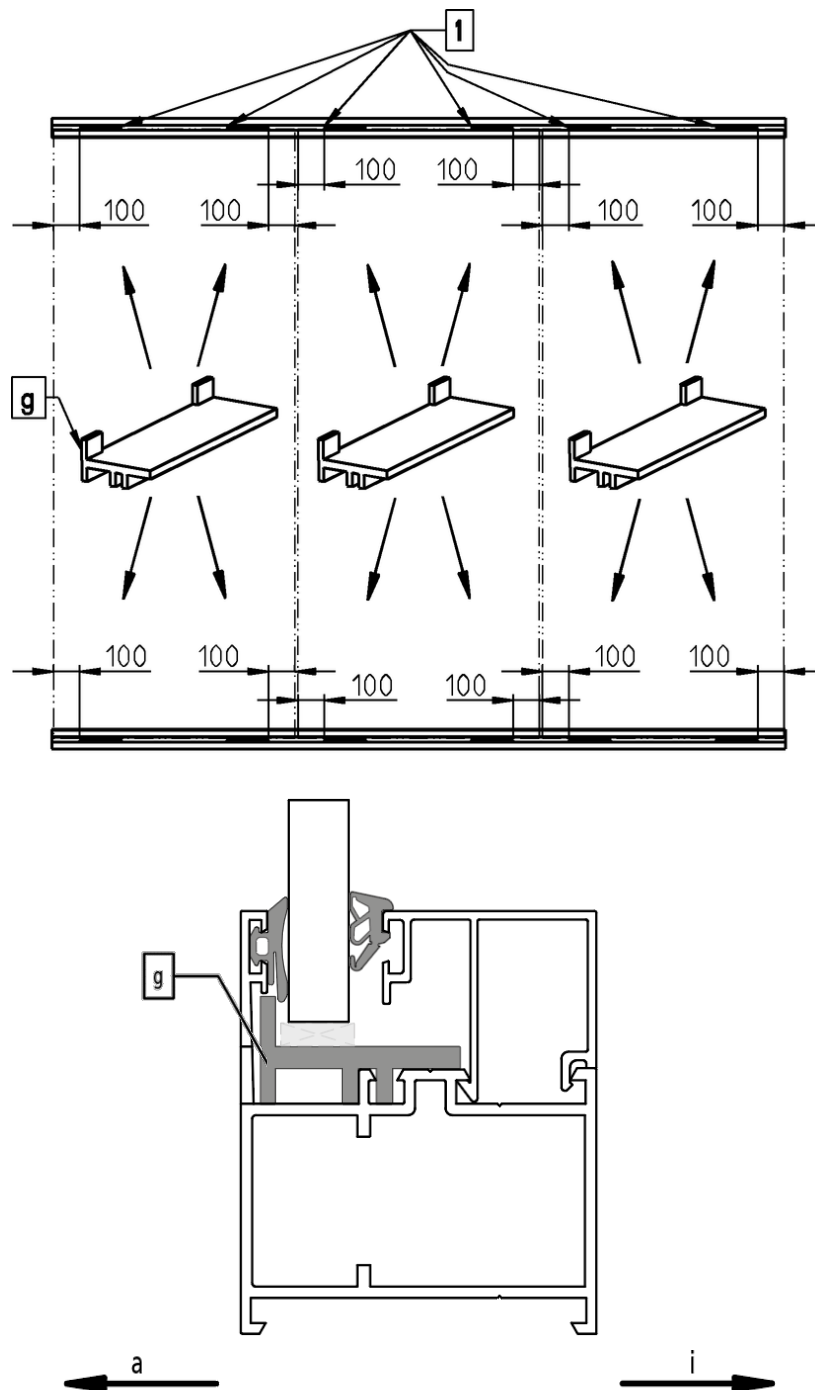



Illustration 5: Use of Glazing Packers

- | |
|---|
| <p>a Exterior</p> <p>i Interior</p> <p>g Glazing packer</p> <p>1 Before inserting the glass panes, the glazing packers at the top must be secured, e.g. glued, to prevent them slipping off at the sides or detaching. This is particularly necessary with angled elements.</p> |
|---|

- For each pane of glass, at least two glazing packers (one at the top and one at the bottom) need to be attached inside the frame of the w50-c lite as shown in the above drawing.
- The number of glazing packers required will depend on the width of the glass panes. If more glazing packers are fitted inside the frame of the w50-c lite, the remaining ones will need to be distributed across the entire width of the pane of glass.

4.3.2 Trimming and Fitting Gap Seals (optional)

 CAUTION	<p>The gap seals can be attached to the glass panes, before inserting the glass panes. It is not possible to fit the gap seals after the panes have been inserted.</p>
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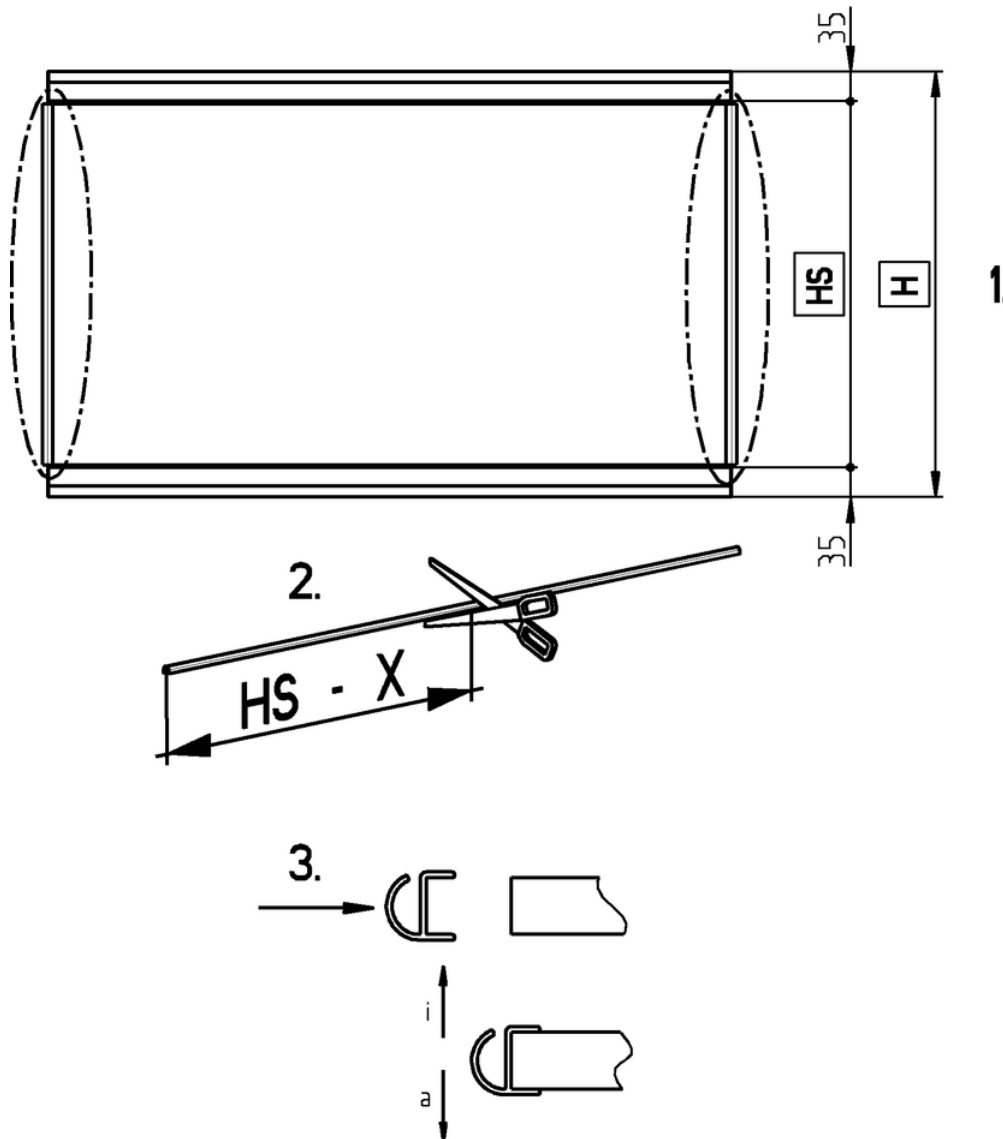


Illustration 6: Trimming and Fitting Gap Seals

a	Exterior
i	Interior
H	Height of w50-c lite
HS	Maximum height of gap seal
1	Determine the maximum height HS of the gap seal.
2	Trim the gap seal accordingly. The gap seal will need to be trimmed somewhat shorter (HS-X) to ensure that it does not get trapped between the top and bottom frames.
3	Attach the gap seal to the glass panel.

- A gap seal can be ordered for the w50-c lite as an optional extra.

4.3.3 Inserting the Glass

 CAUTION	<p>If several glass panes are in use, the already inserted panes are only secured using the glazing bead.</p> <p>If required, also secure the glazing bead to prevent it from detaching</p>
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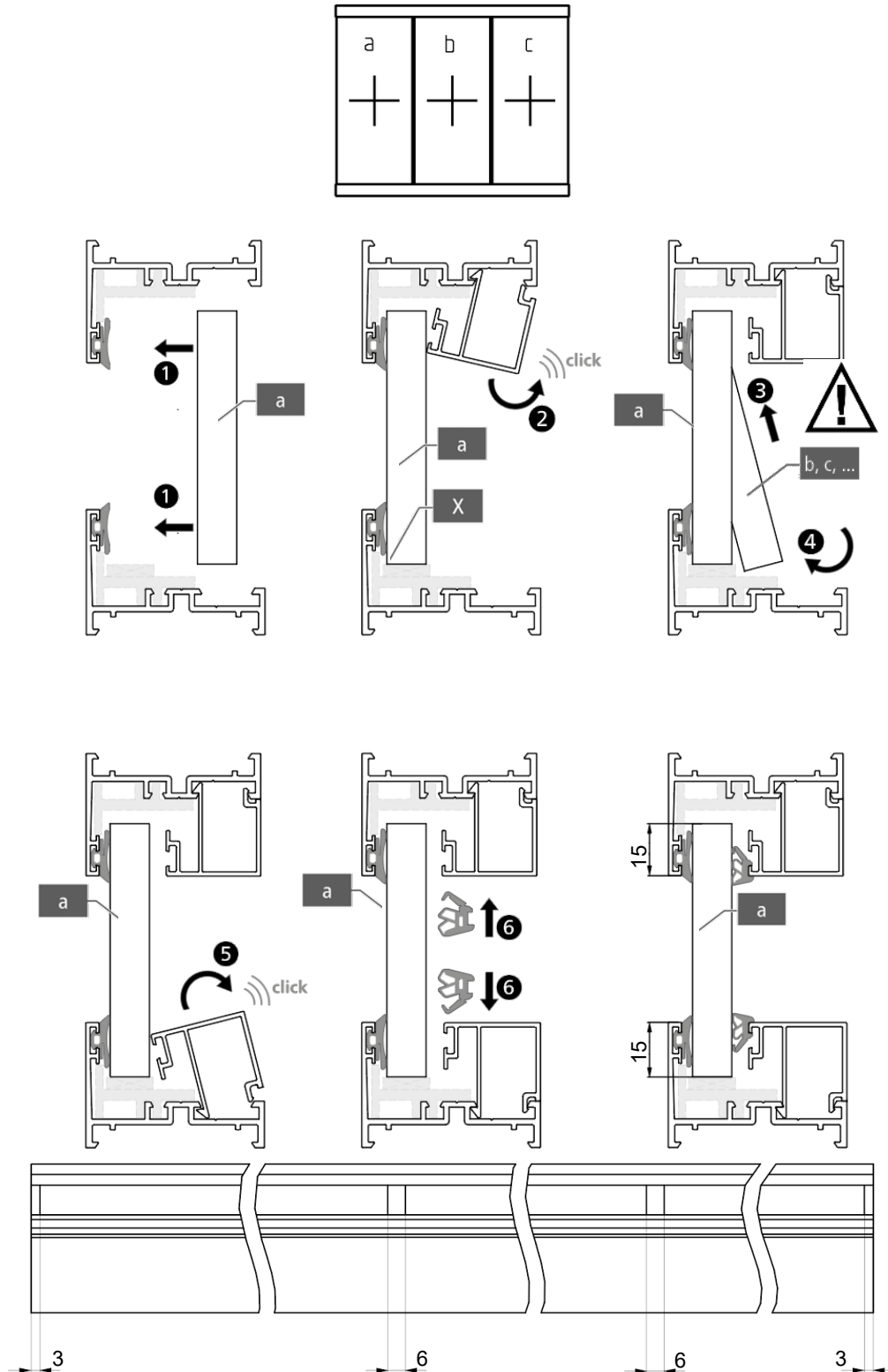



Illustration 7: Inserting the Glass

<p>a, b, c Leaves w50-c lite</p> <p>X Line on-site with glazing packers</p>

4.4 Fitting to the Terrazza

The following cross-sections showing how the w50-c is fitted to the Terrazza are only examples of how the installation work can be performed. The actual fitting of the w50-c to the Terrazza may differ from the cross-sections shown.

4.4.1 Fitting at the Gutter

	<p>As a rule, the w-50-c is fitted behind the posts. Before fitting at the gutter, it will be necessary to create the right installation conditions on-site. Where small element widths apply, only one screw can be affixed to the adjoining side components. Whether or not the side screw connection is enough will need to be decided at the site of installation.</p>
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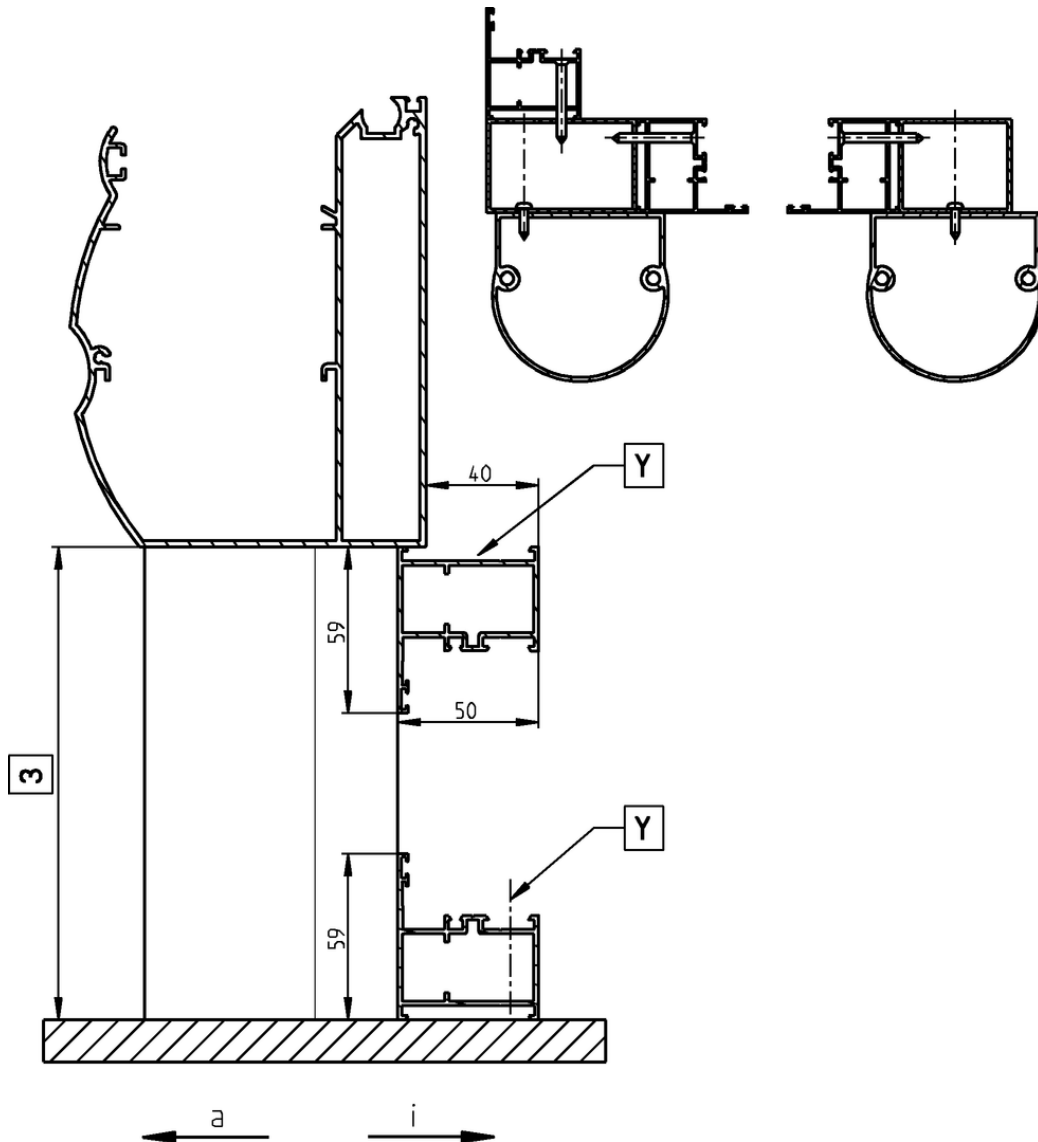


Illustration 8: Mounted under the eaves

a	Outside
i	Inside
Y	Gland site, fasteners must be determined by customer
3	Bottom cross member = order

4.4.2 Installing under the Side Roof Support

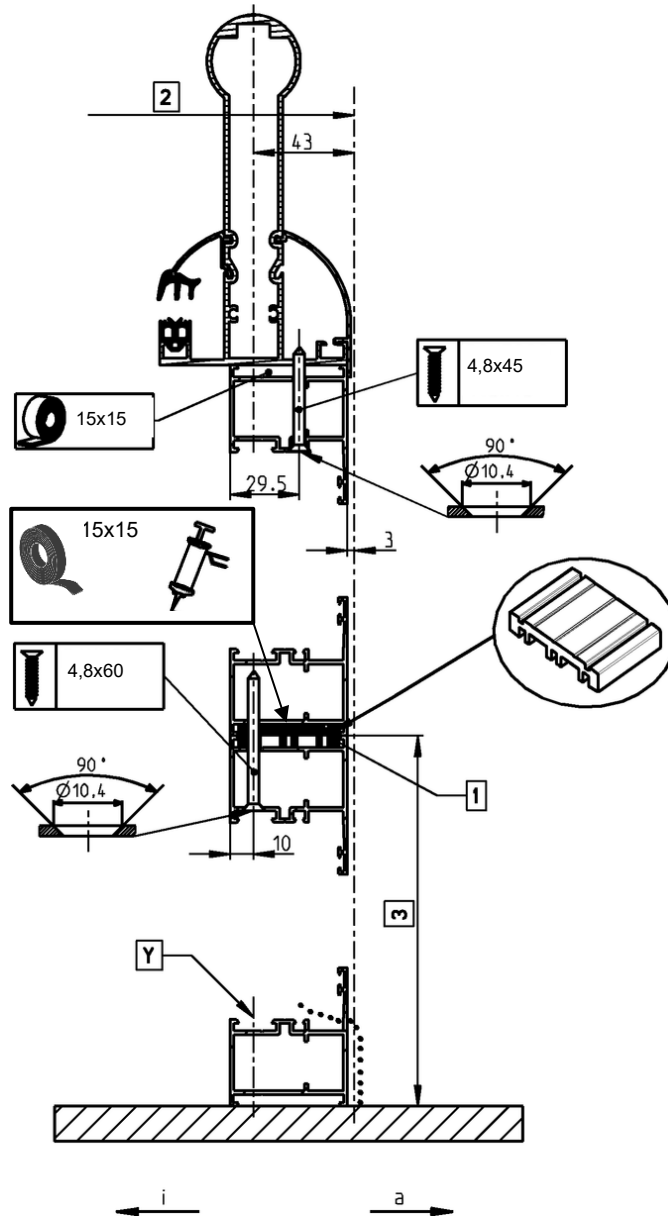


Illustration 9: Mounted under the roof rack side

a	Outside
i	inside
Y	Gland site, fasteners must be determined by customer
1	Coupling framework, the flexibility of mixing
2	width Terrazza
3	Lower edge of gutter = order

- As a rule, the side trapeziums are fitted so that the bottom edges of the trapeziums are in line with the bottom edge of the gutter.
- Please note that the side roof support, which already has to bear the load of the roof covering, may sag. This may cause the trapeziums to appear too big where they are fitted at the gutter.
- For this reason, please push the side roof support upwards while fitting the trapezium so that it is virtually straight (see Figure) as this will allow you to fit the trapezium so that the bottom edge of the trapezium is in line with the bottom edge of the gutter.

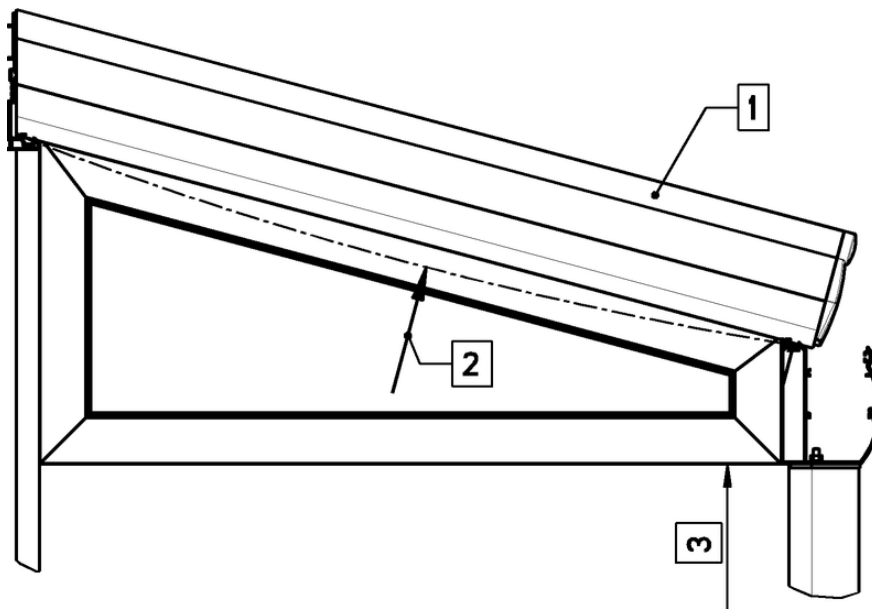


Illustration 10: Installing the trapezium

- | |
|---|
| <ol style="list-style-type: none">1 Side roof support2 While installing the trapezium, push the roof support upwards.3 Bottom = bottom trapezoidal gutter = order |
|---|

4.4.4 Fitting to the House Wall

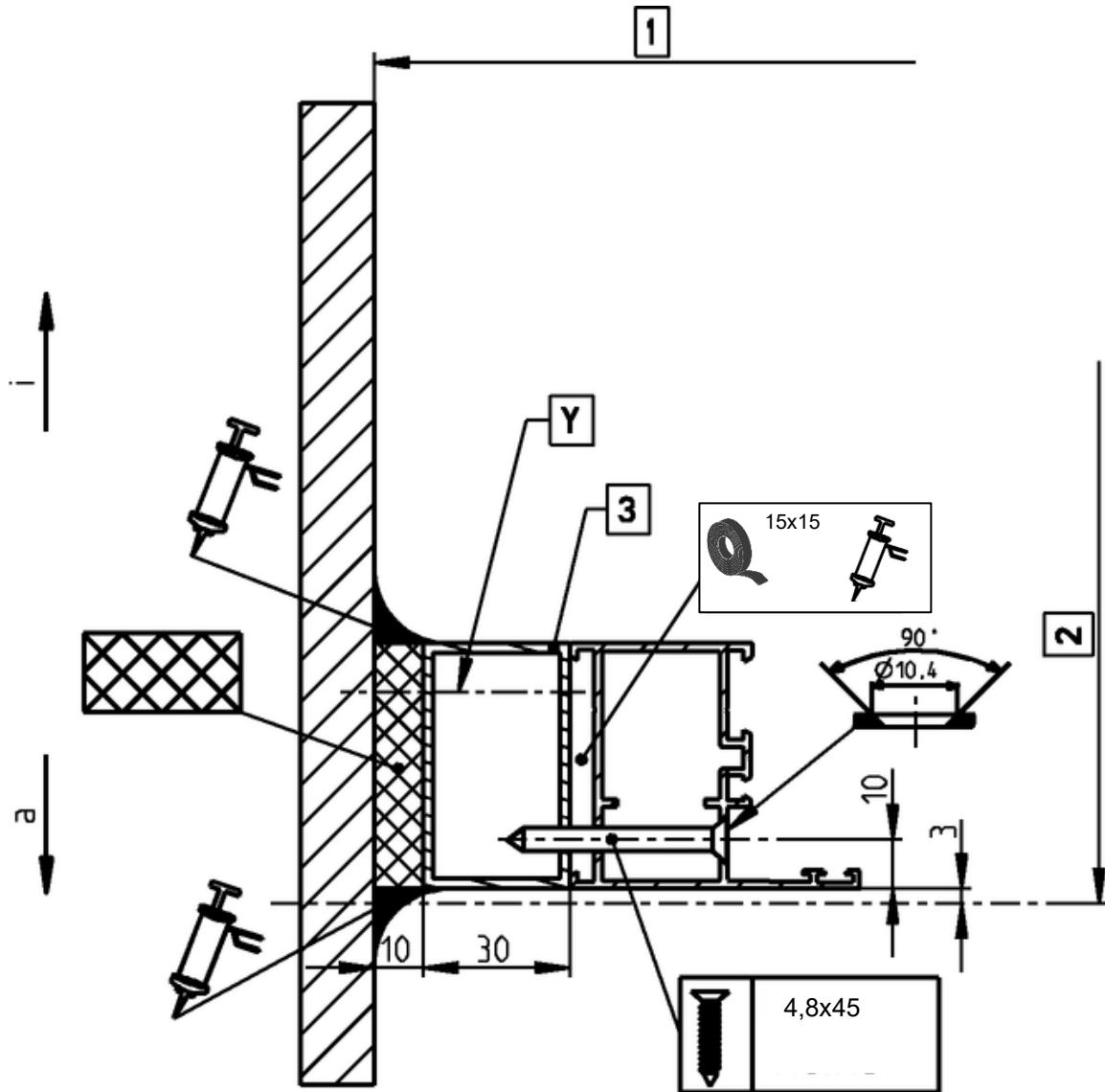


Illustration 12: Mounting on the wall

a	Outside
i	inside
Y	Gland site, fasteners must be determined by customer
1	depth Terrazza
2	width Terrazza
3	50x30 square tube for mounting on the wall

4.4.5 Fitting the Wind Load/Wind Pressure Bracket/Support to the Side Trapezoidal Element

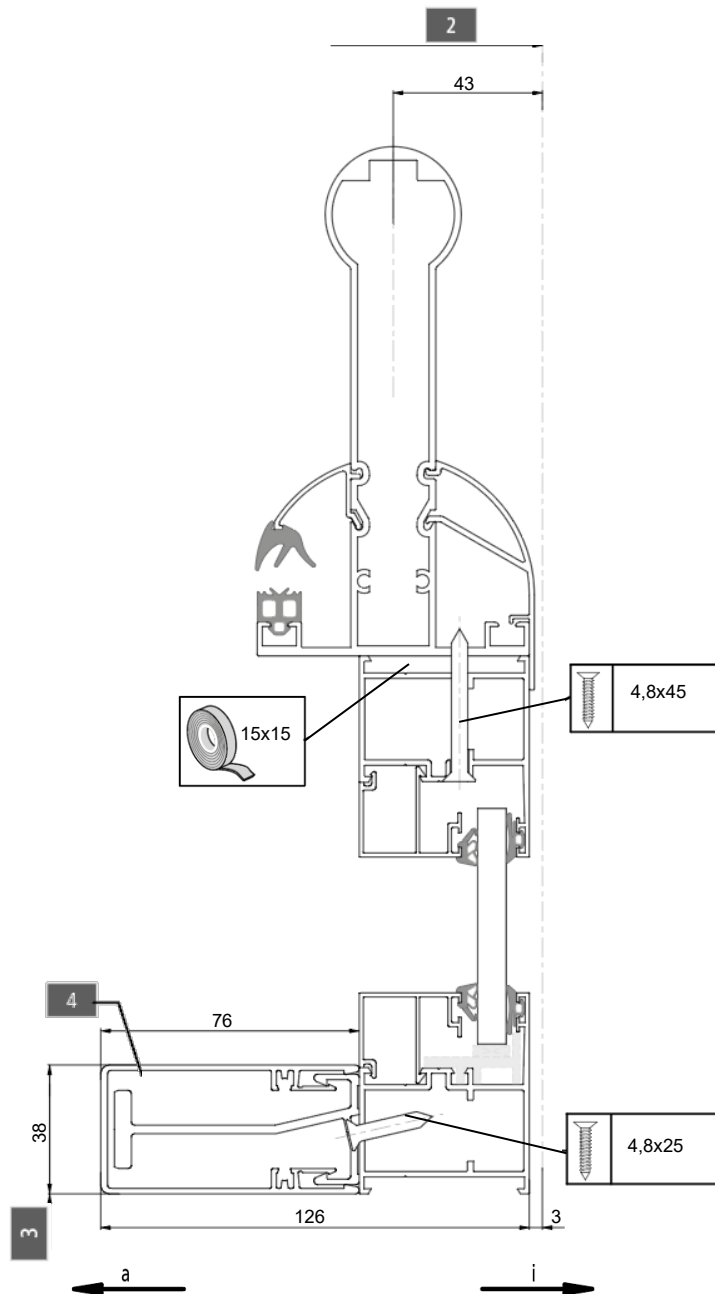


Illustration 13: Installation of wind load carrier

a	outside
i	inside
2	width Terrazza
3	50x30 square tube for mounting on the wall
4	Wind load carrier

- If a wind load/wind pressure bracket/support has been supplied, always ensure that it is fitted.
- Before fitting the wind load/wind pressure bracket/support, make sure that the glass panes and glass strips have been inserted into the side trapezoidal element.
- If not, problems may arise when inserting the glass strips into the side trapezoidal element.
- When fitting the glazing element provision at the gutter (see assembly instructions for the w26-c), the wind load bracket may well collide with the glazing element provision.
- If this is the case, cut the wind load/wind pressure bracket/support to length on-site.
- If a hopper transom is installed in the side trapezoidal element, it will not be possible to fit the wind load bracket on the inside. In this case, the wind load bracket will need to be fitted on the outside.

4.4.6 Assembling Sottezza Pure next to the lateral trapezium element

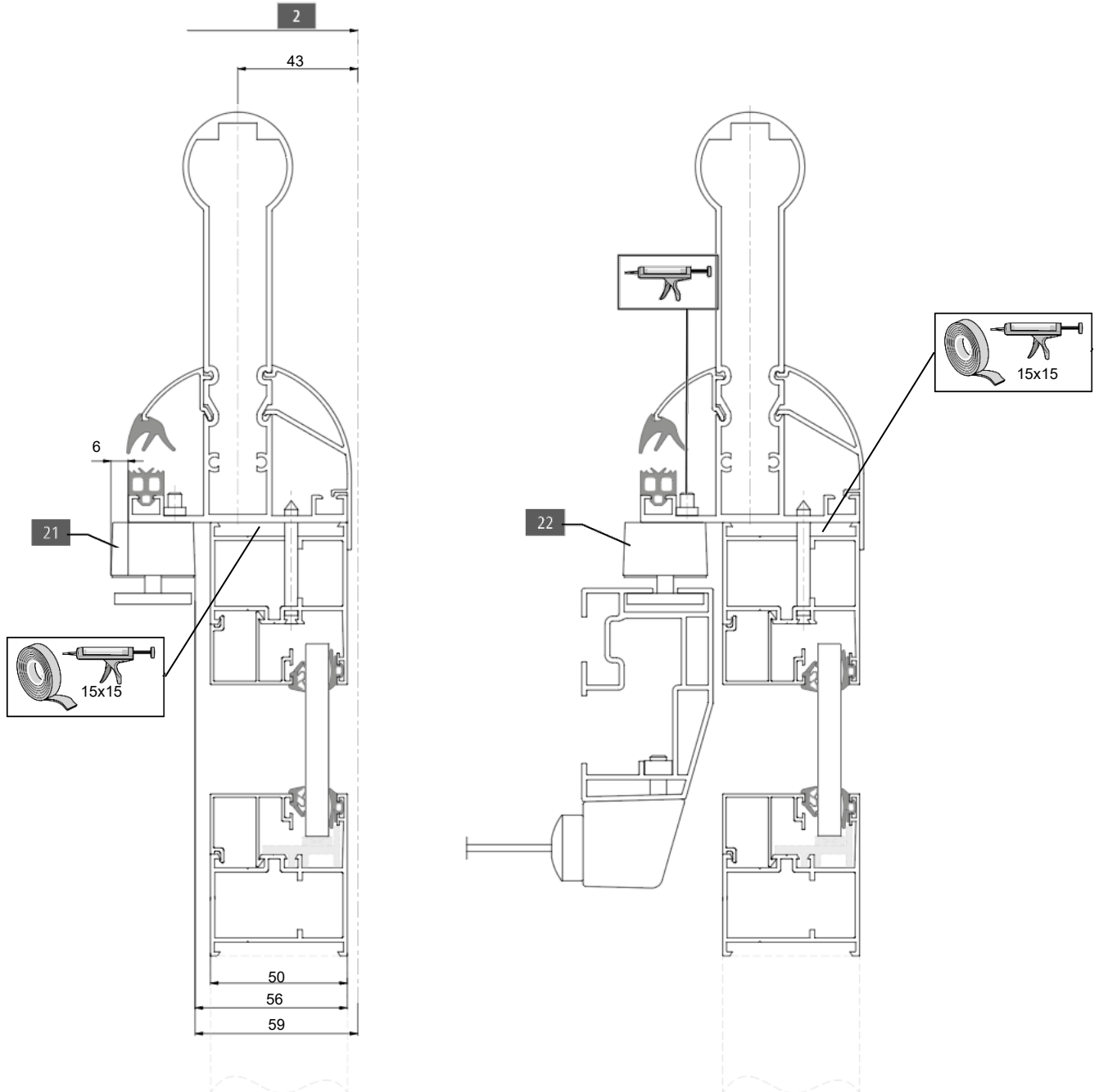


Illustration 14: Assembling Sottezza Pure next to the lateral trapezium element

2	width Terrazza
21	Headplate bracket
22	Holder Transport Profile

- Before fitting the Sottezza Pure, first fit the side trapezoidal element and also insert the glass panes and glass strips here. Please note that these cannot be fitted at a later date.
- The headplate bracket and side channel bracket must be mounted afterwards.
- The distance rope brackets are attached in the order indicated (for more details, refer to the Sottezza Pure assembly instructions) and finish by fitting the distance rope bracket cover (7) and screwing it in place with the distance rope cover nut (6).
- Everything else you need to know about assembling the Sottezza Pure can be found in the Sottezza Pure assembly instructions.

5 Inserting the Glass



Remove the glazing beads. Mark where which glazing bead is located. If the glazing beads are re-fitted later, they must be fitted exactly where they came from.

- For best installation results when fitting the panes, we recommend that you follow the glazing guidelines provided by your glazing supplier.
- Insert the glazing packers into the leaves accordingly.
- Then insert the glass panes.
- Fit the glazing beads. Each glazing bead must be fitted in the same location as it originally came from.
- To do this, turn the glazing beads towards the glass from the outside.
- First insert horizontal glazing beads 1 and 2, then vertical glazing beads 3 and 4. To do this, please follow the sequence outlined in figures.
- To remove the glazing beads on the inside, take a plastic wedge and apply some force between the glass pane and the glazing bead.
- Insert the wedge seal on the inside.
- Cut the corners of the wedge seal at an angle of 45° leaving a little more length than is required.
- Squeeze the wedge seal somewhat when inserting.
- If inserting the wedge proves difficult, moisten the seal with silicone spray or washing-up liquid. Please note that silicone spray should not be used on self-cleaning glass.

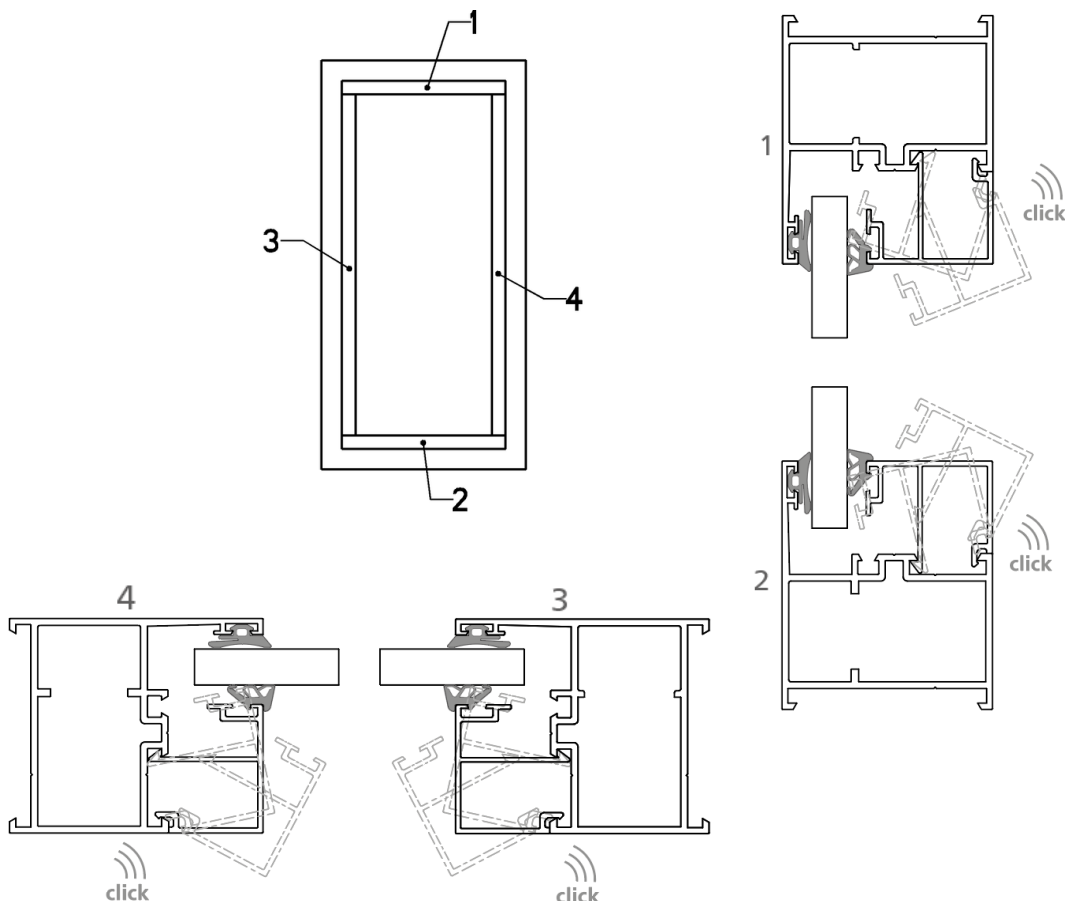


Illustration 15: Insertion of the glass strips with fixed glass

1, 2 horizontal glazing bars
3, 4 vertical glazing bars

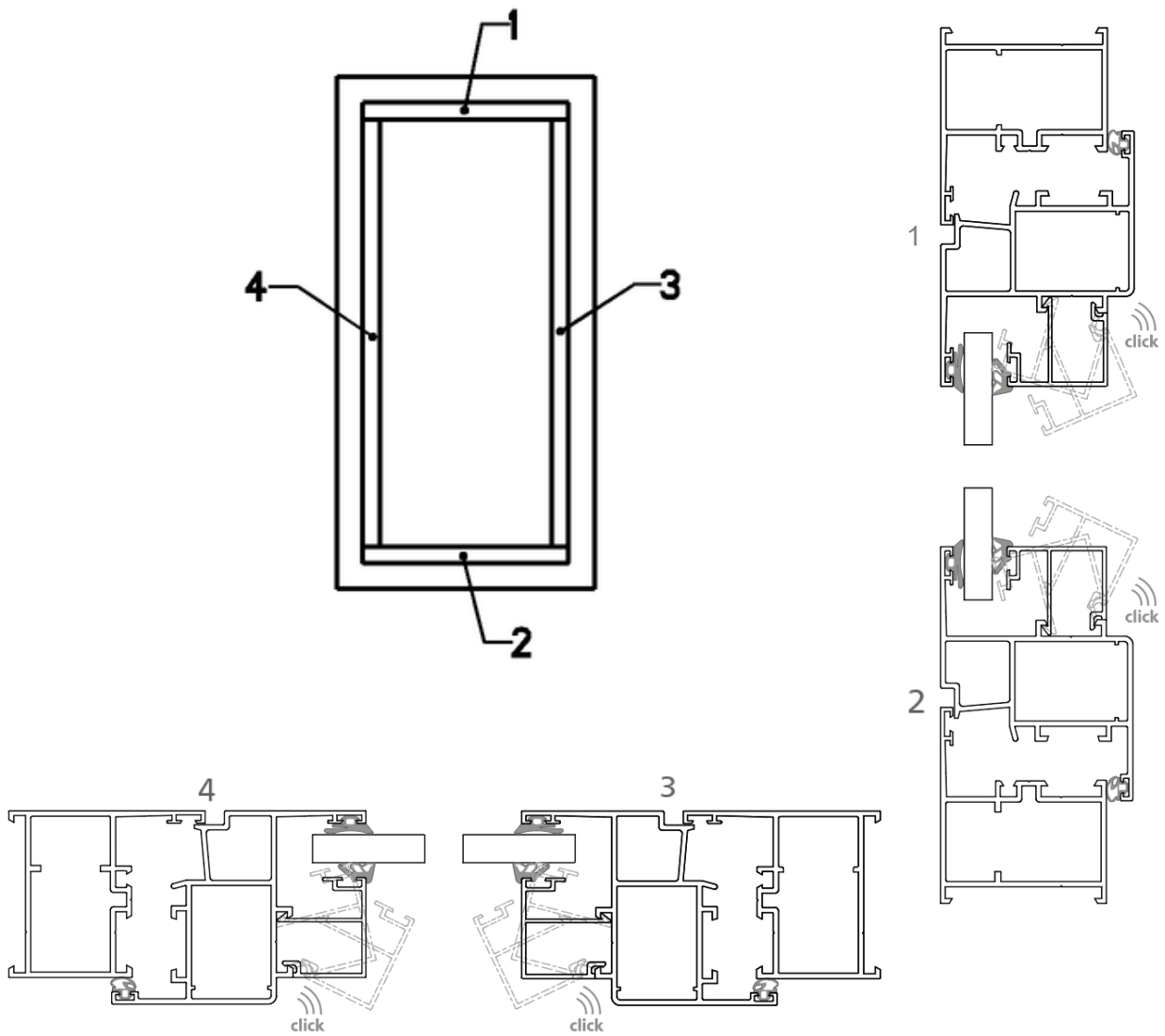
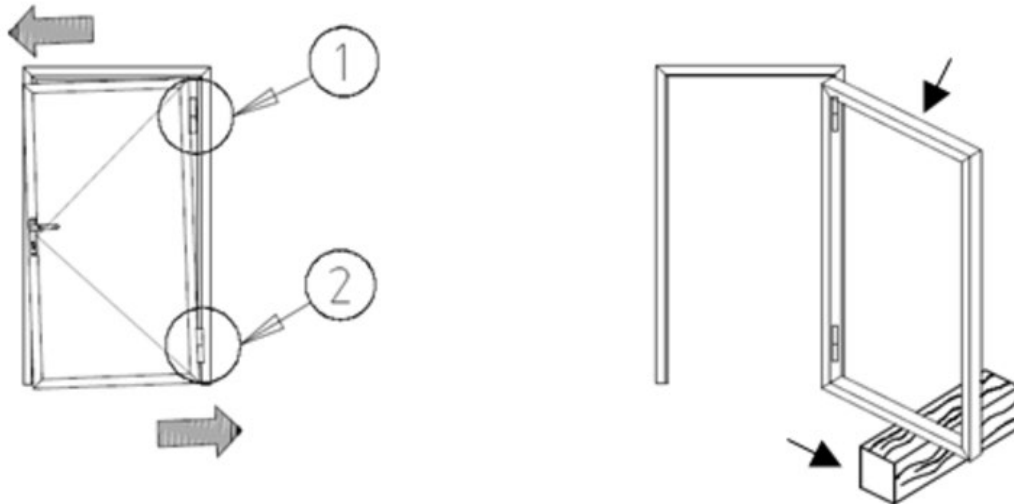


Illustration 16: Insertion of glazing bars on windows and doors

1, 2	horizontal glazing bars
3, 4	vertical glazing bars

6 Making adjustments

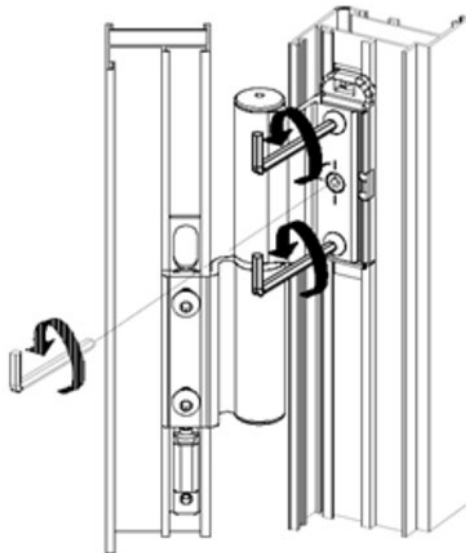
6.1 Adjusting and Servicing the Sliding Door Hinges on Windows and Doors



- In the majority of cases, the door will usually hang (see Figure) once the sliding door hinges have been fitted. The hanging door can be re-aligned by adjusting the top and bottom sliding door hinges.
- Before adjusting the hanging doors, open the door to be aligned and secure the door in place, by placing a block of wood underneath it, for example.

6.1.1 Horizontal Adjustment of the Sliding Door Hinges

- Before adjusting, loosen the fixing screws on the door leaf (see Figure) to allow you to slide the toothed plate.



- Now remove the reinforcing plate located on the top sliding door hinge (see Figure).
- Use an Allen key to move the sliding door hinge.
- The top sliding door hinge can be moved between -2.25 mm and -0.75 mm (see Figure).
- The bottom sliding door hinge can be moved between 0 and $+1.5$ mm.

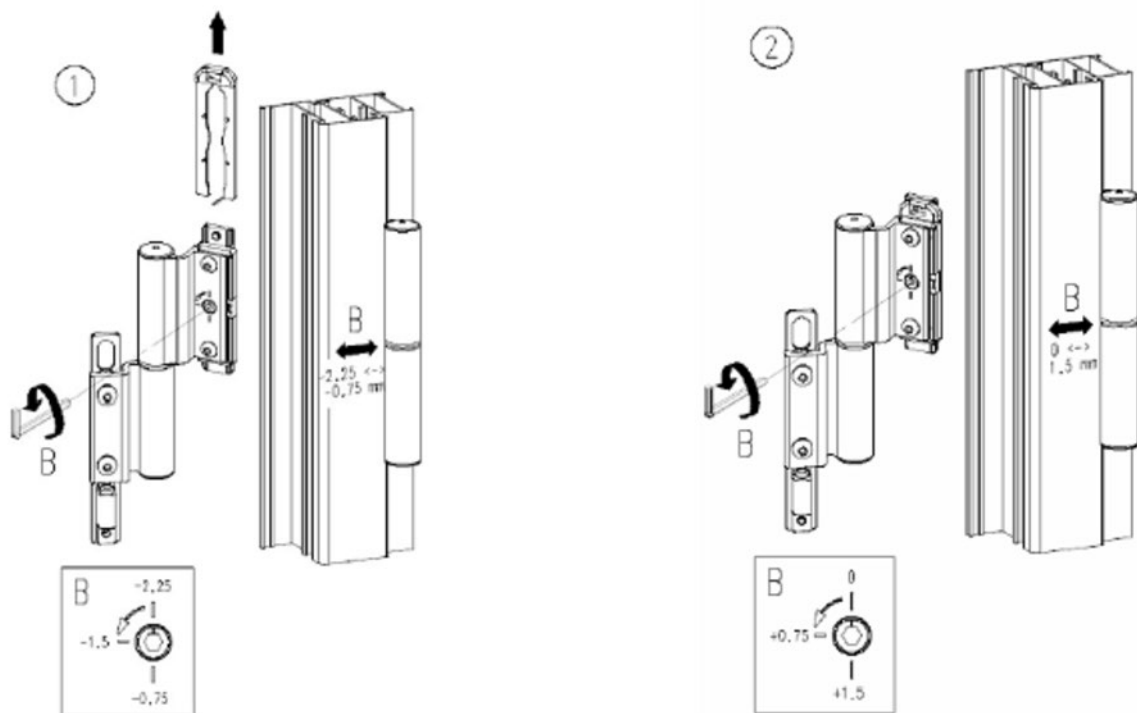
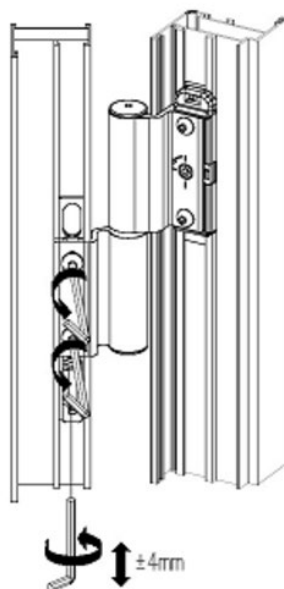


Illustration 17: Adjusting the top and bottom sliding door hinges

- | | |
|---|----------------------------|
| 1 | Sliding Door Hinges top |
| 2 | Sliding Door Hinges bottom |

6.1.2 Vertical Adjustment of the Sliding Door Hinge (height adjustment)

- Loosen the screws on the window frame
- Using an Allen key, you can now adjust the height of the leaves (see Figure).
- The leaves can be adjusted between $+4$ and -4 mm



6.1.3 Servicing the Sliding Door Hinges

- All vital-function hardware, the lock fixtures, the striker plates, the door openers and the door hinges must be checked at regular intervals.
- All adjustments made to hardware – especially hardware relating to the door hinges and the striker plates – and the replacement of parts as well as the removal and fitting of hinged access doors must be carried out by a specialist.
- Depending on the frequency of use and the ambient conditions, we recommend that you service the hardware at regular intervals in keeping with the following guidelines:
 - Check the quality of operation of all parts.
 - The door systems do not require greasing.
 - The lock and the cylinder lock have been sufficiently lubricated and do not require any further lubrication.
 - If necessary, remove all dust and other dirt on the hardware to ensure smooth operation of the system.
 - When cleaning the system, do not use water and/or cleaning agents under any circumstances as these may attack the anti-corrosion seal on the hardware.

7 Maintaining

Keep the sides, top and bottom of the frame and leaf sections clean to ensure that the windows and doors open and close properly. All seals must be completely dirt-free at all times.

Clean with a damp cloth if necessary. To ensure that rain and cleaning water drain off the doors properly, check the drain holes from time to time. Make sure they are not blocked by foreign bodies (dust, leaves or other foreign bodies that may have accumulated) as this will prevent the water draining off properly. The moving and locking mechanisms must be kept in perfect working order at all times. Check all moving parts and the tightness of the fastening screws at regular intervals (at least once a year).

If doors are installed before other construction work is completed, or if more extensive building work is to be carried out, ensure that all substructure element surfaces – and also the Terrazza surfaces if applicable – are fully protected to prevent any damage resulting from wet mortar, plaster or any other materials that might damage the aluminium parts.

8 General Notes on Cleaning

The finish on the aluminium sections, which are powder-coated, is of the highest quality and subjected to ongoing tests and checks during production. Despite this, we do recommend that you clean the surfaces from time to time (at least three times a year). To clean the aluminium parts, simply wash with water and a neutral cleaning agent. Do not use any alkaline or acidic products, scourers, organic solvents, or cleaning agents with an unknown chemical composition. The temperature of surfaces and cleaning agents must not exceed 20 °C during the washing process. Do not use steam sprays. Clean surfaces more frequently if they come into contact with salty or heavily polluted air.

9 Operation

9.1 Operating Swivel Windows and Hinged Doors

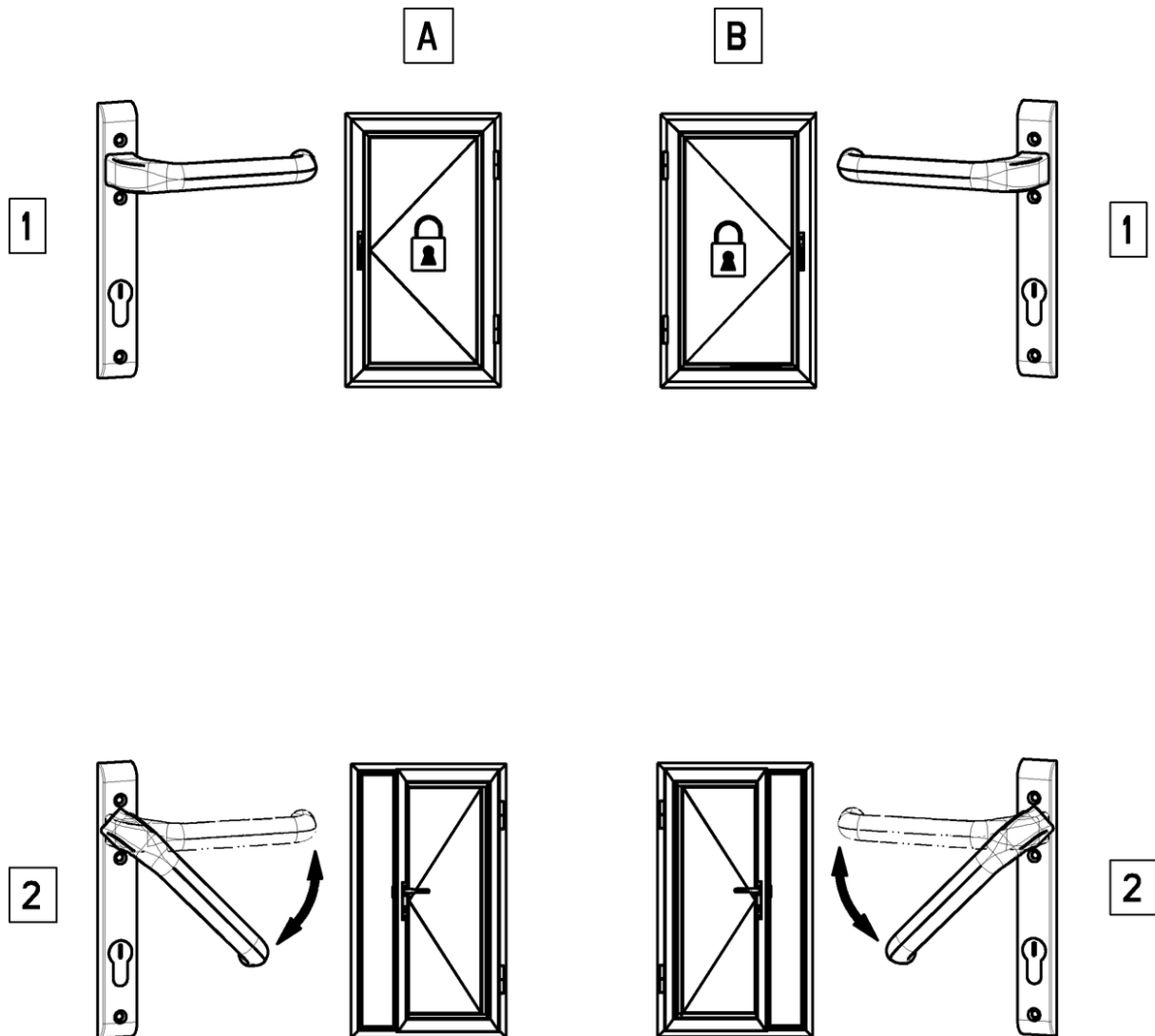


Illustration 18: Operation of three windows and three doors

- A handle on the left
- B handle on the right
- 1 closed position
- 2 rotational position

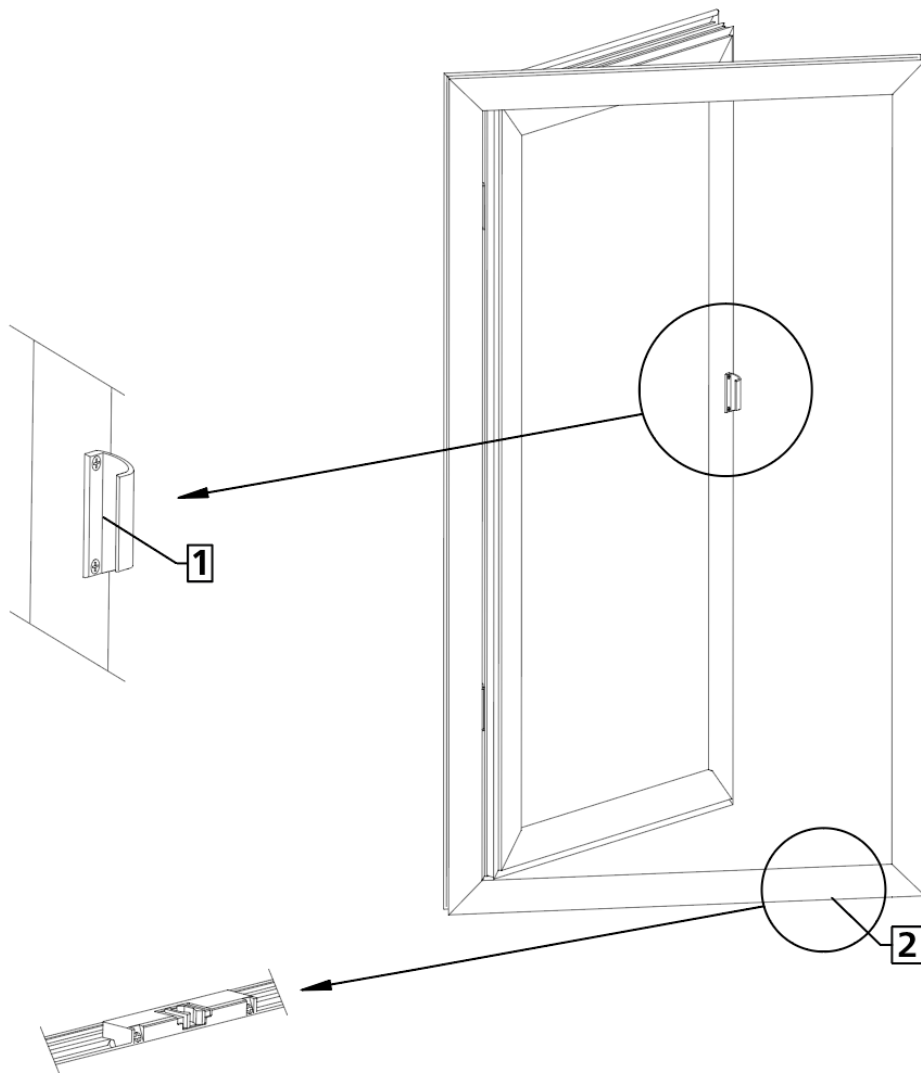


Illustration 19: Close the door by means of the puller handle

- | |
|---|
| <p>1 Pull handle; opening and closing by means of the puller handle only possible if the door handle is in the rotational position</p> <p>2 Position of the wing snappers</p> |
|---|

9.2 Operating Tilt-and-Turn Windows / Tilt-and-Turn Doors

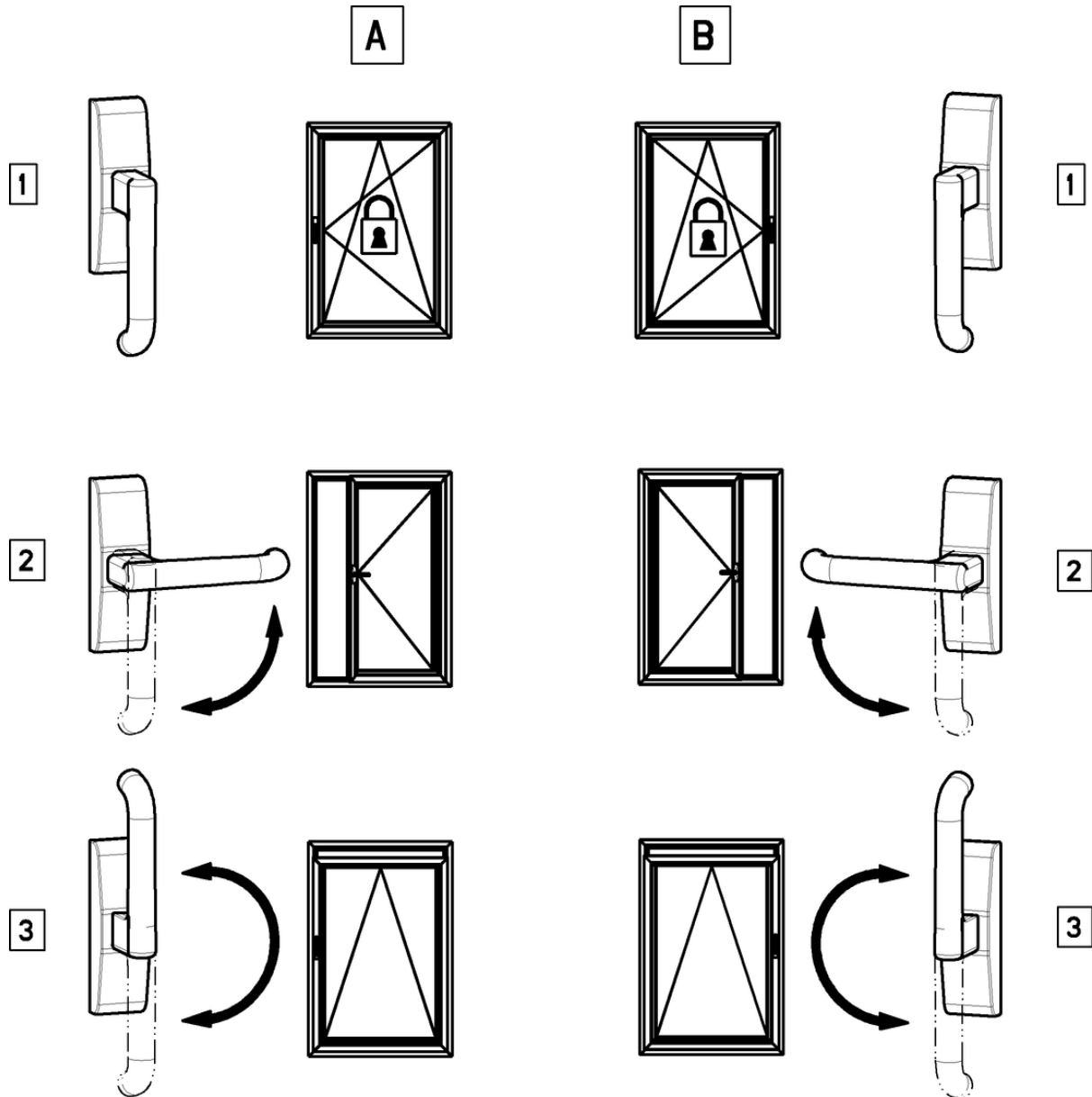


Illustration 20: Operation of tilt and turn windows / doors, tilt-

A	handle on the left
B	handle on the right
1	closed position
2	rotational position
3	tilt

10 Disposal

Although this product does not contain any materials which pose a risk or danger to individuals or the environment, the parts used in the folding partition must nevertheless be disposed of correctly and professionally.

EC Declaration of Conformity

We,

Weinor GmbH & Co. KG
Mathias-Brüggen-Straße 110
50829 Köln/Ossendorf (Germany)

hereby declare that, in terms of its design, construction and in the versions supplied on the market, the glazing elements listed below are in compliance with EN 14351-1:2006 "Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics." Any modification of the glazing elements not approved by us will result in this declaration becoming invalid.

Product description:	Glazing elements for use in residential and non-residential buildings
Glazing element types:	w50-c
Year built:	2013

Initial type testing in compliance with EN 14351-1:2006, Annex ZA, has been conducted by the following notified bodies:

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47814 Bellaria (RN), Italy

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Testcentrum voor
Gevelementen,
Sint-Pietersnieuwstraat 41,
9000 Gent, Belgium

SKG - Stichting Kwaliteit
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6700 AJ Wageningen,
Netherlands

Date / Manufacturer's Signature:



Cologne (Germany), 31.01.2013

p.p. Karl-Heinz Stawski

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