

Substructure Elements for WeiTop Vivienda

Important notes for dealers

Last updated: 21.01.2009
We reserve the right to make technical changes
Item no.: 111887-0000

Cover Sheet

weiner
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Item	Page
General Guidelines on Substructure Elements/Assembly	
• List of Tools	20.1.1
• Fixings / Explanation of Symbols	20.1.2
• Brief Information on Substructure Elements	20.1.3
• Sample Roofs	20.1.4
• General Notes on Assembly	20.1.5
• Notes on Adhesives and Sealants	20.1.8
• Reference to Documents from Fachverband Wohn-Wintergarten e.V.	20.1.9
• Corner Sections and Frame Wideners	20.1.10
• Accessories for Corner Sections and Frame Wideners	20.1.12
Cross-Sections	
• Cross-Section Vivienda Example 1	20.2.1
• Cross-Section Vivienda Example 2	20.2.2
• Cross-Section Vivienda Example 3	20.2.3
Connecting the System under the Front Support / (Vertical Cross-Section)	
Cross-Sections of Sample Roofs	
• Fixed Glazing w70-w	20.3.1
• Parallel Tilt-and-Slide Door (PTS) w70-w	20.3.2
• Folding Partition w60-w, folding inwards	20.3.3
Other Cross-Sections	
• Folding Partition w60-w, folding outwards	20.3.4
• Sliding Door w45-c	20.3.5
Connecting the System under the Side Roof Support / (Vertical Cross-Section)	
Cross-Sections of Sample Roofs	
• Fixed Glazing w70-w	20.4.1
• Window w70-w as a Door	20.4.2
• Folding Partition w60-w	20.4.3
• Lift-and-Slide Door w45-w	20.4.4
• Inside Wind Pressure Support/Bracket	20.4.5
Other Cross-Sections	
• Outside Wind Pressure Support/Bracket	20.4.6
Connecting the System to the Corner Post (Horizontal Cross-Section)	
Cross-Sections of Sample Roofs	
• Front: Fixed Glazing w70-w; Side: Fixed Glazing w70-w	20.5.1
• Front: Folding Partition w60-w; Side: Fixed Glazing w70-w and Lift-and-Slide Door w45-w	20.5.2
• Front: Folding Partition w60-w; Side: Folding Partition w60-w	20.5.3
Other Cross-Sections	
• Front: Sliding Door w45-w; Side: Fixed Glazing w70-w	20.5.4



Item	Page
Connecting the System to the Wall / (Horizontal Cross-Section)	
Cross-Sections of Sample Roofs	
• Window w70-w as a Door	20.6.1
• Folding Partition w60-w	20.6.2
• Lift-and-Slide Door w45-w	20.6.3
Connecting to the Ground / (Vertical Cross-Section)	
• Example of How to Connect to the Ground (Fachverband Wohn-Wintergarten e.V.)	20.7.1
Installation Aids/Accessories	
• Frame Section Coupling	20.8.1



List of Tools

Good tools are the key to ensuring productivity and that the quality of the assembly work is good. The following is a list of the minimum tools that we recommend you have available for fitting the substructure elements under "normal" building conditions.

Tool	Size	Use
Tools, machines		
Phillips screwdriver	2	To fit the substructure elements to the roof
Various tools	as required	Depending on the screws used on-site
Screws/rawlplugs/anchors	as required	To fit the substructure elements to the on-site connections
C clamp	at least 200 mm	To lock the substructure elements in position
Installation tools		
Glue/Sealant gun		To apply the adhesive and sealant
Glättfix		To apply the adhesive and sealant
Primer		To prepare the assembly base before applying the adhesive and sealant
Drill	as required	To fit the substructure elements to the on-site connections
Twist drill bit	4 x 75	To drill a core hole to affix the substructure elements
Twist drill bit	4 x 119	To drill a core hole to affix the substructure elements
Twist drill bit	5.5 x 139	To drill a clearance hole to affix the substructure elements
Twist drill bit	5.5 x 205	To drill a clearance hole to affix the substructure elements
Countersinker and deburrer	90° Ø 10.4	DIN 335 form C 90° Ø 10.4 mm; to countersink drilled holes in acc. with DIN 74
Rechargeable screwdriver		To affix the substructure elements
Cable reel	as required	
Steps	as required	
Measuring and testing tools		
Tape measure	20 m	For measuring, to align substructure elements
Telescopic measuring stick	5 m	For measuring, to align substructure elements
Folding ruler		For measuring, to align substructure elements
Spirit level	1 m	To align substructure elements
Hose level	20 m	To align substructure elements
Levels		e.g. rotating laser level, for measuring; to align substructure elements
Plumb-line	5 m	To align substructure elements
Cleaning agents		
Cleaning agents		For adhesives and sealants
Miscellaneous		
Touch-up pens		For touch-up work
Pencils		
Permanent marker pen		
Calculator		
Digital camera		Photos of assembly
Protective clothing		
Safety shoes/Protective gloves		To protect against sharp edges on sections, components and glass


20.1.1



Fixings/Explanation of Symbols

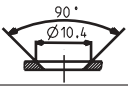





The following fixings are used to fit the substructure elements to the WeiTop Vivienda:

1) Standardised Parts

Symbol	Standardised Part	Ø Core hole	Ø Clearance hole	Tool	Size
V	Countersunk self-tapping screw DIN7982-4.8x25	4	5.5	Philips screwdriver	2
W	Countersunk self-tapping screw DIN7982-4.8x45	4	5.5	Philips screwdriver	2
X	Countersunk self-tapping screw DIN7982-4.8x60	4	5.5	Philips screwdriver	2
	Screws and tools must be selected on-site to match the building conditions	–	–	On-site	On-site

All standardised parts made of stainless steel

2) Sealing / Insulation / Miscellaneous

Symbol	Explanation of Symbols	Comments
	Countersink drilled hole	Holes must be drilled and countersunk on-site
	Seal here (inside/diffusion-tight)	The sealant chosen must be compatible with the powder coating. See section entitled "Notes on Sealants and Adhesives"
	Line and seal	The sealant chosen must be compatible with the powder coating. See section entitled "Notes on Sealants and Adhesives"
	Pre-compressed sealing tape	Uncompressed (unkomprimiert), 15 mm wide, 15 mm thick Uncompressed (unkomprimiert), 20 mm wide, 20 mm thick Uncompressed (unkomprimiert), 20 mm wide, 20 mm thick
	Rain water drainage	
	Floor or wall	

3) Suppliers of Fixings

Some of the fixings used to erect the substructure elements can be ordered from weinor. All those not available through weinor must be ordered from other suppliers. Below is a list of possible suppliers:

Material	Available from weinor	Alternative Supplier	Contact
Screws			
Standardised parts	Yes, but only the screws listed above	Local hardware store	
Jointing compound			
Elch Pro – Kleben und Dichten	Yes	Hülden GmbH & Co. KG	www.huelden.de
Take Seal	Yes	Fix-Tec	www.fix-tec.de
Pre-compressed sealing tape	No	Adolf Würth GmbH & Co. KG	www.wuerth.de
EX-trem plus 5000 all-round building sealing and caulking	No	KONTEX Bausysteme GmbH	www.kontex-bausysteme.de
Miscellaneous			
Glazing packers and support blocks	No	FOPPE Direkt Versand GmbH	www.metallbaubedarf.com

20.1.2

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Brief Information on Substructure Elements

Your Vivienda can be equipped with the following substructure elements:

Fixed glazing	w70-w	<p>General Information</p> <ul style="list-style-type: none"> • Aluminium structure comprising thermally insulated sections • Installation depth of frame: 70 mm • Square frame sections and glazing beads • Glass thicknesses: 24 mm, 28 mm
Window/Door	w70-w	<p>General Information</p> <ul style="list-style-type: none"> • Aluminium structure comprising thermally insulated sections • Installation depth of frame: 70 mm • Installation depth of leaves: 78 mm • Opens inwards; doors also open outwards • Square frame sections and glazing beads; leaf sections round on outside • Glass thicknesses: 24 mm, 28 mm
Parallel tilt-and-slide-door (PTS)	w70-w	<p>General Information</p> <ul style="list-style-type: none"> • Aluminium structure comprising thermally insulated sections • Installation depth of frame: 70 mm • Installation depth of leaves: 78 mm • Opens inwards • Option of opening to left or right • Square frame sections and glazing beads; leaf sections round on outside • Glass thicknesses: 24 mm, 28 mm
Folding partition	w60-w	<p>General Information</p> <ul style="list-style-type: none"> • Aluminium structure comprising thermally insulated sections • Installation depth of frame at top / bottom: 70 mm; side: 60 mm • Installation depth of leaves: 60 mm • Hanging design • Opens inwards or outwards • Glass thicknesses: 24 mm, 28 mm
Sliding door Lift-and-slide door	w45-w	<p>General Information</p> <ul style="list-style-type: none"> • Aluminium structure comprising thermally insulated sections • Installation depth of frame: 89 mm • Installation depth of leaves: 45 mm • Twin-track guide sections • Two- or four-part sliding panels • Option of opening to left or right • Square frame sections and glazing beads • Glass thicknesses: 24 mm, 28 mm

Please refer to our price list for more detailed information on substructure elements.

20.1.3

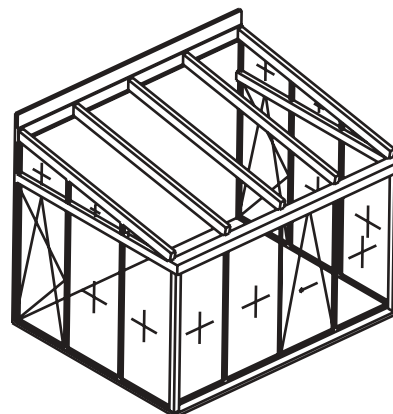


Sample Roofs

All references to sides are as seen from the outside

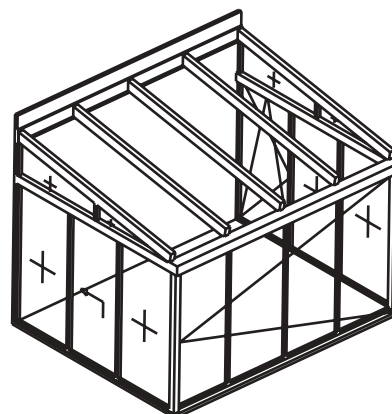
Vivienda Example 1

Side: left	fixed glazing	w70-w
	window as door (balcony door)	w70-w
Side: right	fixed glazing	w70-w
	window as door (balcony door)	w70-w
Front:	fixed glazing	w70-w
	parallel tilt-and-slide door	w70-w
Trapezium:	fixed glazing	w70-w



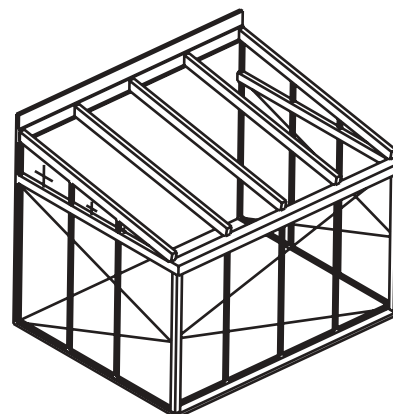
Vivienda Example 2

Side: left	lift-and-slide door	w45-w
	fixed glazing	w70-w
Side: right	window as door	w70-w
	fixed glazing	w70-w
Front:	folding partition	w60-w
Trapezium:	fixed glazing	w70-w



Vivienda Example 3

Side: left	folding partition	w60-w
Side: right	folding partition	w60-w
Front:	folding partition	w60-w
Trapezium:	fixed glazing	w70-w



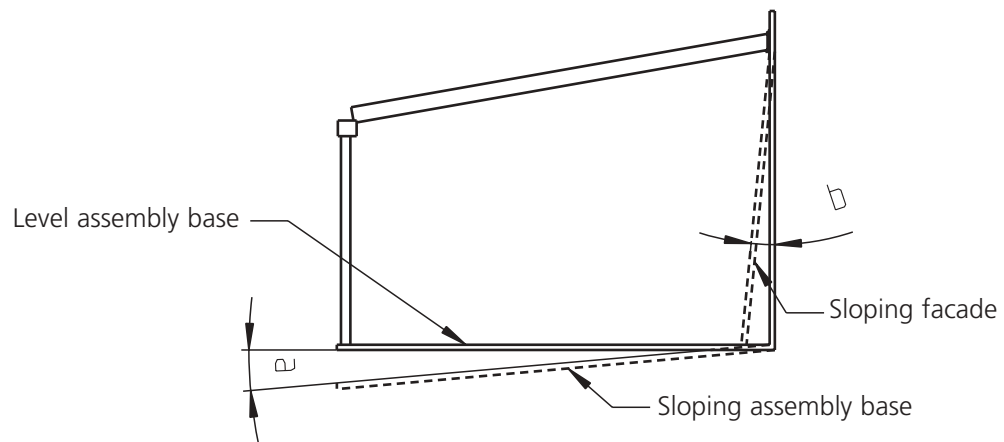
Other configurations available on request.

20.1.4



1) On-Site Building Conditions

- Before and while installing, it is vital that the on-site building conditions are taken into account.
- In particular, any unevenness or slopes on the assembly base or the facade must be taken into account.



If the substructure elements are on a sloping assembly base or sloping facade, frame wideners or glazing packers, for example, will need to be inserted to level out the slope or unevenness.

2) Installation

- Fit the Vivienda first and then the substructure elements.
- The substructure elements are fitted as follows:
 - Affix the frame wideners and corner sections to the WeiTop Vivienda, and also to the substructure elements where necessary.
 - We recommend that you fit the substructure elements in the following order:
 - Fit the trapezium
 - Fit the elements below the trapezium
 - Fit the front element
 - Position the frame for the substructure elements under the Vivienda.
 - The top and bottom frames must be plumb to each other.
 - Compensate for any unevenness or slopes in the assembly base by inserting support blocks to ensure that the frame is horizontal.
 - When doing so, ensure that you take into account the dimensions of the top of the floor to the bottom of the front support as well as the top of the floor to the bottom of the wall connection.
 - Make sure that the frame is properly set before affixing the frame to the Vivienda, masonry or an assembly base in accordance with the cross-sections shown.

3) Other Important Points

- Use of wind load/wind pressure support/bracket
- For depths of 3 m and higher, it will be necessary to fit wind load/wind pressure supports/brackets to the side elements.
- The wind load/wind pressure support/bracket is fitted to the bottom frame on the trapezium and may not be omitted.
- The use of wind load/wind pressure supports/brackets depends on the size of the roof, the on-site conditions, and especially the wind load. The site manager will need to determine during the planning phase whether such supports/brackets will need to be used.



4) Determining the Size of the Substructure Elements

- The following needs to be taken into account when determining the size of the substructure elements:
 - Basic dimensions of the roof
 - Depth
 - Width
 - Top of floor to bottom of front support
 - Top of floor to bottom of wall connection
 - Top of floor to bottom of base concrete (for spreader bar)
 - The position of the posts
 - The use of frame wideners and corner sections
 - Any unevenness and/or slopes on the on-site connections (house wall, ground)
- Please note the following general points
 - A 90° corner section is located at each outside corner under the front support (applies to pent roof).
 - On substructure elements that open (e.g. balcony door), the bottom frame section can either be inserted into the floor or fitted onto the floor. Varying element heights will occur as a result.
- The following is of importance for the side elements:
 - A 40 mm frame widener is always used when fitting side elements to a wall.
 - As a rule, 5 mm of play should be planned for on each side of the side substructure elements. This play is required to facilitate the fitting of the substructure elements. The resulting gap between the substructure elements and the frame wideners and/or the corner section can be covered using the stop (outside) and the cover plate (inside).
- The following is of importance for the front elements:
 - When fitting the front elements, allow for 5 mm of play on each side (refers to width).
 - The play between the front elements can be covered using the stop (outside) and the cover plate (inside).



General Notes on Assembly

5) Quantity of Fixings Required (from top of floor)

- The following table summarises the approximate number of standardised parts, sealants, etc. required for a roof with the following dimensions:

Width:	4000 mm
Depth:	3000 mm
Bottom of front support:	2100 mm
Bottom of wall connection:	2600 mm

Fixings	Unit of measurement	Vivienda example 1	Vivienda example 2	Vivienda example 3
Countersunk self-tapping screw DIN7982-4.8x25-A2	Piece/approx.	20	20	20
Countersunk self-tapping screw DIN7982-4.8x45-A2	Piece/approx.	70	70	80
Countersunk self-tapping screw DIN7982-4.8x60-A2	Piece/approx.	80	50	40
Pre-compressed sealing tape, 10 mm wide, 10 mm thick, uncompressed	Metre/approx.	5	10	10
Pre-compressed sealing tape, 15 mm wide, 10 mm thick, uncompressed	Metre/approx.	15	15	20
Pre-compressed sealing tape, 20 mm wide, 20 mm thick, uncompressed	Metre/approx.	45	35	30
Pre-compressed sealing tape, 30 mm wide, 30 mm thick, uncompressed	Metre/approx.	15	15	15

The quantity of all other fixings used is decided on-site.

- All details relating to tools and fixings only concern the fitting of substructure elements to the roof.
- Fixings needed to fit the substructure elements to the wall or the assembly base must be selected in accordance with the on-site building conditions and the statics requirements.
- When fitting the substructure elements, always ensure that there are no leaks in the roof and that thermal separation is guaranteed.

20.1.7



Important Notes on Adhesives and Sealants

- Always ensure that you select a jointing compound which is suitable for the surface texture of the powder-coated parts of the substructure elements and roof.
We recommend the following:
 - For standard RAL colours: "Elch Pro – Kleben und Dichten", from the Henkel company
 - For structural colours: "Take Seal" sealant from the Fix-Tec company
- If using alternative jointing compounds, always check on-site whether these are suitable. Contact the jointing compound manufacturer if in doubt.
- Pilkington (self-cleaning) glass is unsuitable for use with conventional jointing compounds. A silicone-free adhesive and sealant should be used instead. Please also ensure that you follow the installation guidelines provided by the Pilkington company.
- Use a suitable adhesive and sealant when carrying out sealing and gluing work on the on-site connections.
- To ensure ideal adhesion of the adhesive and sealant, please follow the following guidelines:
 - The parts/areas to be glued must be cleaned/primed prior to gluing.
 - The gluing/sealing work should only be performed at reasonable temperatures.
In this respect, always follow the manufacturer's guidelines for adhesives and sealants.

Failure to observe these recommendations may lead to leaks appearing between the substructure elements and the roof! There is also a danger that the glued parts will not have the right amount of adhesion.

Notes on Sealing and Insulation

- To ensure that the substructure elements you are using on the WeiTop Vivienda are sealed properly, please observe the following instructions:
 - When fitting the substructure elements, always be sure not to create any thermal bridges.
Fit the substructure elements so that the thermal separation of the substructure elements and the roof is on a level.
 - When fitting the substructure elements, all seals required on the roof, the masonry and the foundations are to be performed on-site in such a way that no water can penetrate the interior. The water drainage must therefore be mounted on the outside. The seals must always be on the inside and diffusion-tight.

Other sealing notes can be found in the relevant documents published by the Fachverband Wohnwin-tergarten e.V. (see page 20.1.8).



References to Documents from the Fachverband Wohn-Wintergarten e.V

- When planning and fitting your substructure elements, we recommend that you follow the guidelines in the following document published by the Fachverband Wohn-Wintergarten e.V.: "Heat and moisture-protection planning and construction of on-site building connections for conservatories".
- For further information on the Fachverband Wohn-Wintergarten, please go to www.wintergarten-verband.de.
- The pages to which these instructions refer in the document published by the Fachverband and/or which contain content taken from the document have been marked with the logo of the Fachverband Wohn-Wintergarten e.V.

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Wintergarten e.V.



- The following points provide a short summary of the contents of the document published by the Fachverband Wohn-Wintergarten e.V.:
 - General requirements for planning residential conservatories
 - Building physics of planning the building connections
 - Dew point and mould/mildew criteria
 - Isotherms
 - Significance of isotherms for building connections
 - Thermal bridge
 - Sample constructions for building connections
 - Building connections: detailed drawings and isotherms



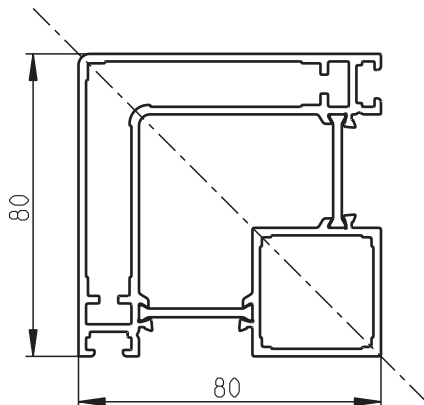
Corner Sections and Frame Wideners

General Notes:

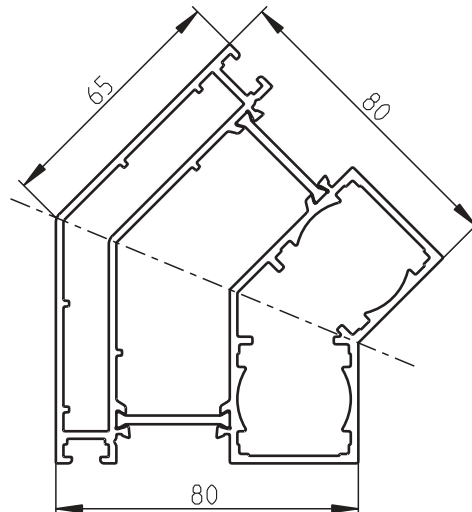
- Corner sections and frame wideners are available for the Vivienda. These simplify the installation work and the design of the size of the substructure elements. The sections are thermally separated.
- All sections are fitted on the outside with a groove to accommodate a stop.

Corner sections:

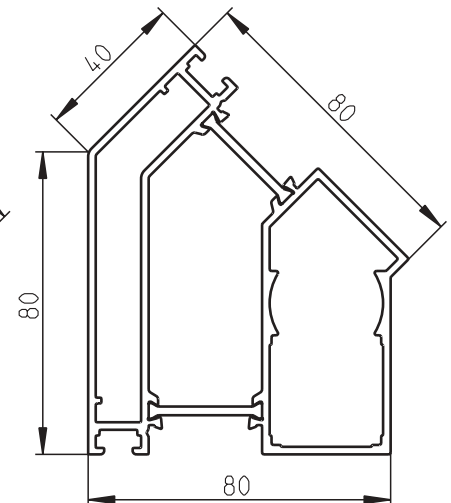
- Corner sections are available for 90° and 135° corners.



Corner section 90°
Usually used on, e.g.:
– Type A (pent roof)
– Head element Type I
– Head element Type N



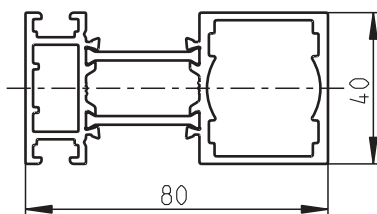
Corner section 135°,
symmetrical
Usually used on:
– Head element Type G



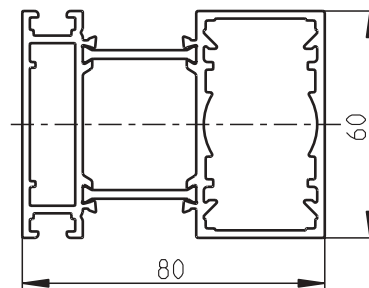
Corner section 135°,
asymmetrical; available as an
optional extra on e.g.:
– Head element Type B

Frame Wideners:

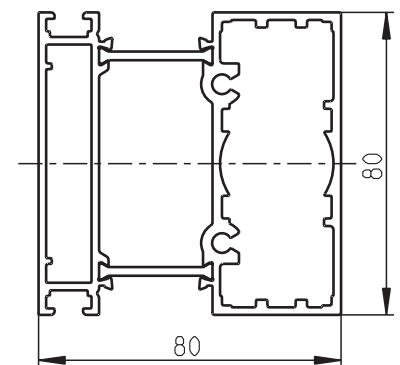
- Frame wideners are available in widths of 40, 60 and 80 mm.



Frame widener 40 mm
Usually used to:
– fit substructure elements
to a rear wall on Type A
(pent roof)
This means that there is no
need to cope the substructure
elements in the vicinity
of the wall connection.



Frame widener 60 mm
Usually used to:
– fit substructure elements
behind a middle post



Frame widener 80 mm
Usually used to:
– fit substructure elements
behind a post located next
to a side wall
– fit the substructure
elements to the rear wall
on Type G and Type I head
elements



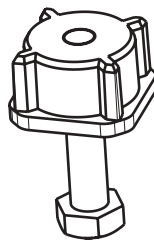
Corner Sections and Frame Wideners

Form of Delivery:

- All corner sections and frame wideners are supplied with an adjustable support bracket and screws to affix them to any posts that may be protruding.
- The corner sections and frame wideners are supplied in the same colour as the roof if ordered at the same time and the length of the sections is at least the length required.
- The standard length of the sections is 2.6 m.

Support Bracket:

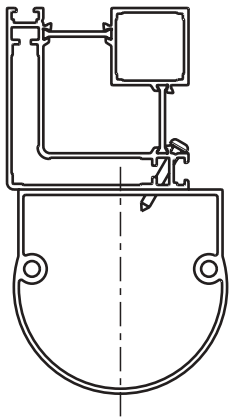
- The adjustable support bracket is used to compensate for differences in height between the top of the floor and the bottom of the front support. As a result, the frame wideners and corner sections can be positioned and set in such a way that they abut against the bottom of the front support.
- The support brackets can only be used if the corner sections and frame wideners are sawn 12 mm shorter than the clearance length.
- The support brackets can be adjusted within a range of approx. 25 mm.
- The support brackets are not designed for heavier loads.



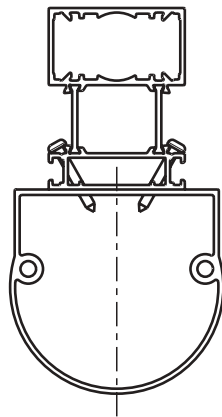
Support bracket

Screw Fittings on Post:

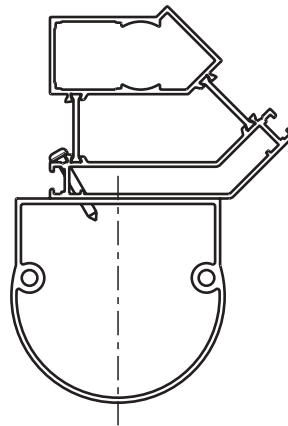
- Examples:



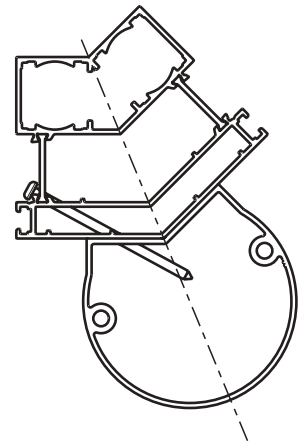
Type A or I,
Post on outside



Post in middle



Type B
Post on outside



Type G
Post in 135° corner



General Notes:

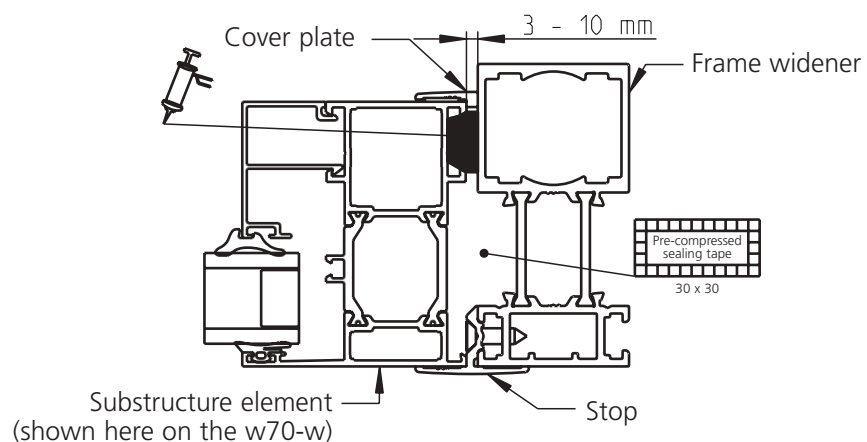
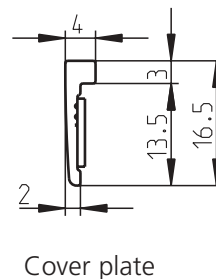
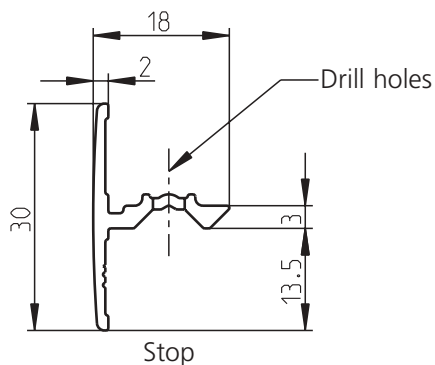
- A variety of accessories are available for the corner sections and frame wideners. These accessories can be ordered separately, but some can also be ordered to match the roof and substructure elements.
- The area between the substructure elements and the corner sections or frame wideners must always be sealed, caulked and insulated on-site.

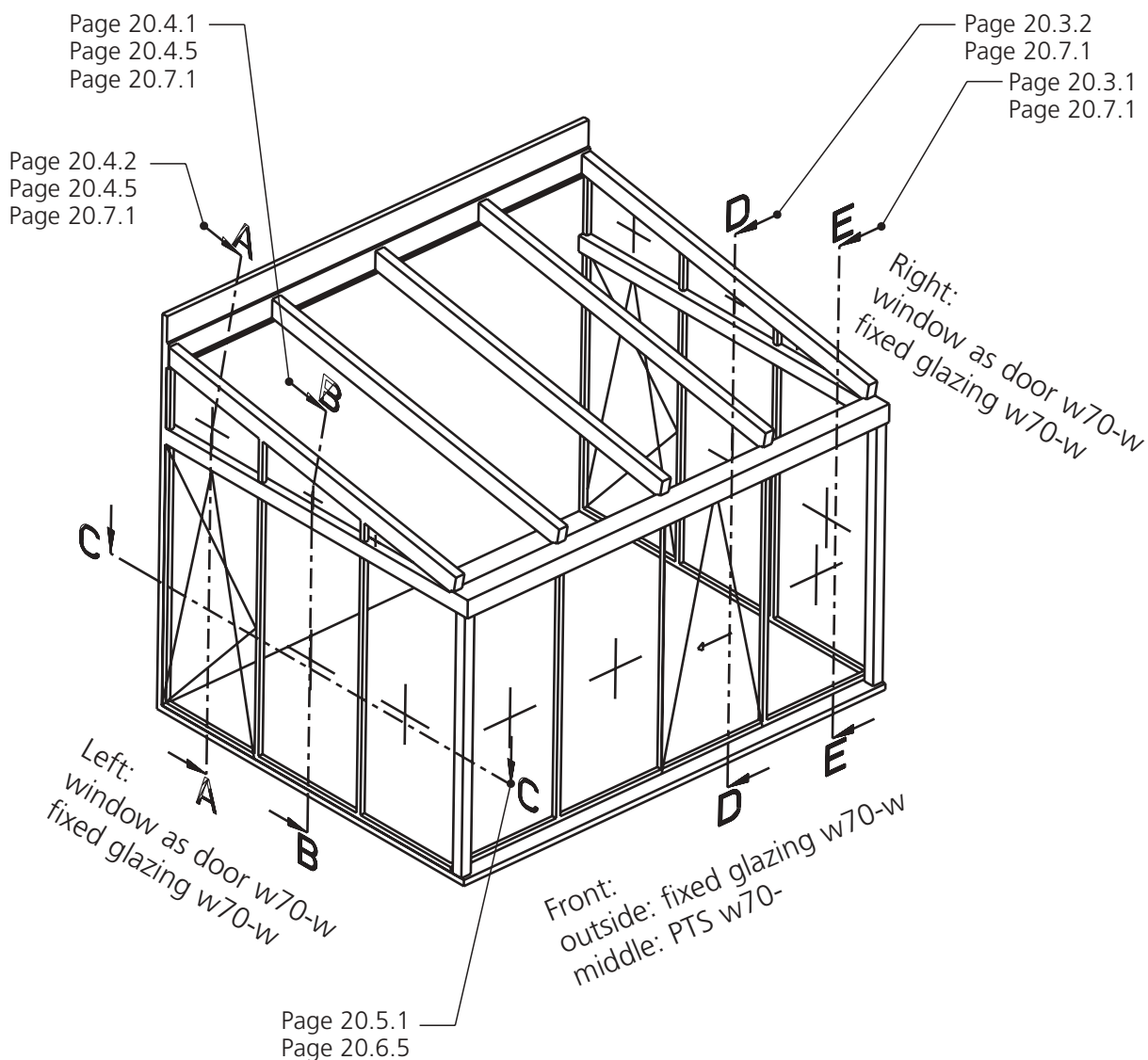
Stop:

- The stop can be used to position the substructure elements. It can also be used in conjunction with a cover plate to compensate for any play in the substructure elements.
- When using the stop, always ensure that the substructure elements are at least 3 mm smaller than the opening.
- The stop can be screwed to any corner section or frame widener provided that this area is not located behind a post.
- The stop is supplied with ready-drilled holes and screws to affix it to the corner sections and frame wideners.

Cover Plate:

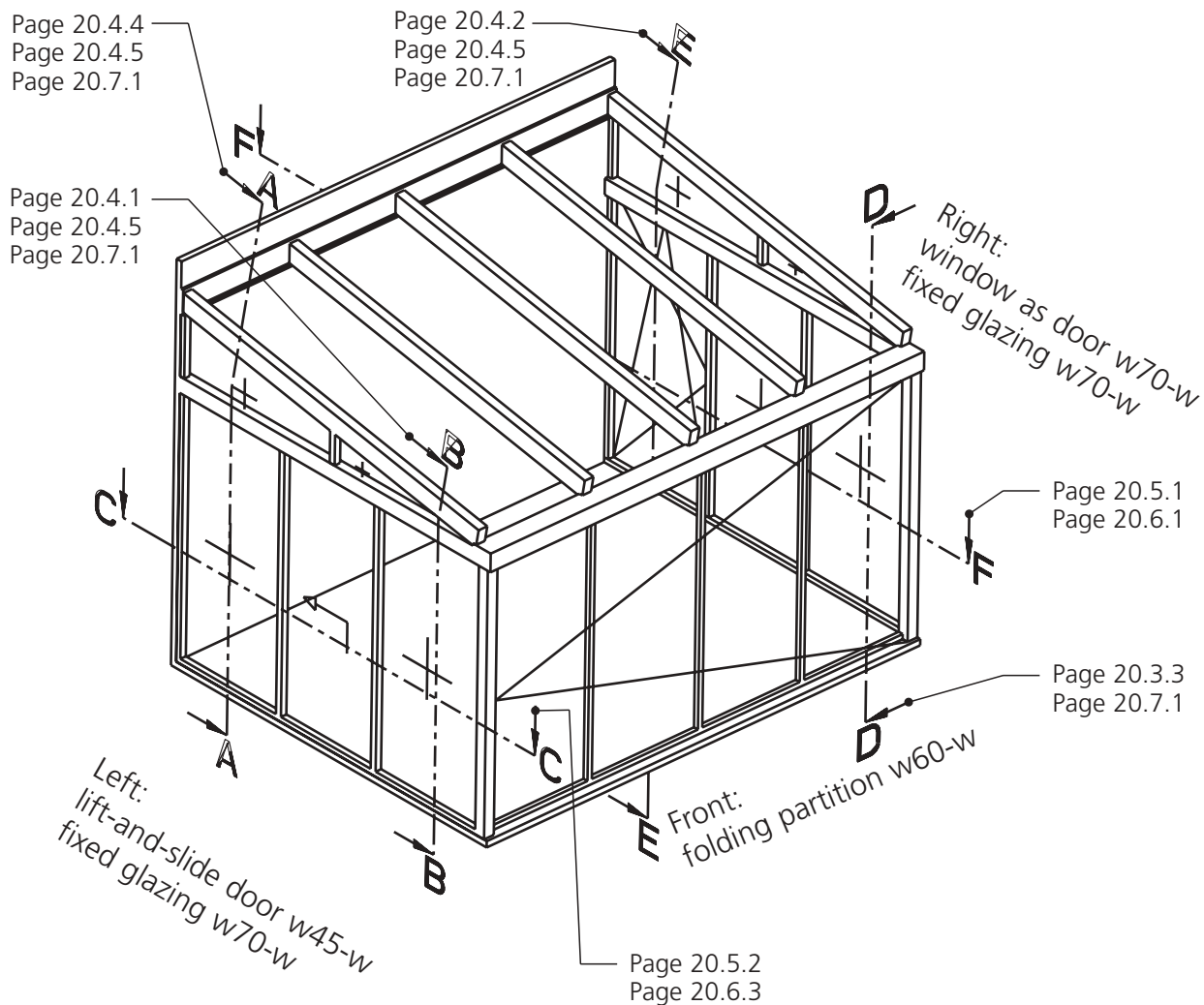
- The cover plate can be used to cover a gap between the corner sections/frame wideners and the substructure elements. The gap must be in a range of 3 mm to 10 mm.
- When using the cover plate, always ensure that the substructure elements are at least 3 mm smaller than the opening.
- The cover plate is supplied with self-adhesive tape which is used to attach the cover plate to the substructure elements.
- The substructure elements must be affixed to the corner sections and frame wideners with screws.





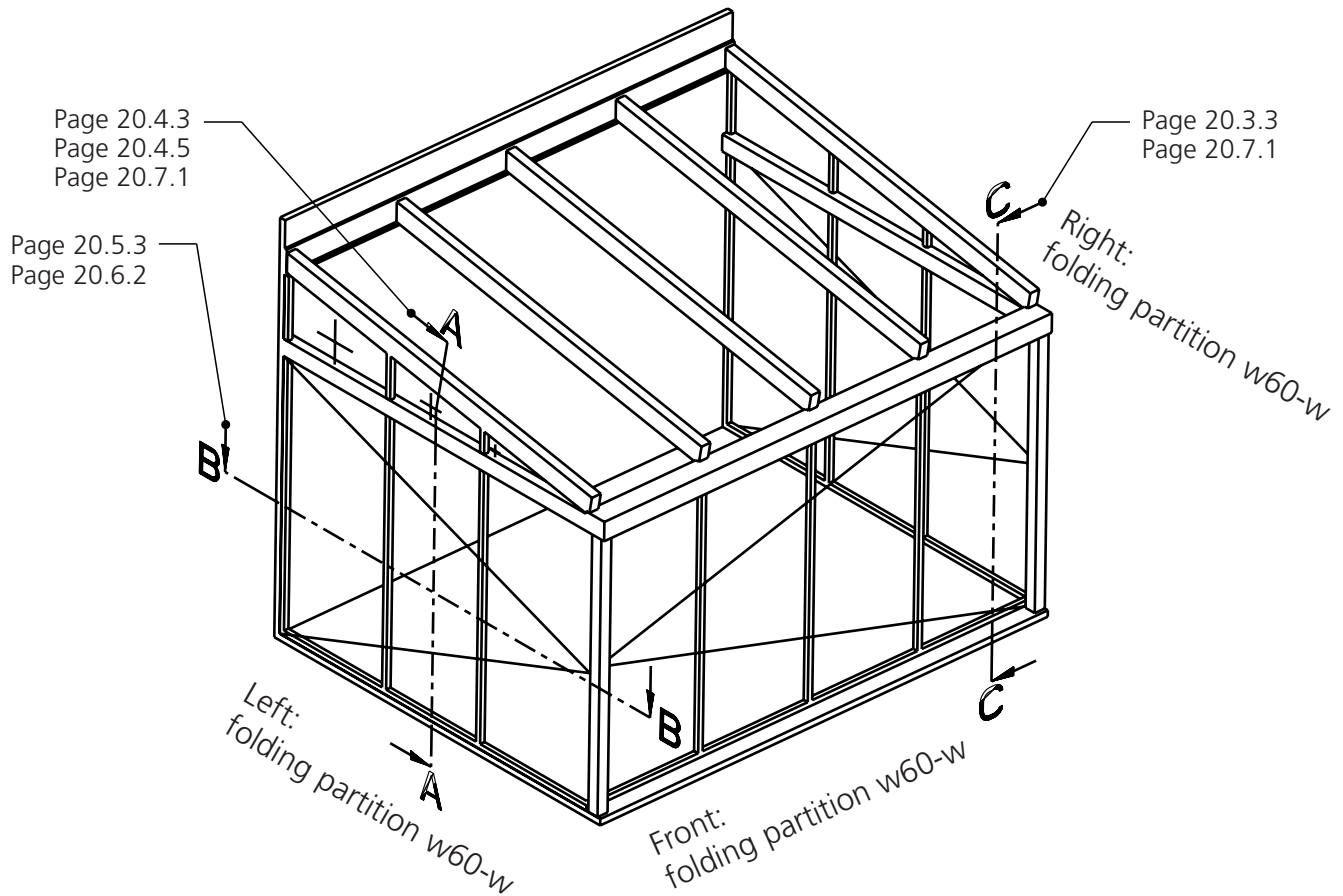
WeiTop Vivienda with Substructure Elements Example 1

20.2.1



WeiTop Vivienda with Substructure Elements Example 2

20.2.2

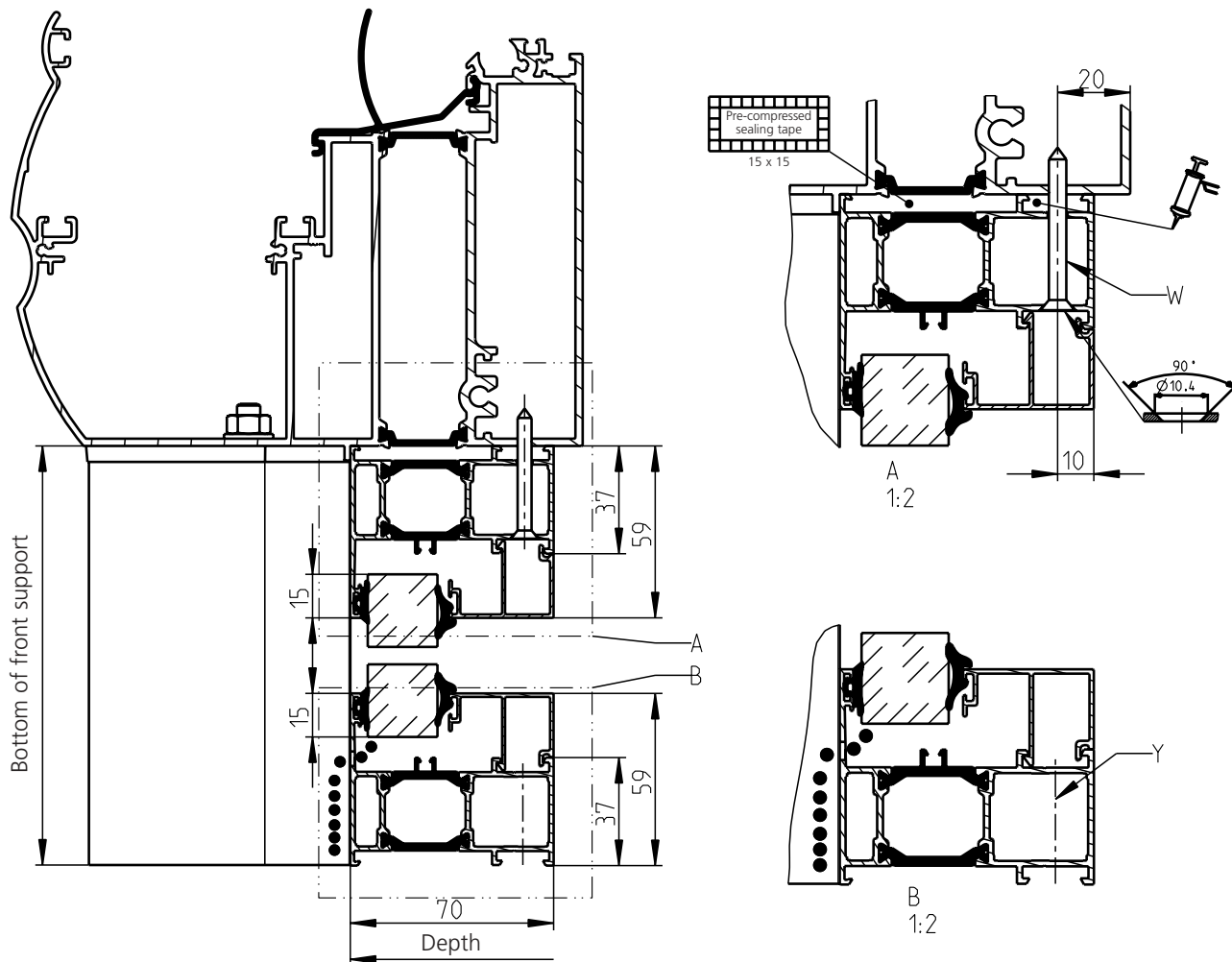


WeiTop Vivienda with Substructure Elements Example 3

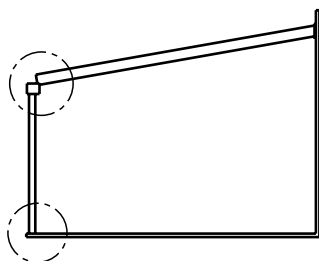
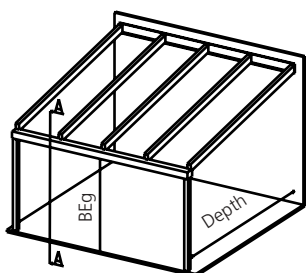
20.2.3



Connecting the System under the Front Support Fixed Glazing w70-w



Explanation of Symbols
(see also page 20.7.1)



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

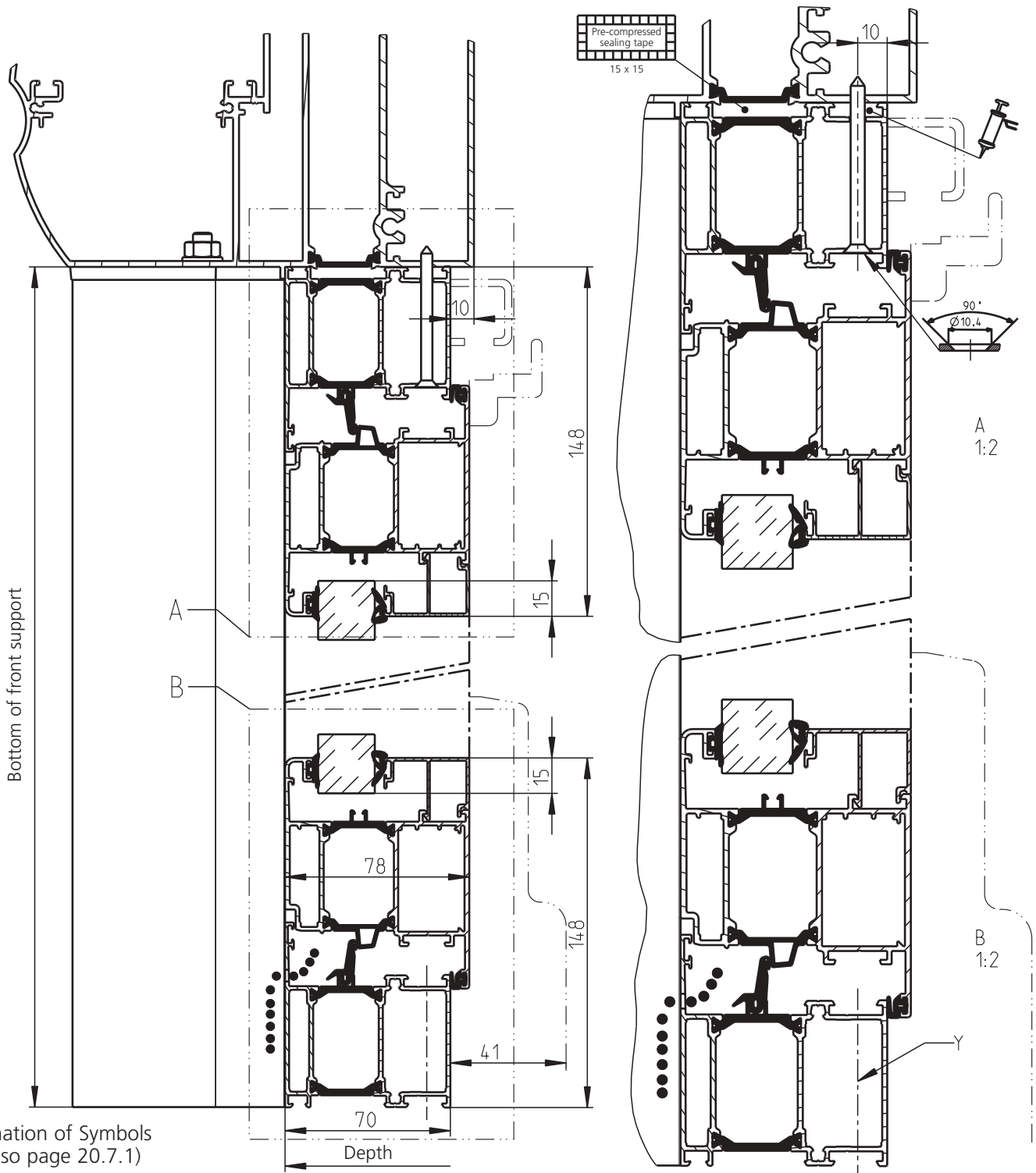
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

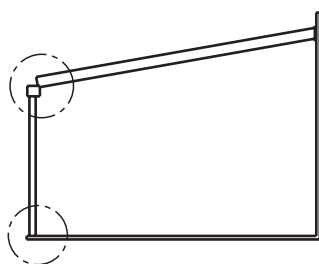
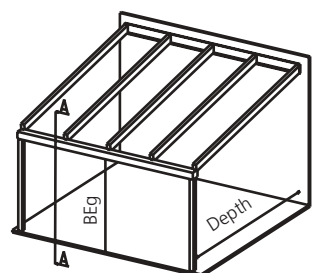
20.3.1



Connecting the System under the Front Support Parallel Tilt-and-Slide Door (PTS) w70-w



Explanation of Symbols
(see also page 20.7.1)



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections
400 mm
(max.) unless otherwise stated.

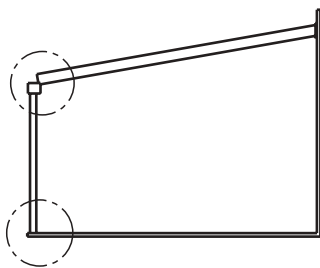
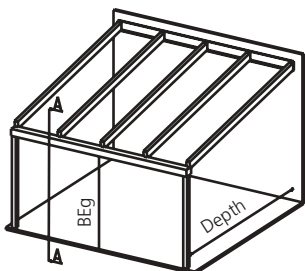
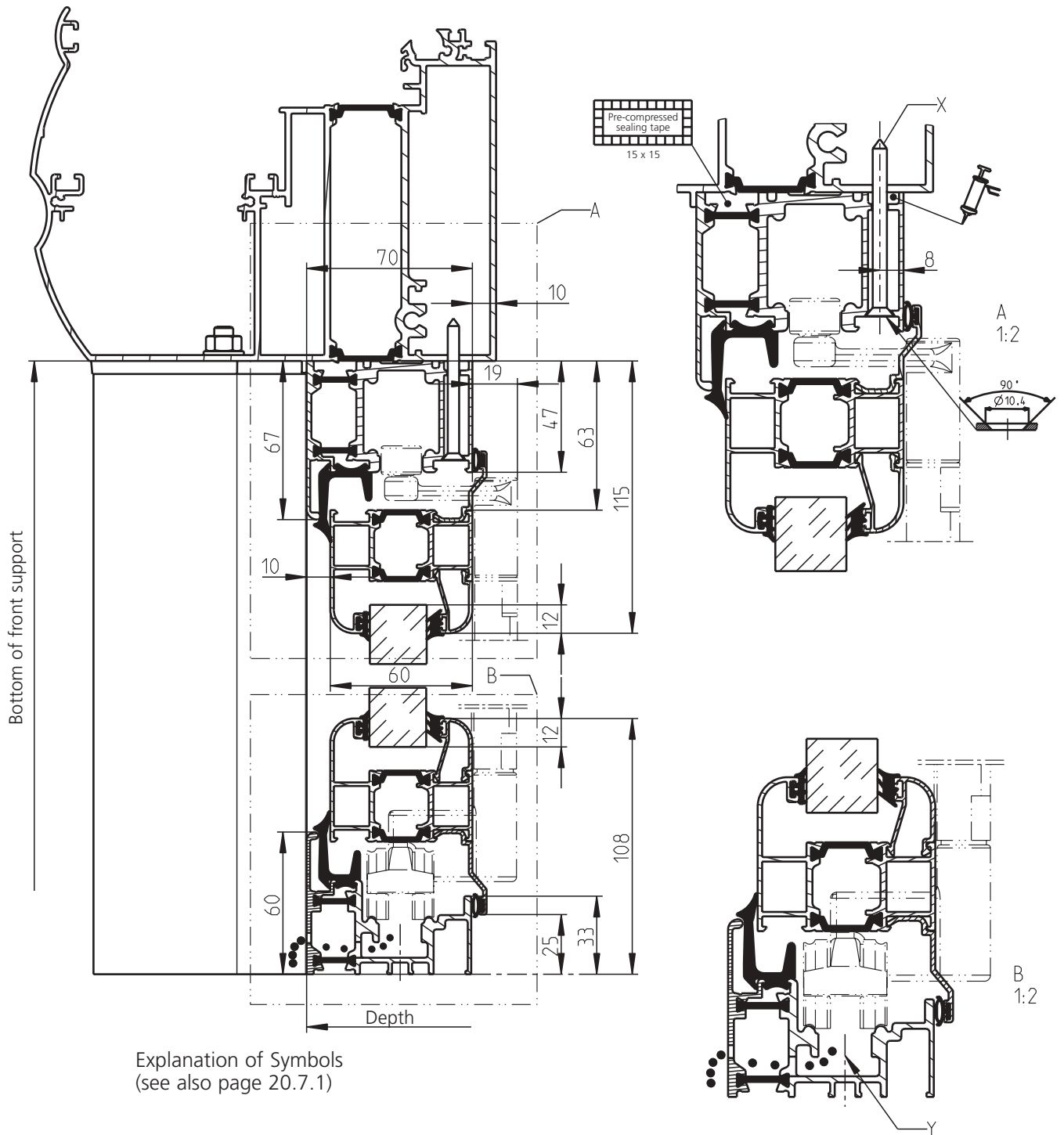
Scale: 1:2.5

20.3.2

Last updated: 22.01.2009
We reserve the right to make technical changes



Connecting the System under the Front Support
Folding Partition w60-w, folds inwards



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

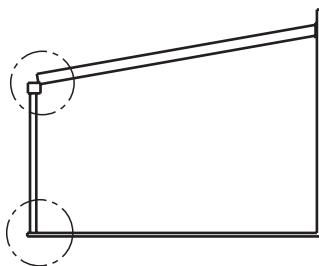
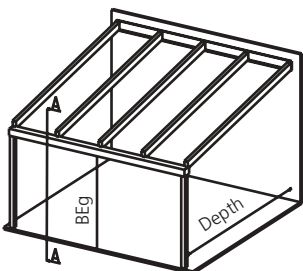
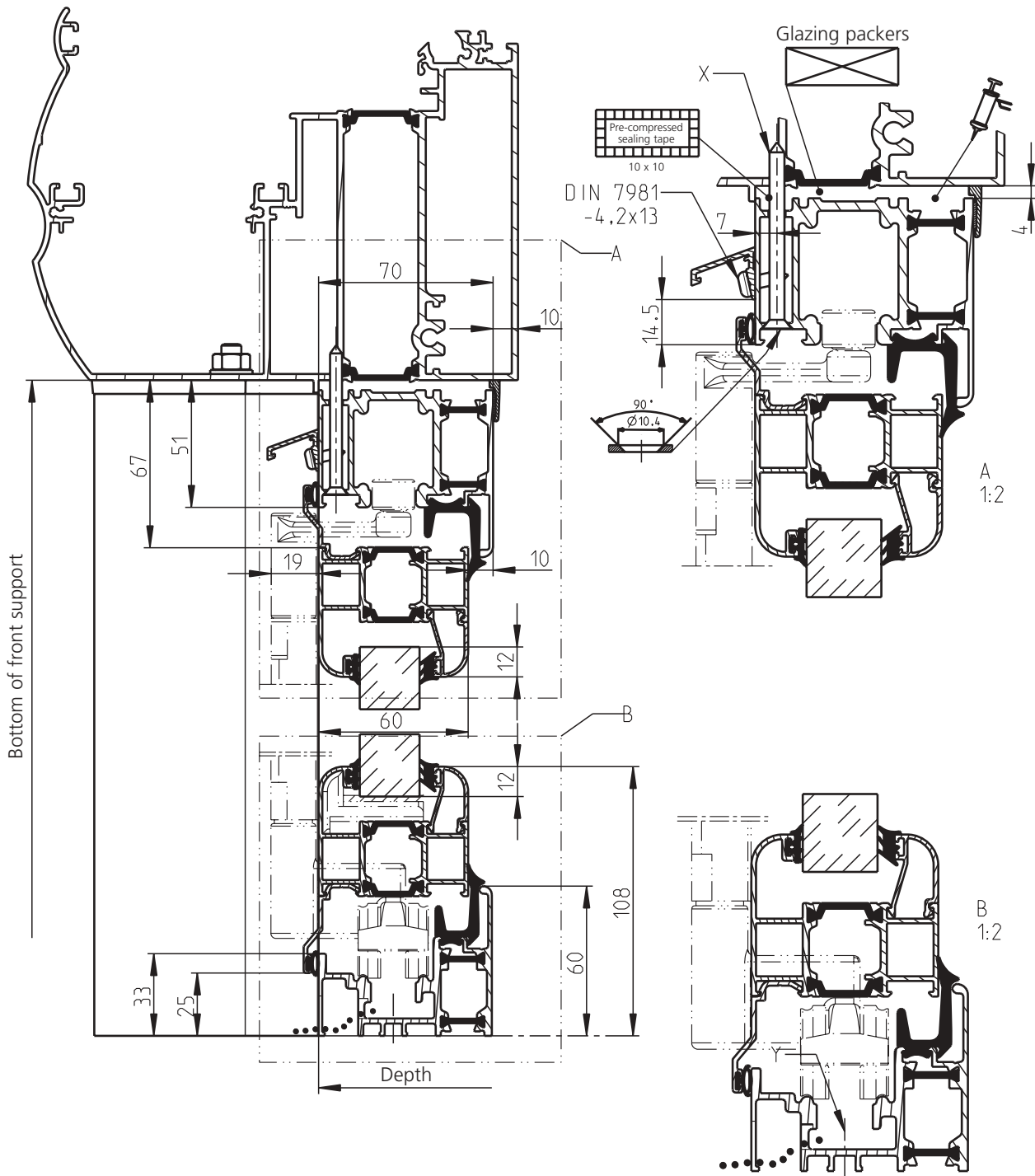
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

20.3.3



Connecting the System under the Front Support
Folding Partition w60-w, folds outwards



Explanation of Symbols (see also page 20.1.2)

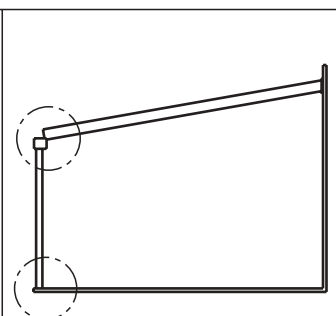
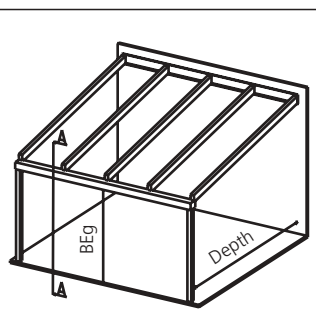
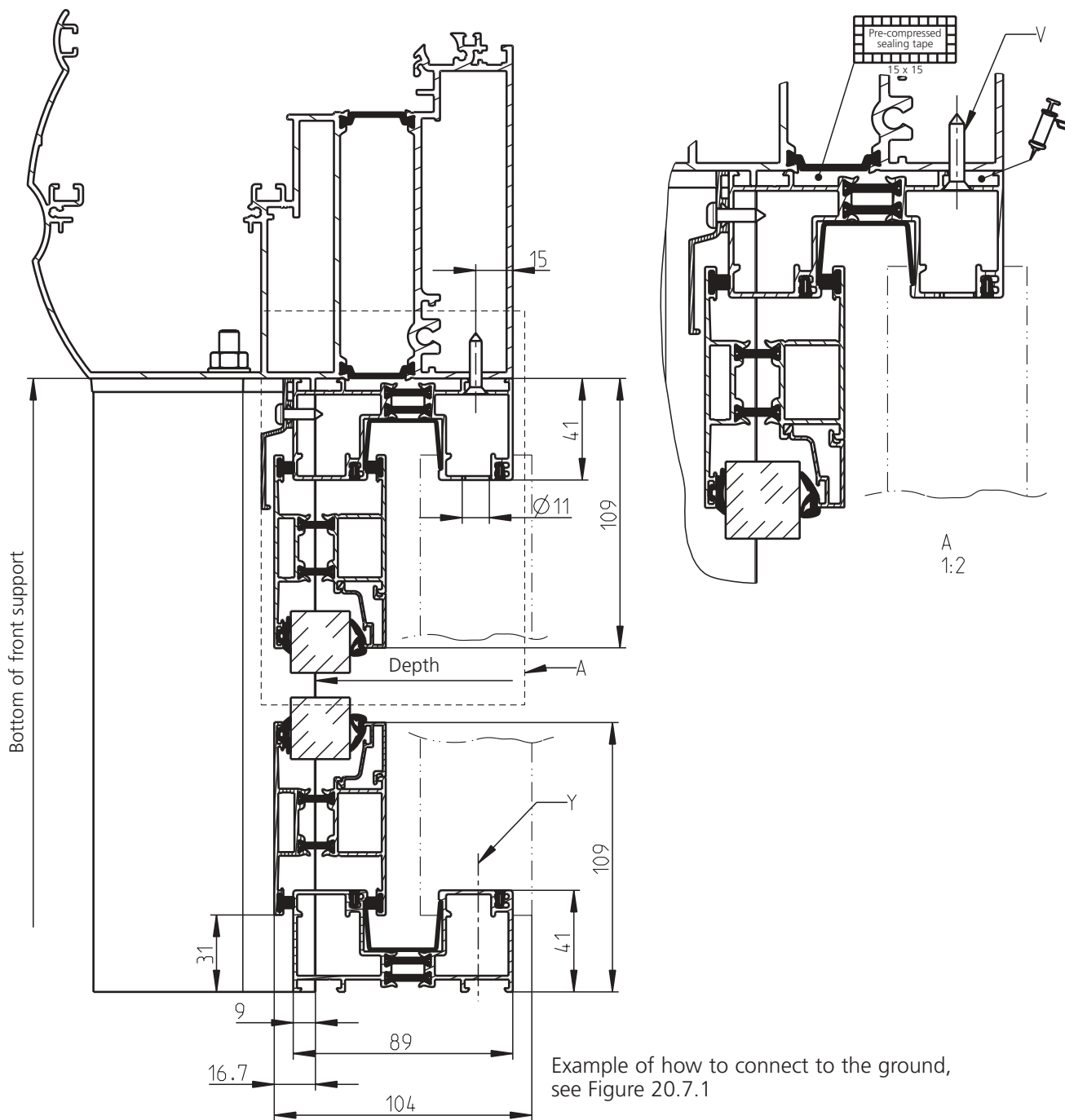
	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5
20.3.4



Connecting the System under the Front Support Sliding Door w45-c



Explanation of Symbols (see also page 20.1.2)	
	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

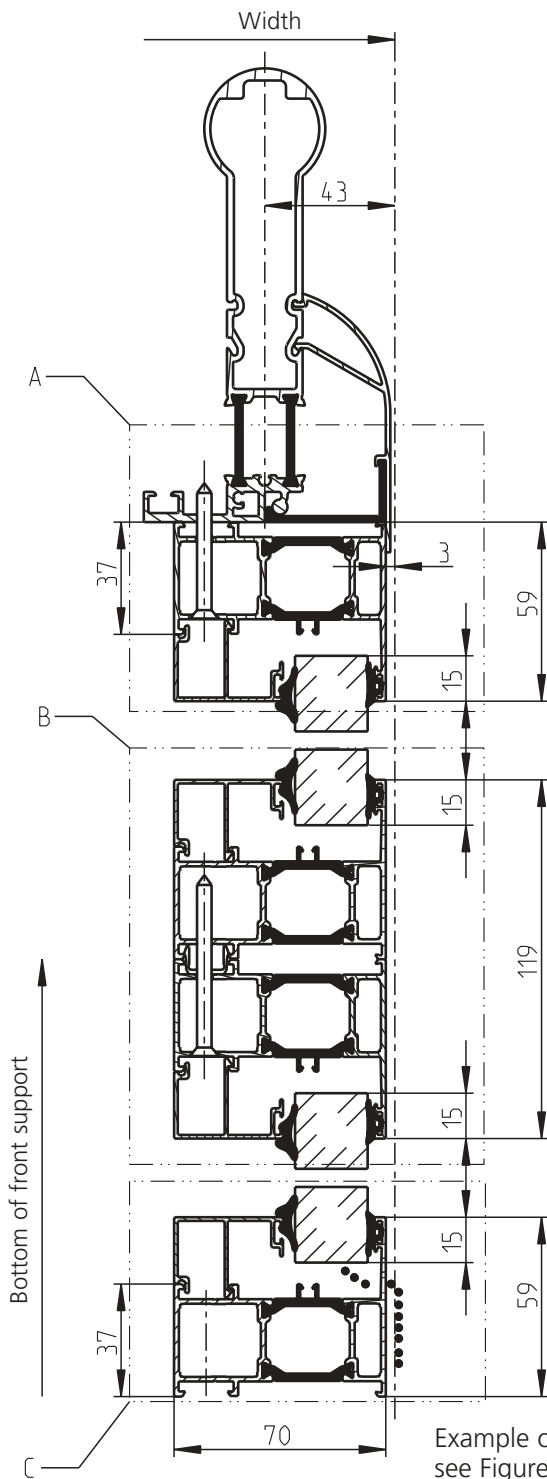
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

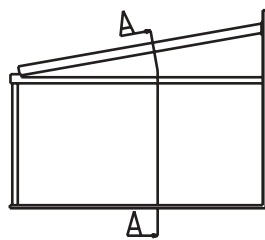
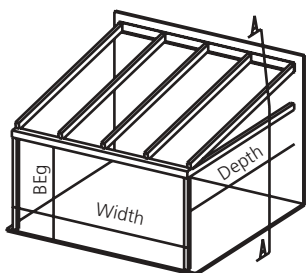
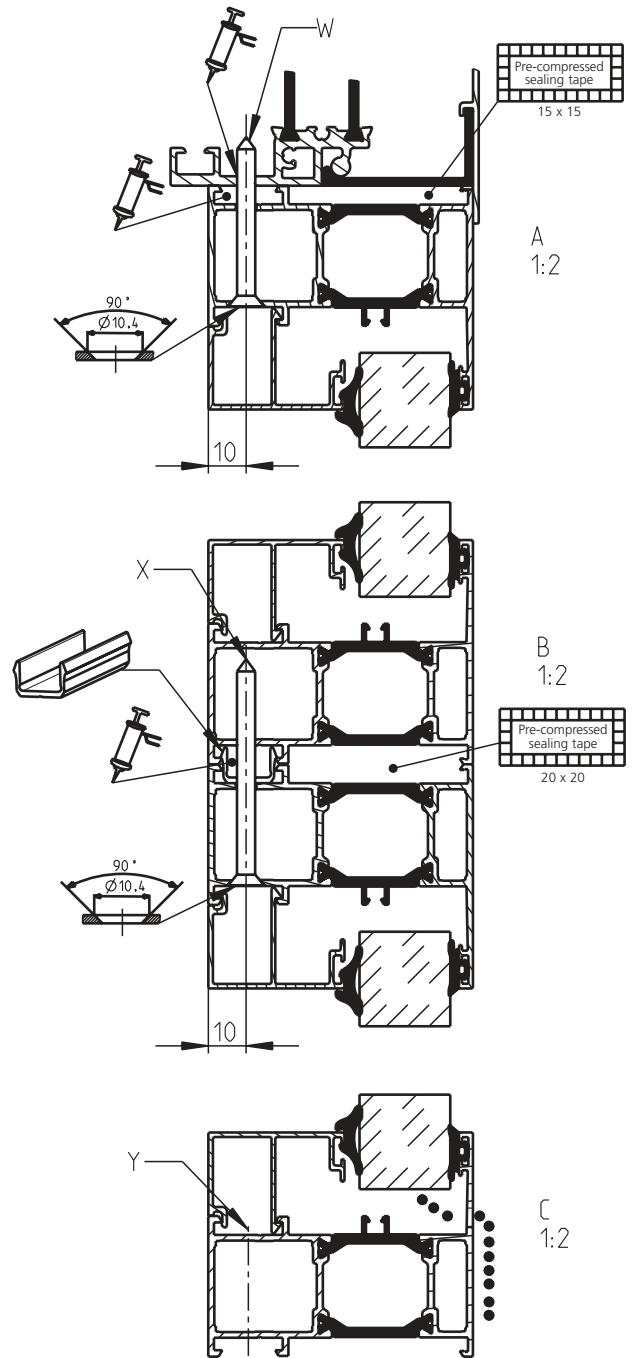
20.3.5



Connecting the System under the Side Roof Support Fixed Glazing w70-w



Example of how to connect to the ground,
see Figure 20.7.1



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

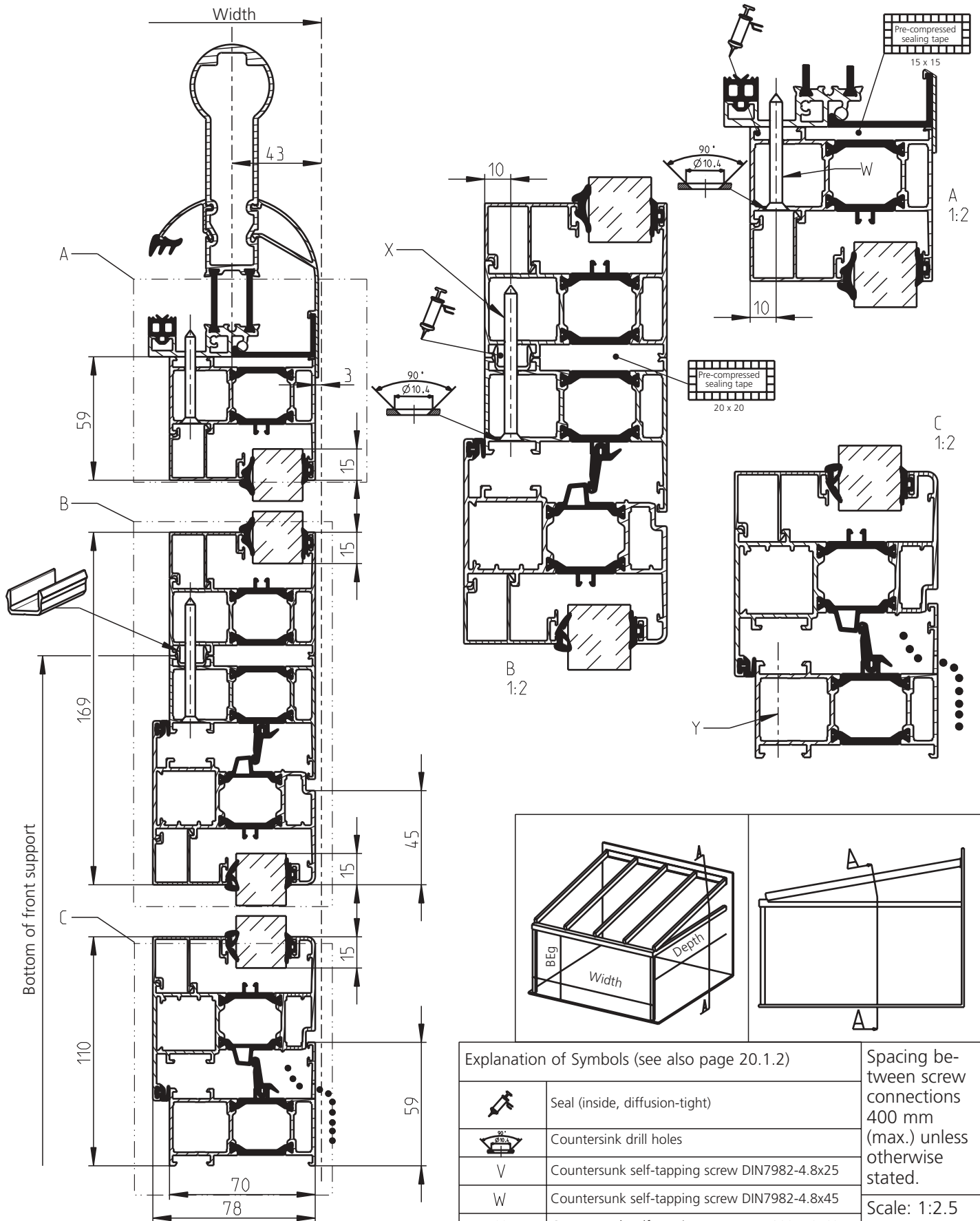
20.4.1

Last updated: 22.01.2009

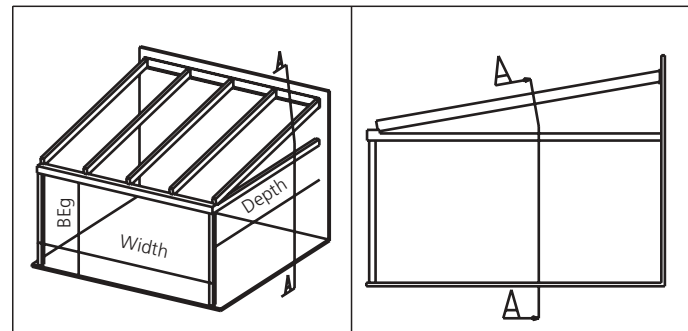
We reserve the right to make technical changes



Connecting the System under the Side Roof Support Window w70-w as a Door



Example of how to connect to the ground, see Figure 20.7.1



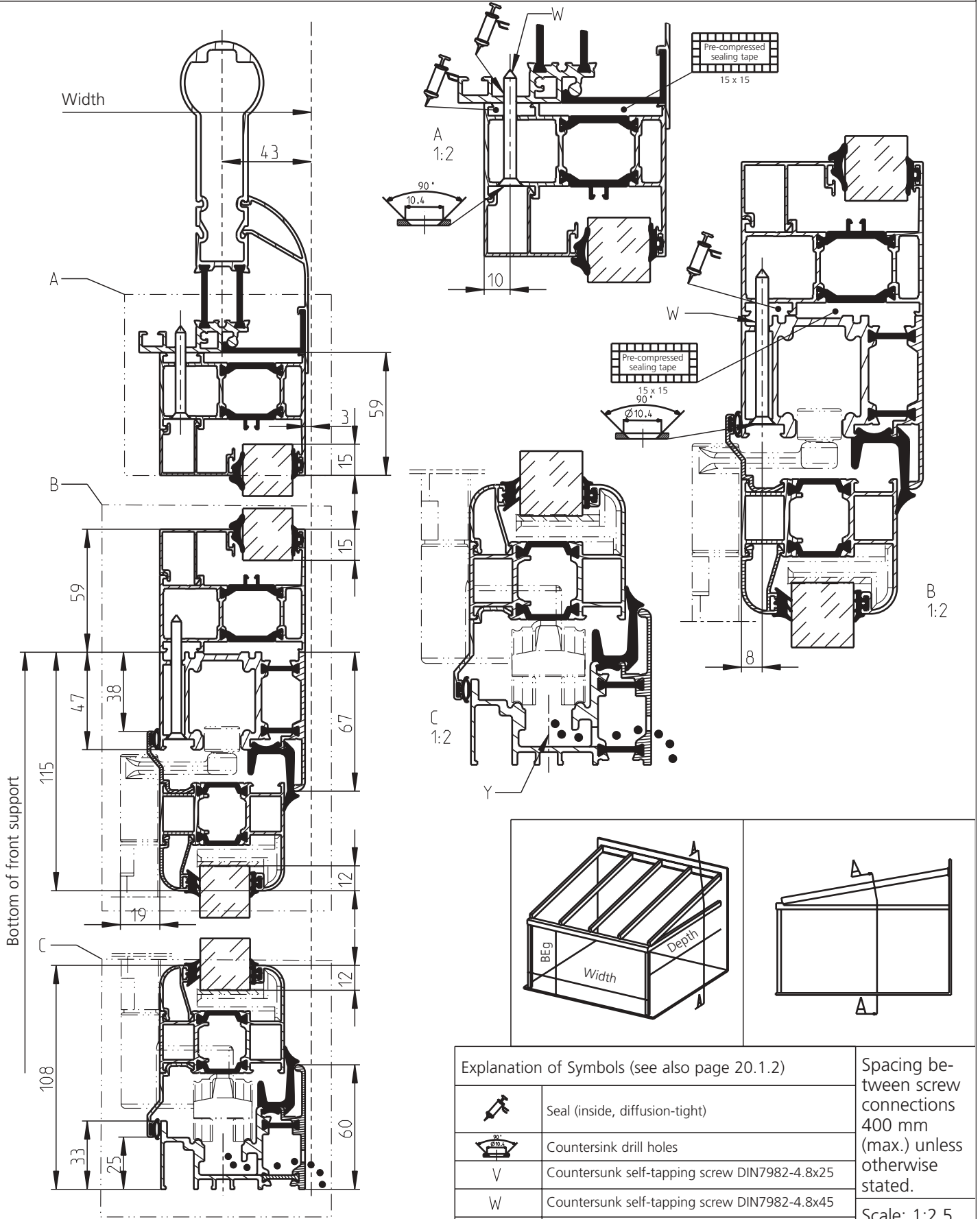
Explanation of Symbols (see also page 20.1.2)		Spacing between screw connections 400 mm (max.) unless otherwise stated.
	Seal (inside, diffusion-tight)	
	Countersink drill holes	
V	Countersunk self-tapping screw DIN7982-4.8x25	
W	Countersunk self-tapping screw DIN7982-4.8x45	
X	Countersunk self-tapping screw DIN7982-4.8x60	
Y	Screws fitted on-site	

Scale: 1:2.5

20.4.2



Connecting the System under the Side Roof Support Folding Partition w60-w, folds inwards

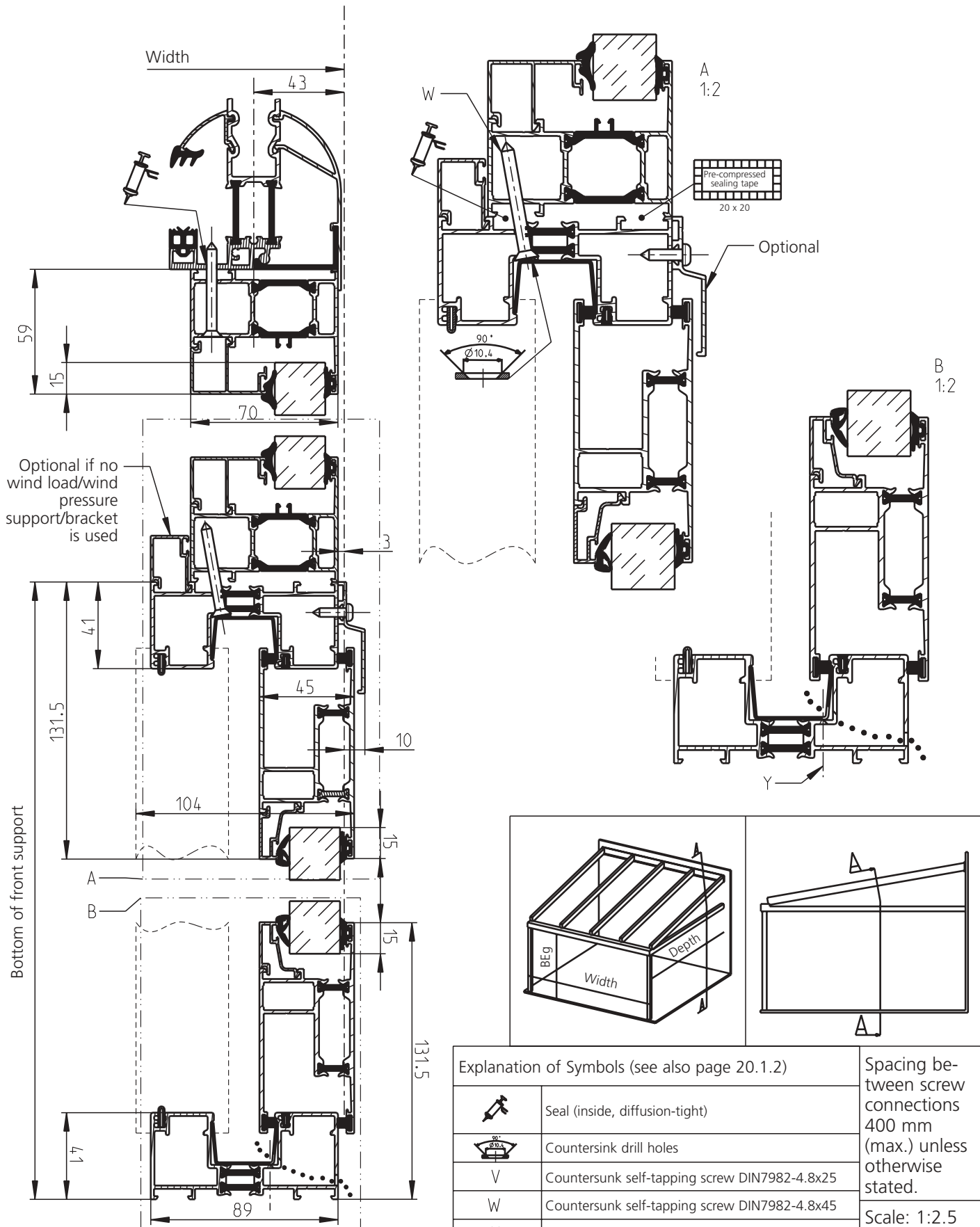


Example of how to connect to the ground, see Figure 20.7.1

Explanation of Symbols (see also page 20.1.2)		Spacing between screw connections 400 mm (max.) unless otherwise stated.
	Seal (inside, diffusion-tight)	
	Countersink drill holes	
V	Countersunk self-tapping screw DIN7982-4.8x25	
W	Countersunk self-tapping screw DIN7982-4.8x45	
X	Countersunk self-tapping screw DIN7982-4.8x60	
Y	Screws fitted on-site	
		Scale: 1:2.5
		20.4.3



Connecting the System under the Side Roof Support Lift-and Slide Door w45-w

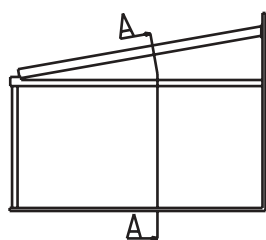
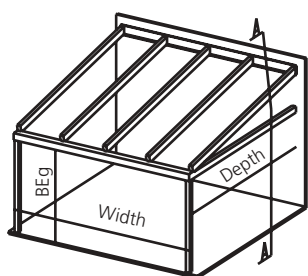
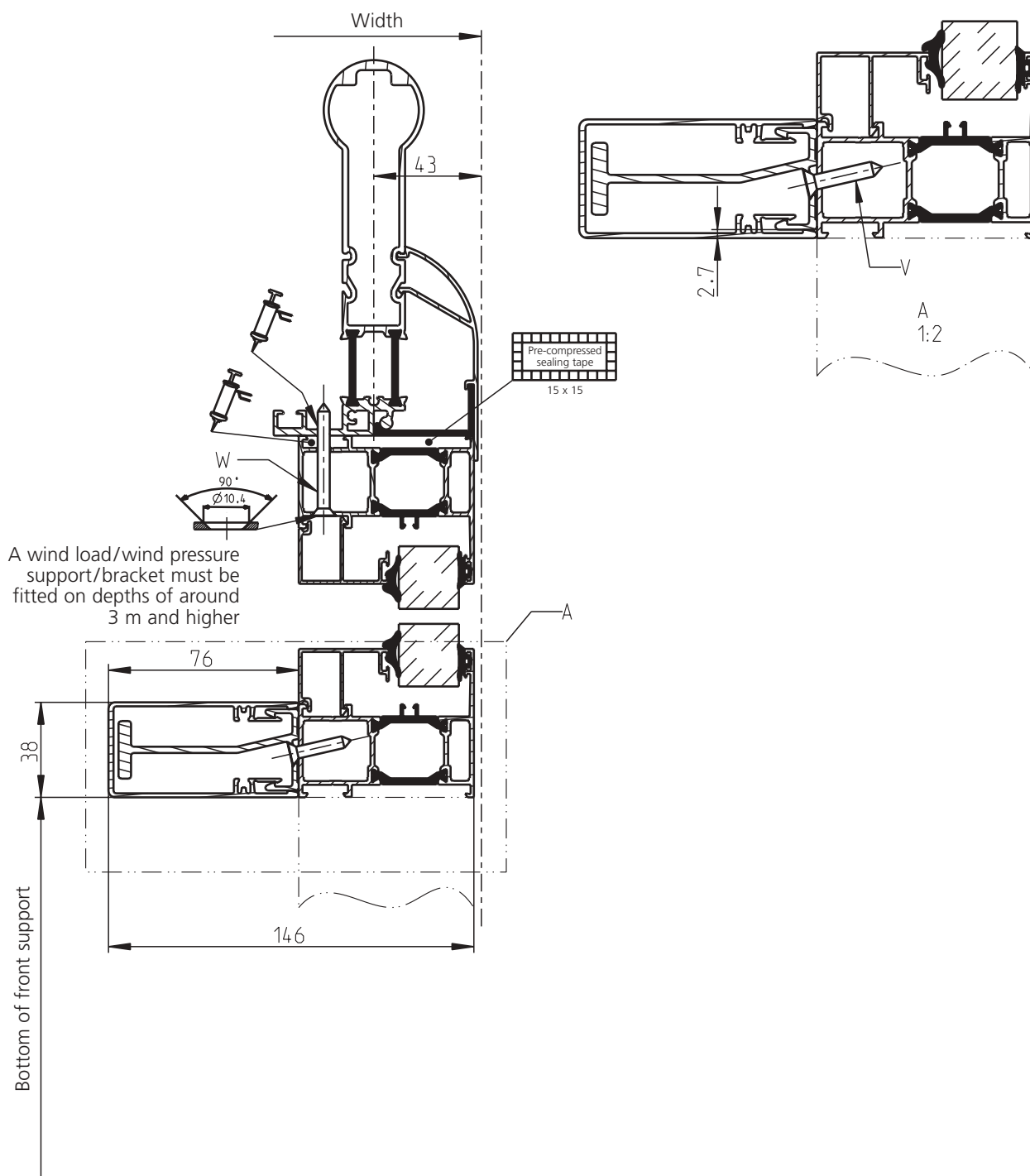


Example of how to connect to the ground, see Figure 20.7.1

Explanation of Symbols (see also page 20.1.2)		Spacing between screw connections 400 mm (max.) unless otherwise stated.
	Seal (inside, diffusion-tight)	
	Countersink drill holes	
V	Countersunk self-tapping screw DIN7982-4.8x25	
W	Countersunk self-tapping screw DIN7982-4.8x45	
X	Countersunk self-tapping screw DIN7982-4.8x60	
Y	Screws fitted on-site	
		Scale: 1:2.5
		20.4.4



Connecting the System under the Side Roof Support Inside Wind Load/Wind Pressure Support/Bracket



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

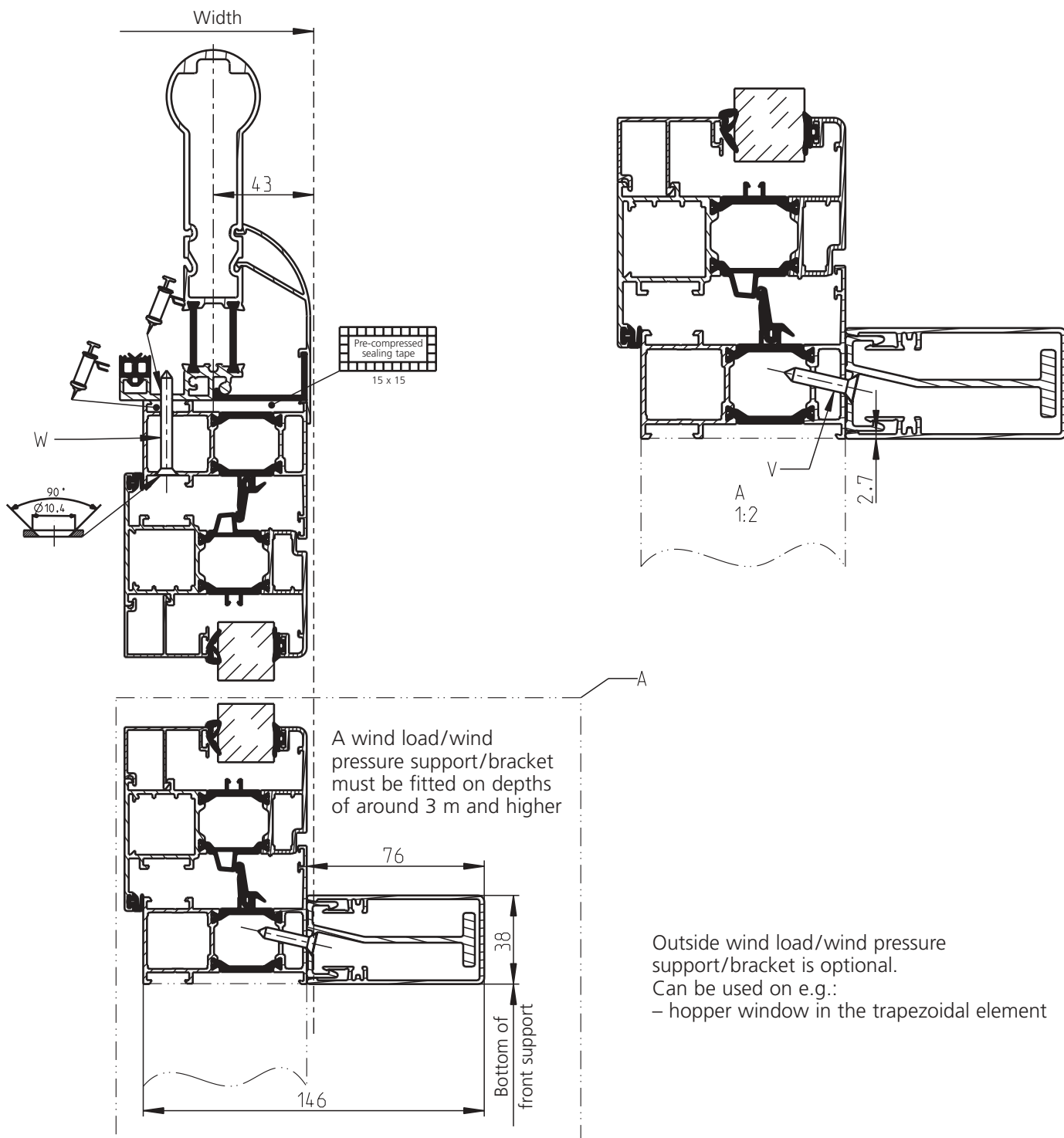
20.4.5

Last updated: 23.01.2009

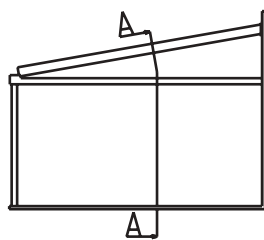
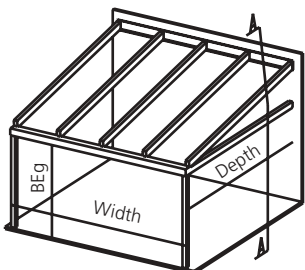
We reserve the right to make technical changes



Connecting the System under the Side Roof Support Outside Wind Load/Wind Pressure Support/Bracket



Outside wind load/wind pressure support/bracket is optional.
Can be used on e.g.:
– hopper window in the trapezoidal element



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

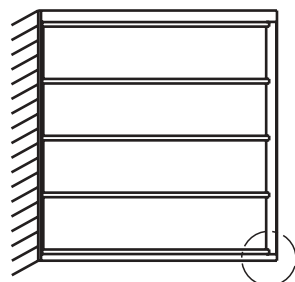
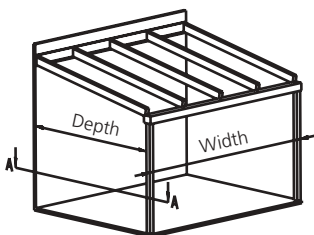
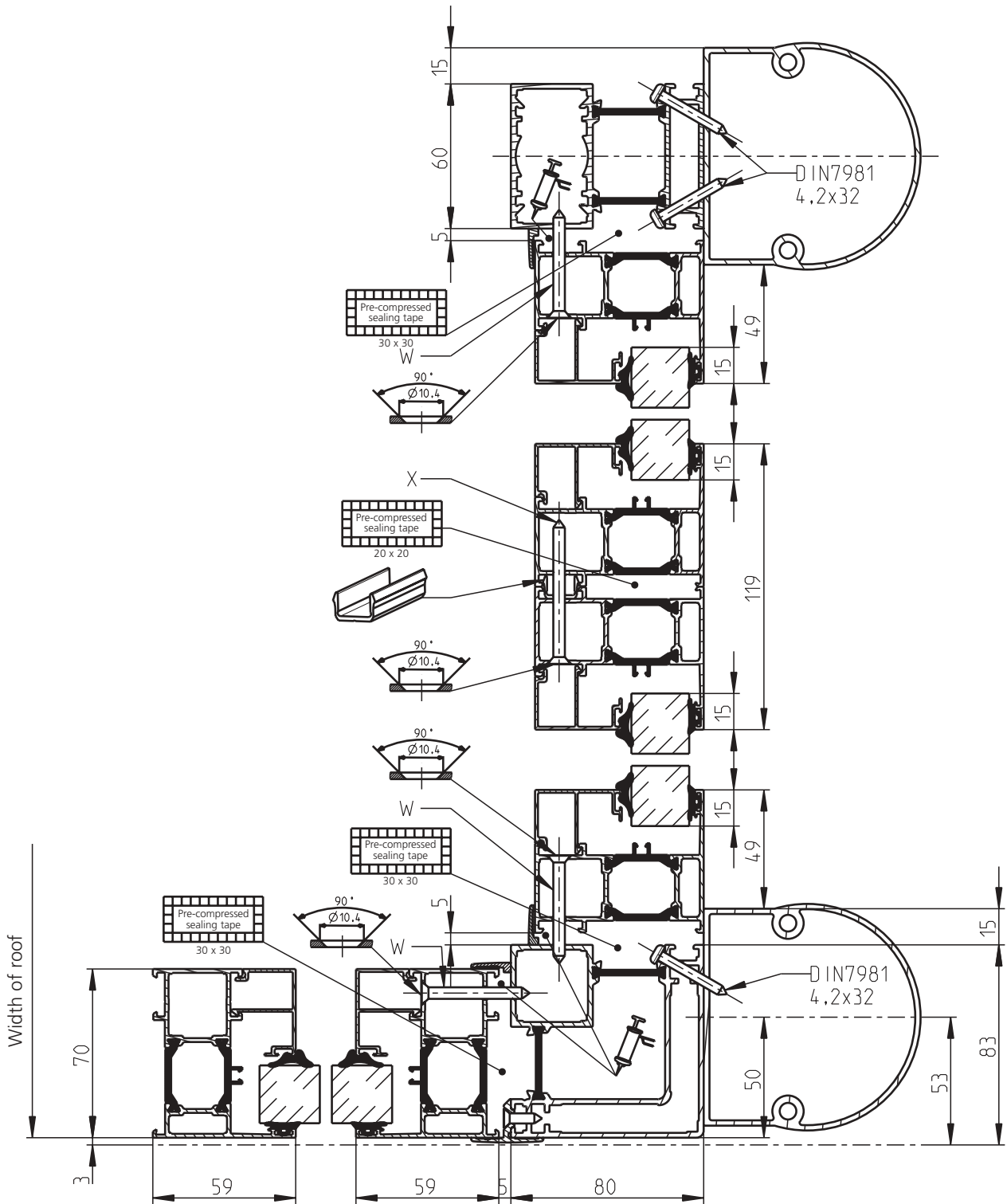
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

20.4.6



Connecting the System: to the Corner Post
 Front: Fixed Glazing w70-w; Side: Fixed Glazing w70-w



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

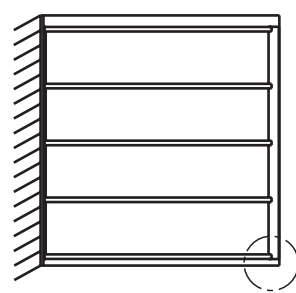
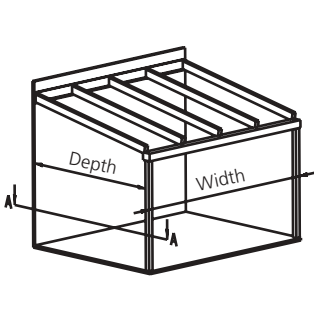
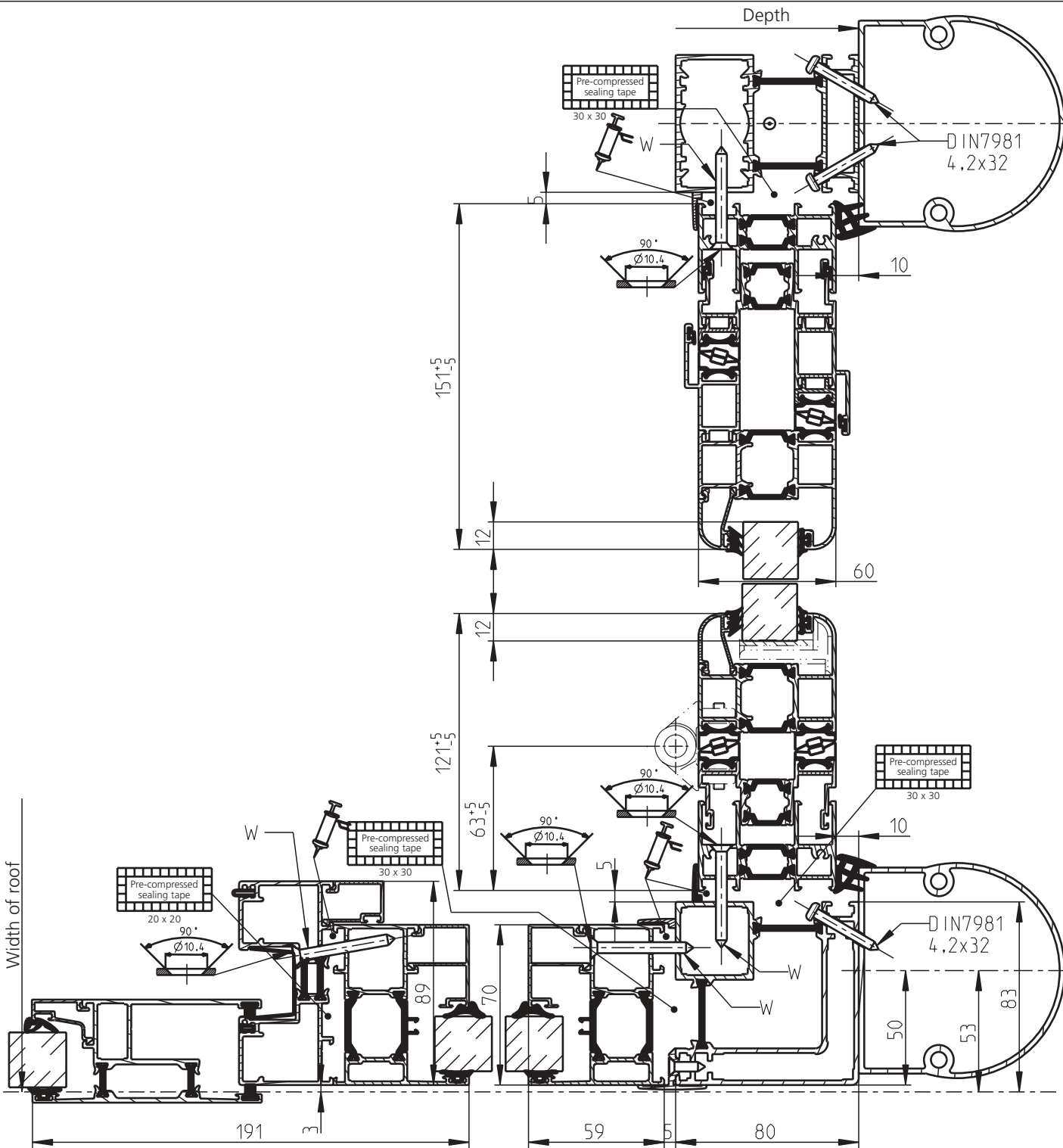
20.5.1

WeiTop Vivienda



Connecting the System under the Side Roof Support

Front: Folding Partition w60-w; Side: Fixed Glazing w70-w and Lift-and-Slide Door w45-w



Explanation of Symbols (see also page 20.1.2)		Spacing between screw connections 400 mm (max.) unless otherwise stated.
	Seal (inside, diffusion-tight)	
	Countersunk drill holes	
	Countersunk self-tapping screw DIN7982-4.8x25	
	Countersunk self-tapping screw DIN7982-4.8x45	
	Countersunk self-tapping screw DIN7982-4.8x60	
	Screws fitted on-site	

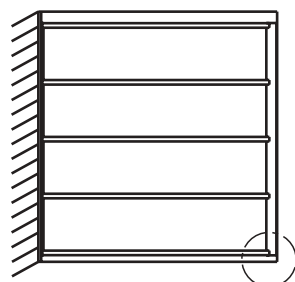
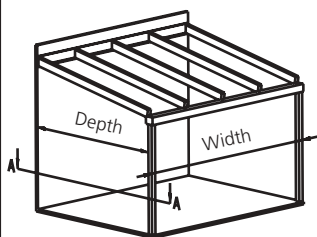
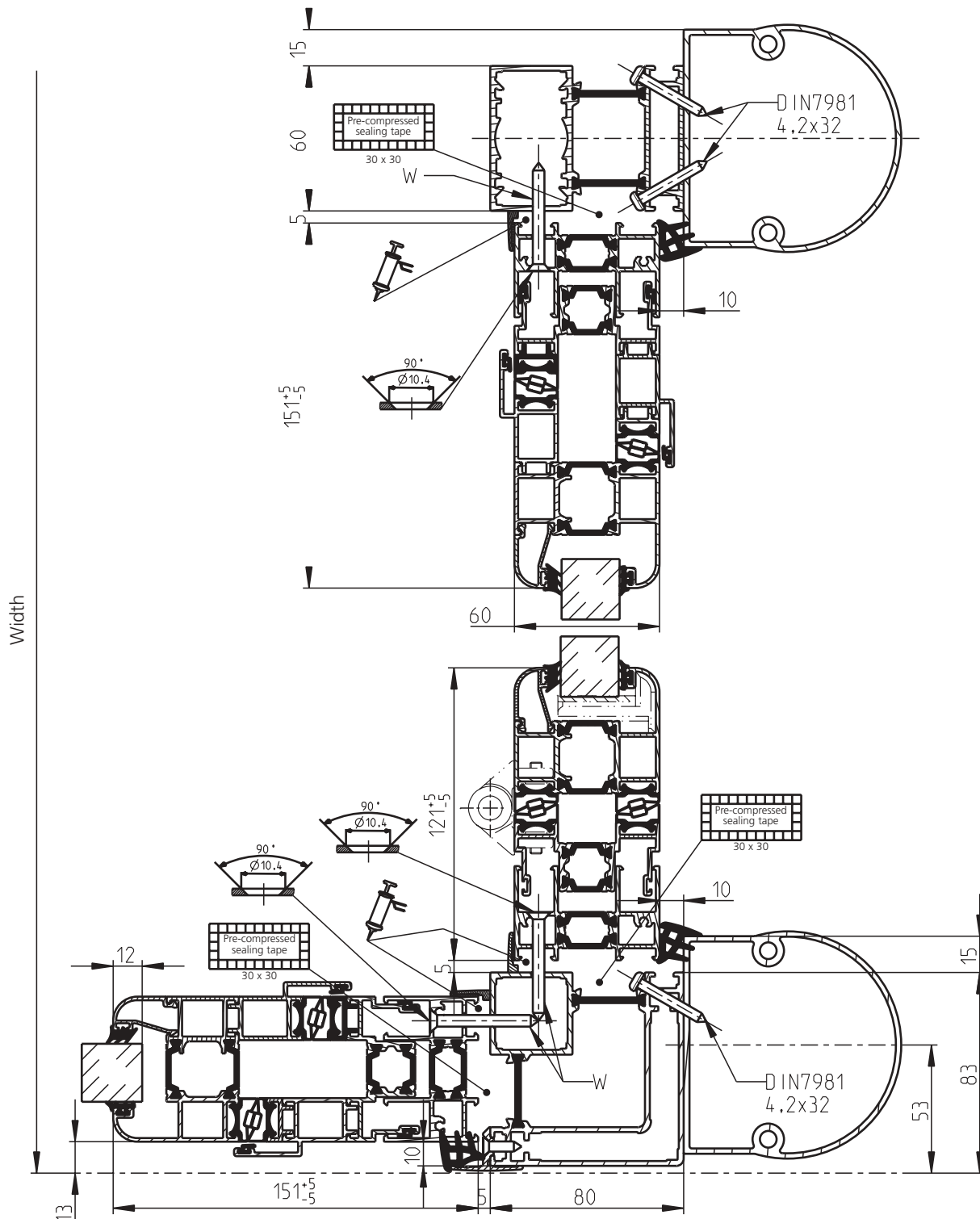
Last updated: 26.01.2009
We reserve the right to make technical changes





Connecting the System to the Corner Posts

Front: Folding Partition w60-w; Side: Folding Partition w60-w



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

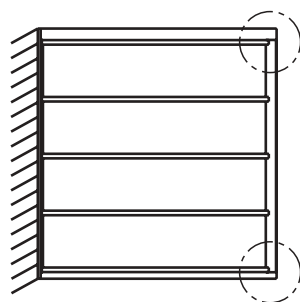
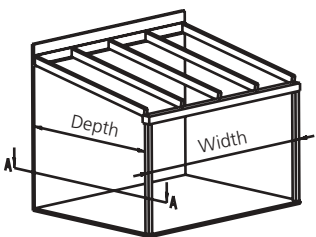
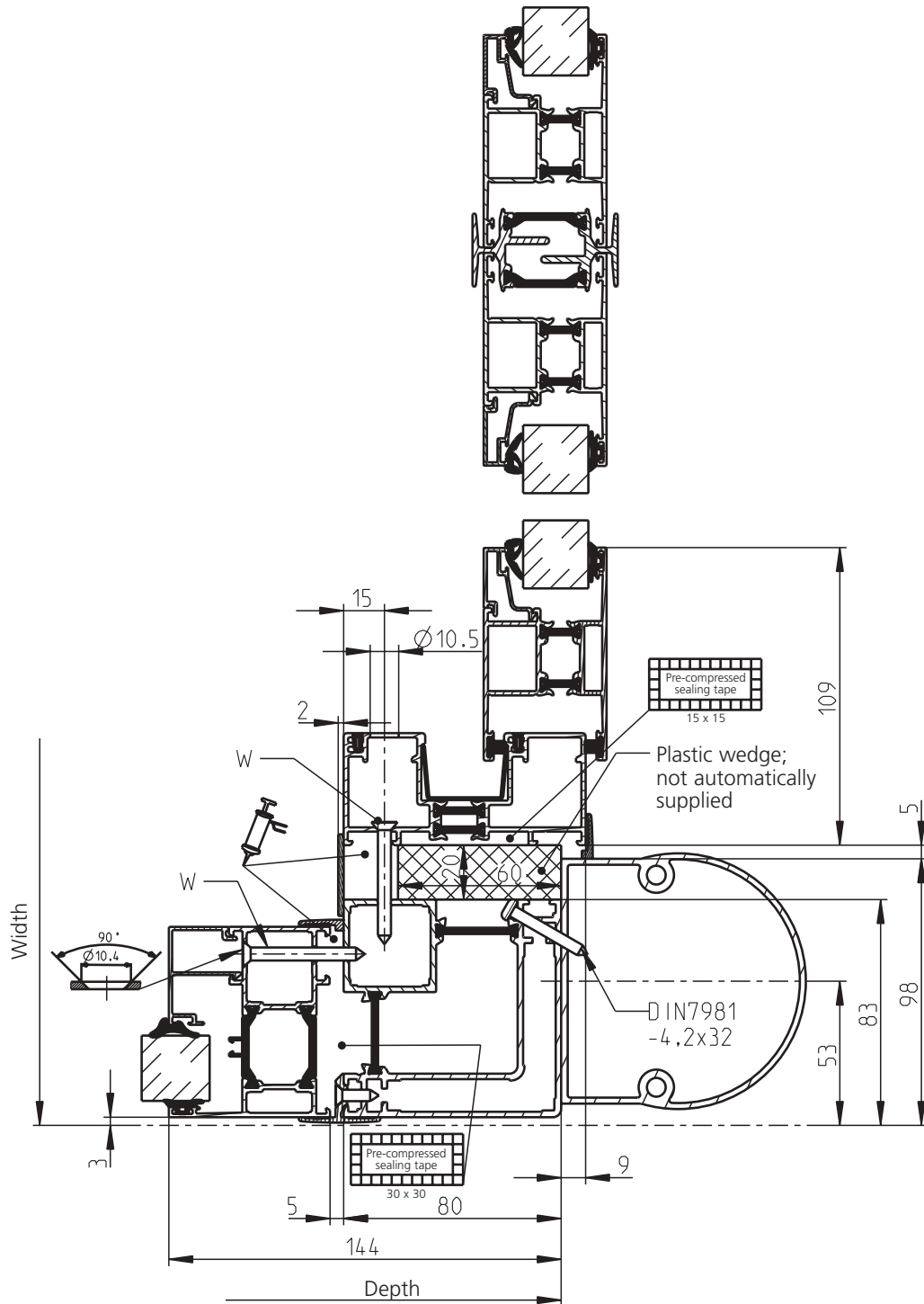
20.5.3

Last updated: 26.01.2009

We reserve the right to make technical changes



Connecting the System to the Corner Post
 Front: Sliding Door w45-w; Side: Fixed Glazing w70-w



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

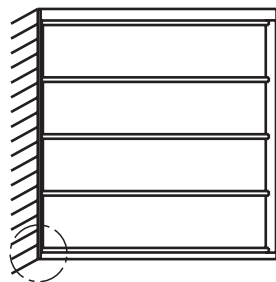
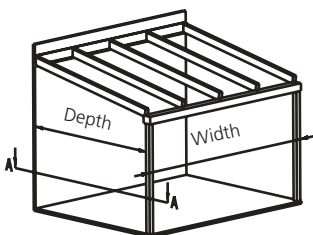
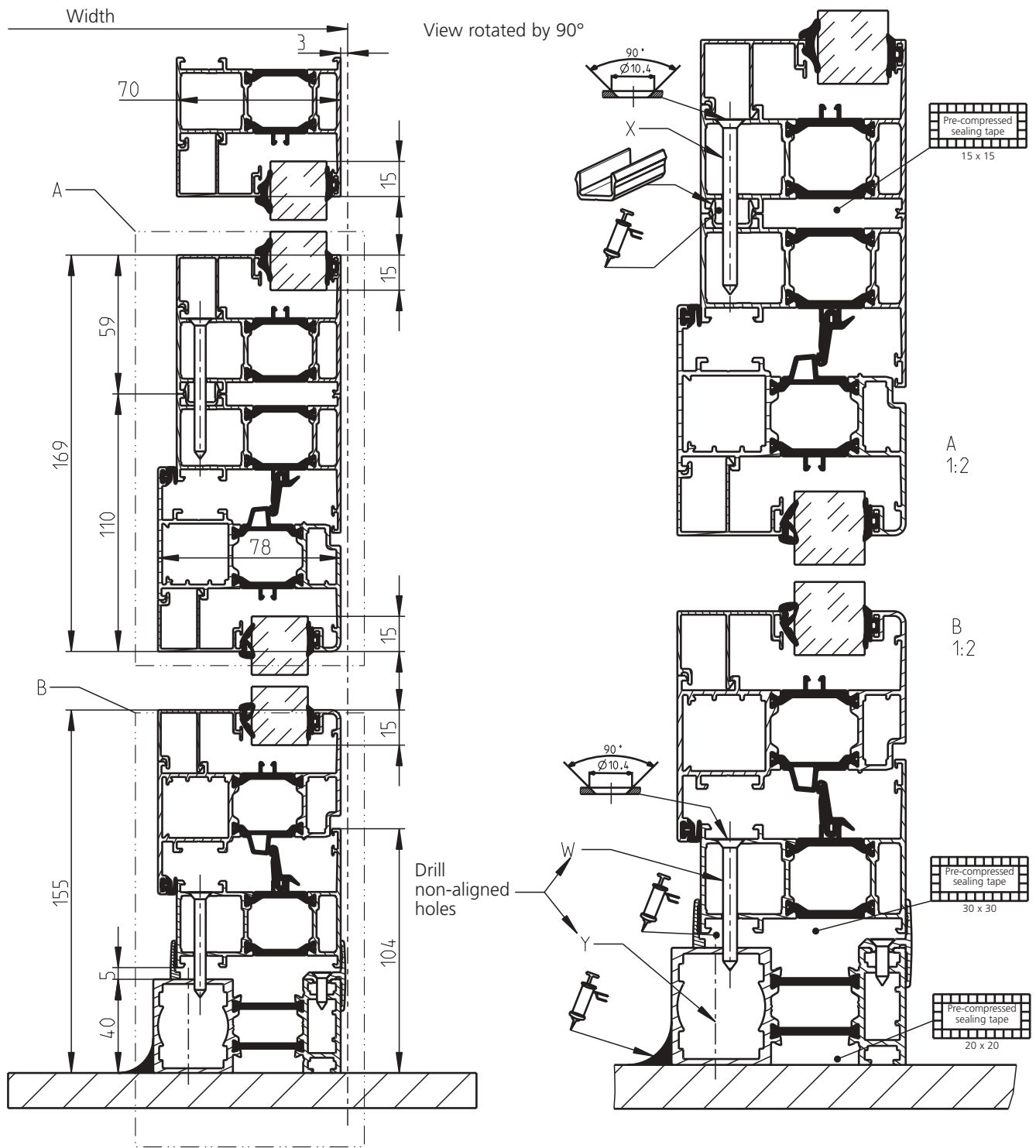
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

20.5.4



Connecting the System to the Wall Window w70-w as a Door



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

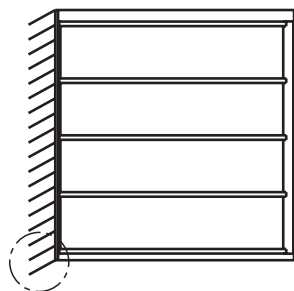
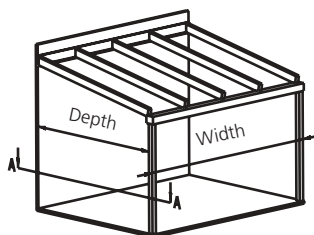
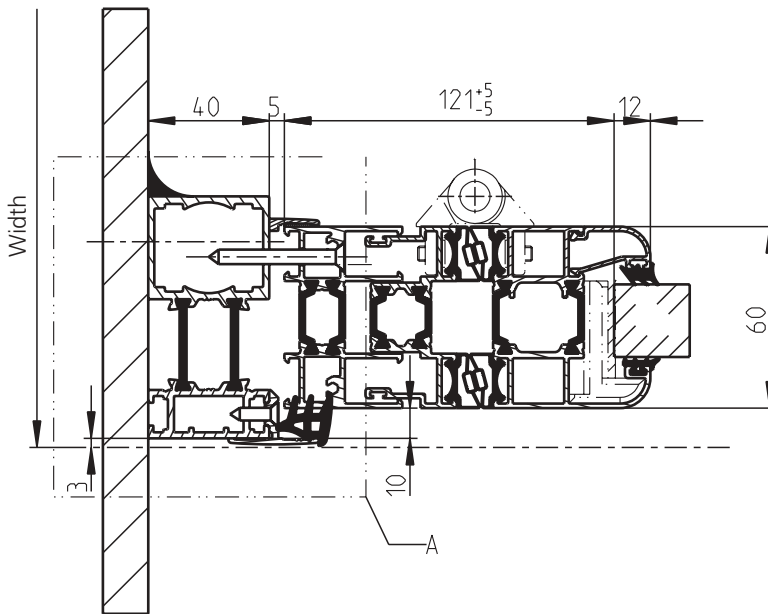
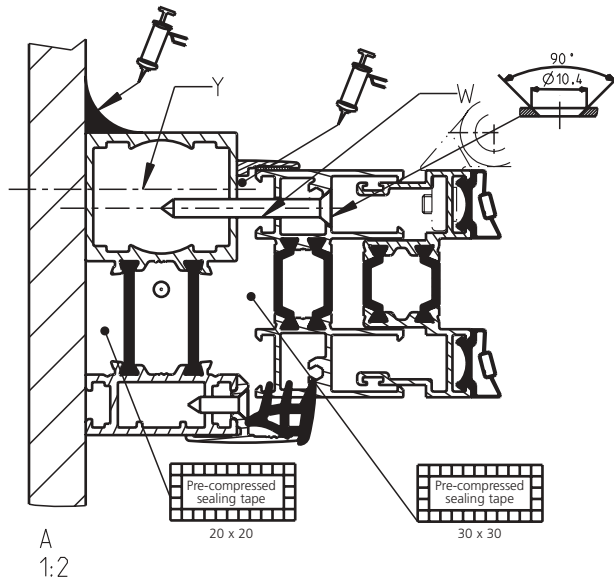
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

20.6.1



Connecting the System to the Wall Folding Partition w60-w



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

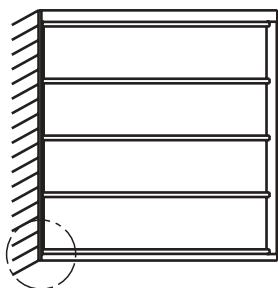
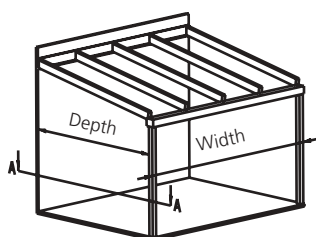
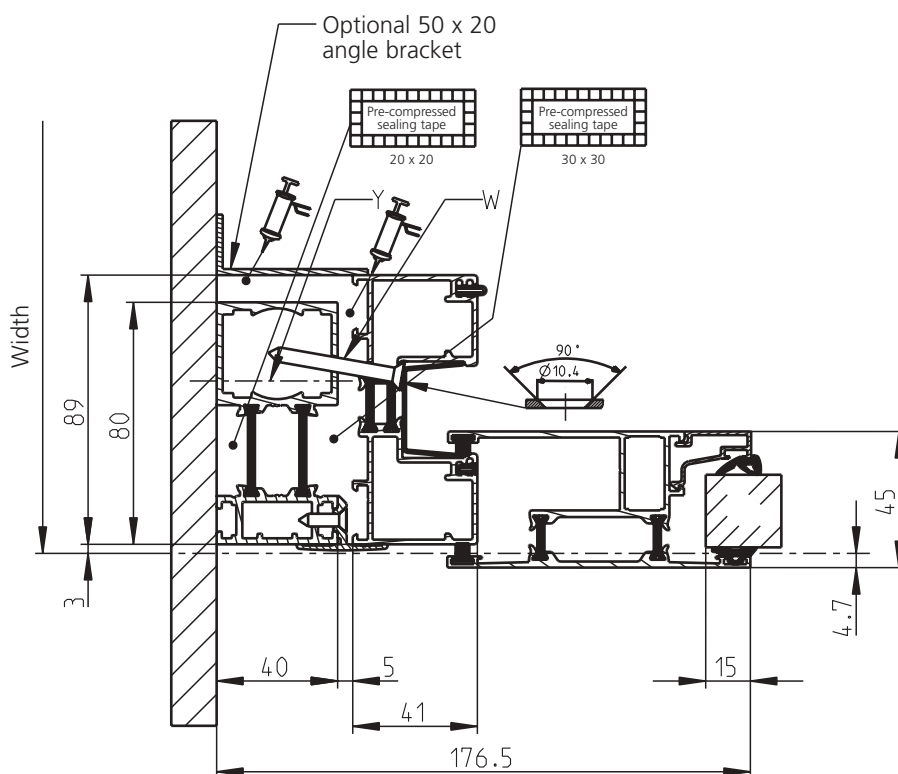
Spacing between screw connections 400 mm (max.) unless otherwise stated.

Scale: 1:2.5

20.6.2



Connecting the System to the Wall Lift-and-Slide Door w45-w



Explanation of Symbols (see also page 20.1.2)

	Seal (inside, diffusion-tight)
	Countersink drill holes
V	Countersunk self-tapping screw DIN7982-4.8x25
W	Countersunk self-tapping screw DIN7982-4.8x45
X	Countersunk self-tapping screw DIN7982-4.8x60
Y	Screws fitted on-site

Spacing between screw connections 400 mm (max.) unless otherwise stated.

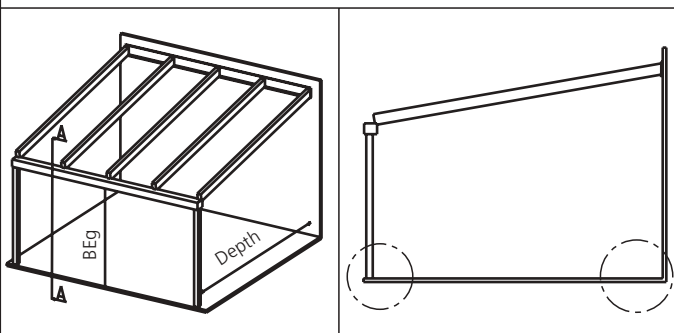
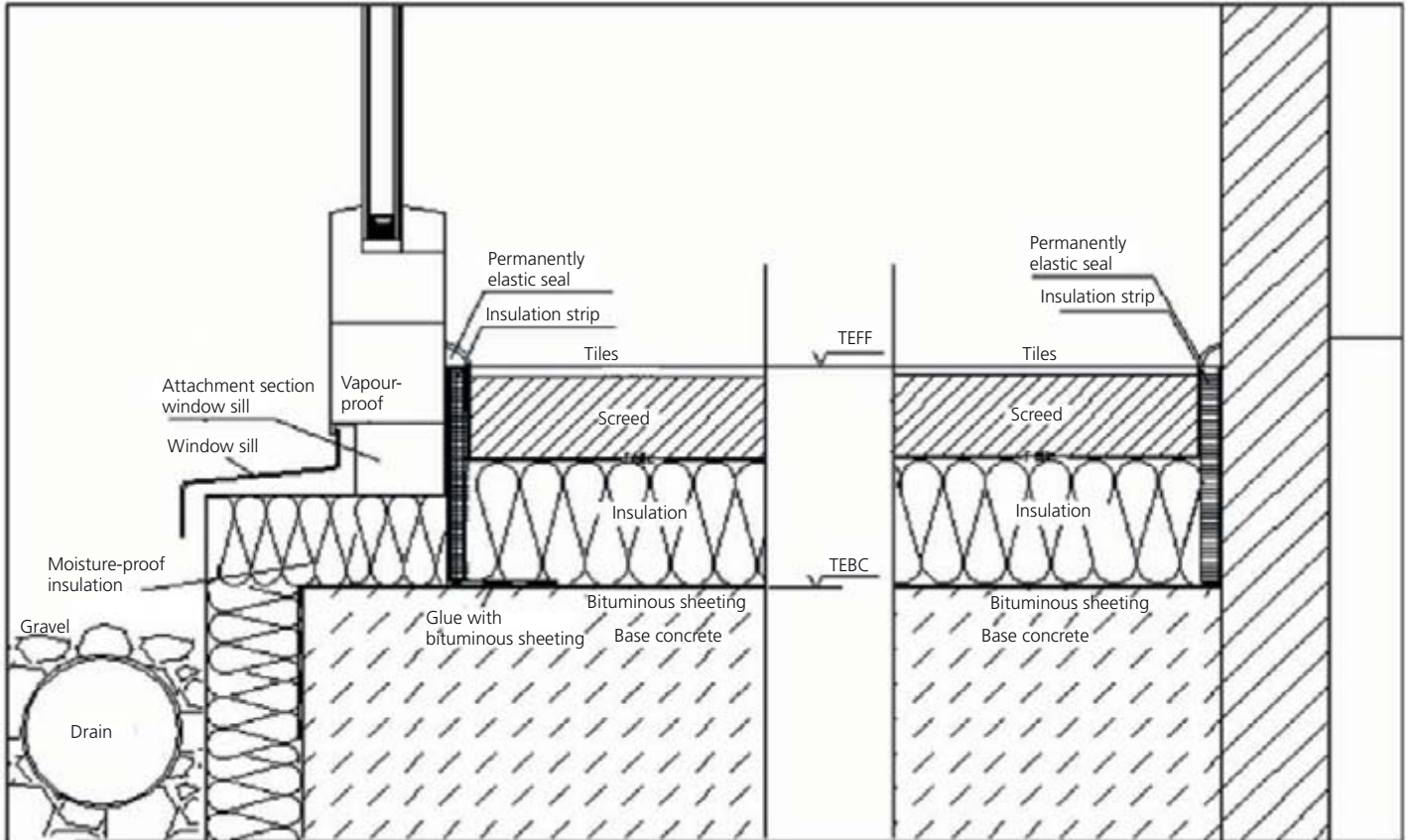
Scale: 1:2.5

20.6.3



Example of How to Connect to the Ground

WFACHVERBAND WOHN-
Wintergarten e.V.



20.7.1



1) Coupling the Frame – General Comments

- Coupling pieces can be used to connect two frames from two similar systems.
- The coupling pieces serve to align the frames to each other so that they lie flush under each other or flush side by side.
- Coupling pieces are available for the following couplings:
 1. Coupling a w70-w frame to a w70-w frame
- The coupling pieces are only designed to assist the installation work. The frame sections will still need to be screwed together.

2) Sample Coupling

Coupling of w70-w frame to w70-w frame

