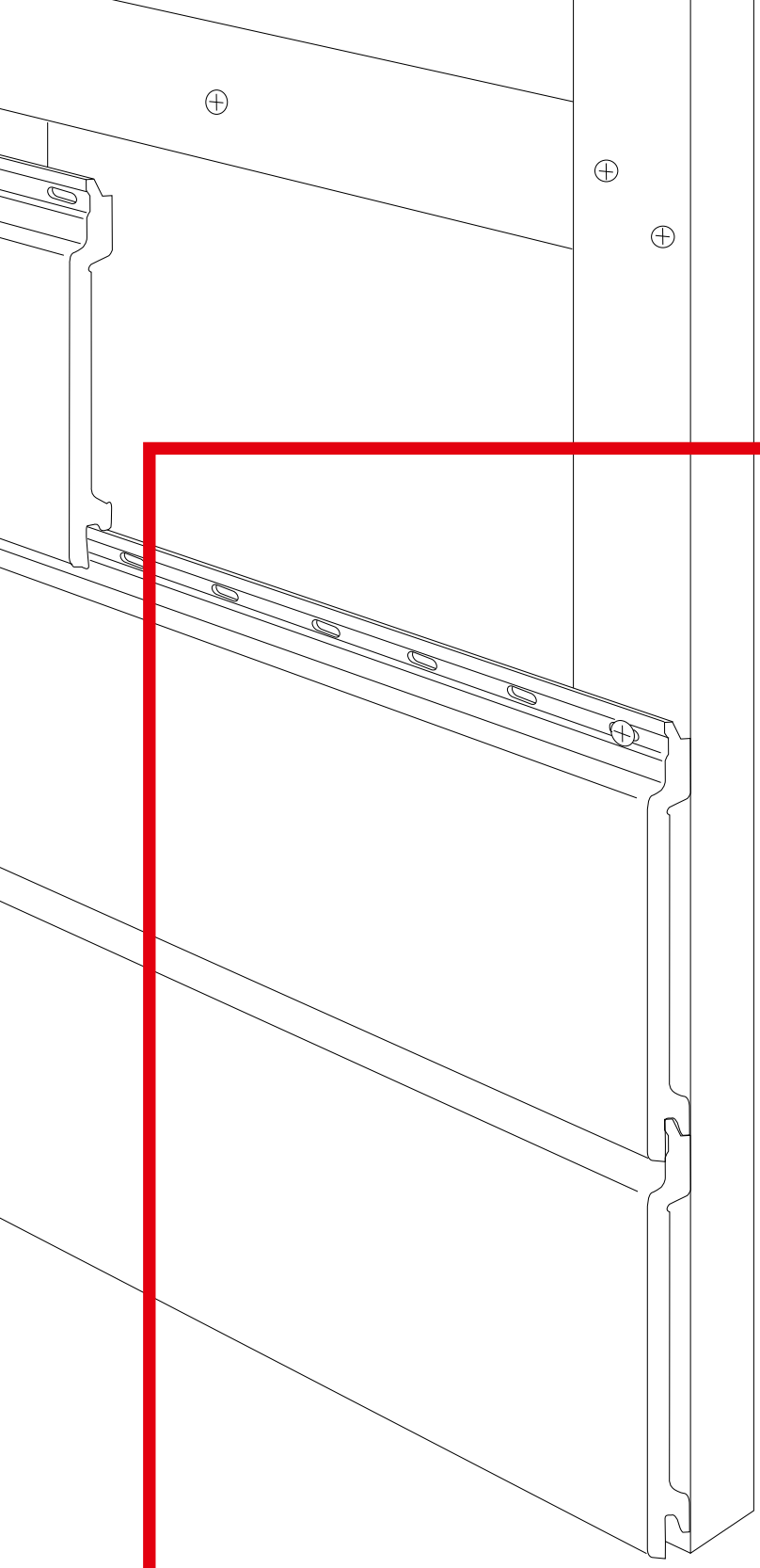
werzalit®
since 1923.



Façade profiles selekta
Installation- & Care Instructions

No warranty in case of non-compliance

Version 08/2021

www.werzalit.com

Façade profiles selekta
Installation- & Care Instructions

Product description – Ecology – Technical data

The WERZALIT façade profiles selekta is available in two versions:

a) selekta - with a chipboard core made from processed wood.
b) selekta al - made of aluminum, powder-coated surface.

The particle wood core consists of processed timber. We use exclusively untreated pulpwood in the form of wood shavings, thinning material and round timber from sustainable, domestic forestry. We do not use imported timber, especially from tropical climates.

The binding agent used is a thermosetting artificial resin with building authority approval for outdoor use.

As a wood preservative, we use an eco-friendly boron-based product with building authority approval that does not contain lindane or PCP.
No isocyanates, phosphates or halogens are added.

Cutting waste may not be burnt in small-scale incinerators (heating boilers, furnaces, fireplaces) according to the German ordinance for small-scale incinerators. There are no restrictions concerning its incineration in industrial wood incineration plants according to Section 4 BImSchV No. 8.2 (German Federal Immission Protection Ordinance). Cutting waste corresponds to category AII of the German ordinance for the disposal of waste wood (Altholz-Verordnung).
Scraps or removed material may in principle be disposed of as household waste or bulky refuse in a landfill or by incineration; however, please observe the requirements of your waste disposal service.

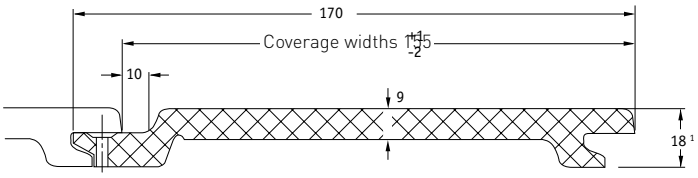
selekta al
The selekta al facade profiles are made of aluminum.
The surfaces are powder-coated with universal decor or with wood decor

Properties	Value-selekta	Value-selekta al	Unit	Test specification
Density	0,08-0,95	2,7	kg/dm³	EN 323
Flexural strength	40-45		N/mm²	EN 310 / EN 438
Elasticity modulus	4000-6000	70000	N/mm²	EN 310 / EN 438
Tensile strength vertical to the surface (transverse tensile strength)	2,0-3,0	215	N/mm²	EN 319
Swelling after storage in water at 20 °C after 2 h after 24 h	 0,3-0,6 5,0-8,0		 % %	 EN 317 EN 317
Moisture content	<10		%	EN 322
Temperature resistance under permanent load under temporary load	 -50 bis +70 +120	 -50 bis +70 +120	 °C °C	
Fire behaviour Standard version Special version	B2 resp. D-s2,d2 B1 resp. B-s3,d0	non-flammable		DIN 4102-1 bzw. DIN EN 13501-1
Längenänderung durch Feucht-/Wärmebelastung [2)]	1-3	1-2	mm/m	
Thermal conductivity λ	0,20	280	W/m·K	DIN 52612
Water vapour permeability diffusion-equivalent air layer thickness	5-15	0	m	DIN 52 615
Cross-cut test [*)]	Gt 0A-Gt 1A			EN ISO 2409
Scratch resistance	3-5,5	0	m	EN 438
Light fastness	Level 8	Level 8	U	EN ISO 105-B02
Chemical resistance	limited resistance	limited resistance		EN 438

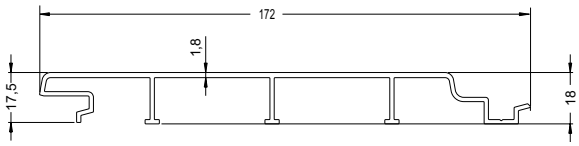
[*)] Gt 0A is the best, Gt 4A is the worst value

General information - profile dimensions - needs assessment - guidelines

Scope
The scope of these installation instructions covers all installation variants of façade cladding, including soffits.



Façade profiles selekta



Façade profiles selekta aluminium

Calculating the required quantity (Calculation values exclude cutting waste)

	Coverage width	Standard lengths	Required quantity/m² Façade profile	Required quantity/m² at max. fastening spacing = 625 mm
selekta	155 mm	5400 mm	6,45 lin. m	10,3 pcs. façade screws 3.5 x 30, stainless steel A2
selekta aluminium	155 mm	5480 mm	6,45 lin. m	10,3 pcs. self-drilling screws 3.9 x 16, stainless steel A2

Attention: selekta and selekta aluminum façade profiles are supplied in raw lengths and must be cut to size on site.

Installation lengths for horizontal laying:
For installation lengths of more than 5400 mm, the profiles must be cut to a maximum length of 2700 mm in order to minimise the expansion joints.

selekta al façade profiles may be installed in full length.

Sub-framework for façade cladding
According to DIN 1055, Part 4, the increased wind suction at the edge areas of the building walls must be considered when planning the sub-framework.

The fastening spacing of the WERZALIT façade profiles must be reduced to max. 300 mm in these areas; additional support battens must be provided as necessary.

The DIN requirements are presented here in a simplified form as a general rule of thumb.

Precise information on this topic must be taken from DIN 1055, Part 4 from March 2006.

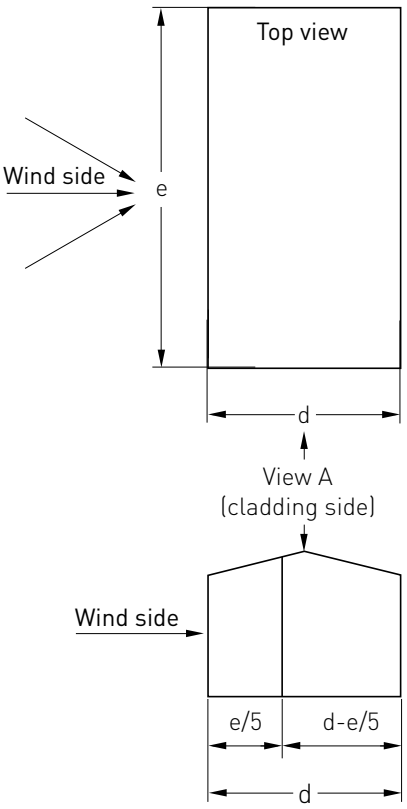
The building dimensions are naturally of primary importance for determining the size of area A with increased wind suction (exterior pressure coefficients).

Example:

Wind side	e = 15 m
Cladding side	d = 8 m
Area with increased suction	A = e/5 = 3 m
Batten spacing in area A	max. 300 mm
"Normal area"	B = d-e/5 = 5 m
Batten spacing in area B	max. 625 mm

If two opposite main wind directions exist (e.g. west/east), area A must naturally also be observed on the other side of the cladding wall.
In the above example, area B would then only be 2 m wide.

Fire protection
Façade profiles are construction materials that must exhibit fire behaviour that meets the requirements of state construction ordinances (German LBO). For buildings up to 22 m in height, low flammability façade cladding of class B1 or normal flammability façade cladding of class B2 can generally be used.
More detailed information can be obtained from your competent construction and fire safety authorities.



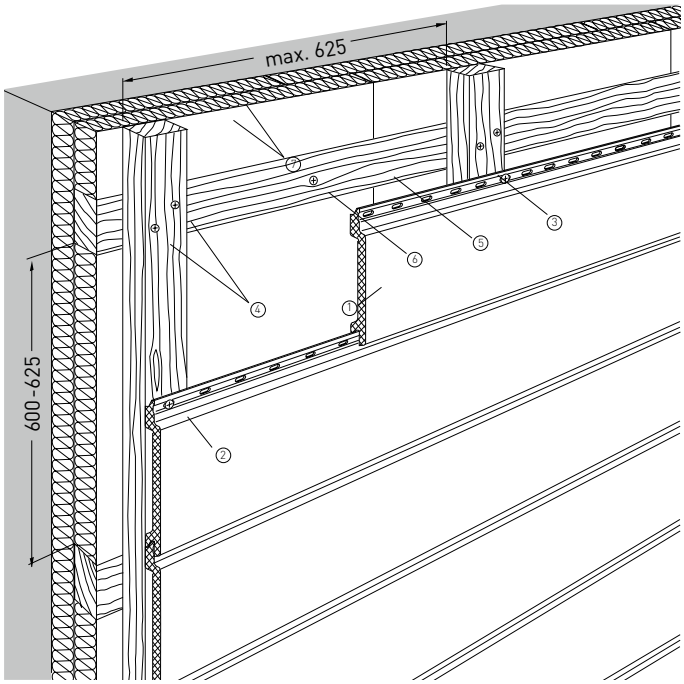
Horizontal installation selekta

A: Sub-framework

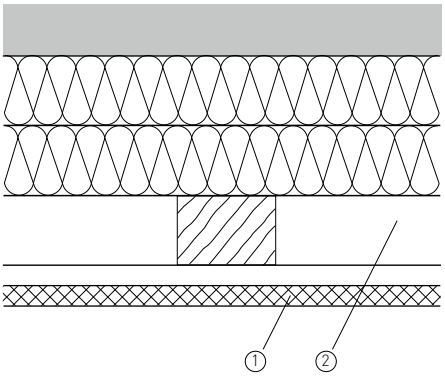
1: selekta façade profile
2: Façade screw 3.5 x 30, stainless steel A2
3: Support batten 30 mm x 50 mm, spacing max. 625 mm
4: Fastening with 2 screws 4 x 60, stainless steel A2
5: Counter batten at least 40 mm x 60 mm
6: Dowel and screw with building authority approval
7: Insulation in two layers, pressure-resistant

B-C: Sections

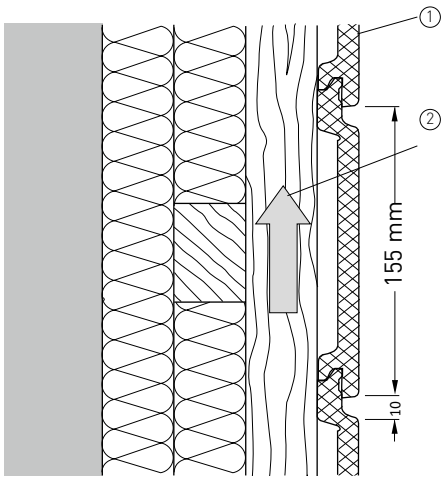
1: selekta façade profile
2: The back ventilation cross-section may not be regularly diminished by battens or other objects. The ventilation inlets and outlets must have consistent widths of at least 20 mm.



Ⓐ Sub-framework



Ⓑ Horizontal section



Ⓒ Vertical section

Horizontal installation selekta

A: Fastening spacing
1: Façade profile selekta
2: Façade screw 3.5 x 30, stainless steel A2
3: Punched holes
4: Support batten 30 mm x 50 mm

X = 3 or more supports, max. 625
X = For only 2 supports, max. 300 mm;
profile excess length max. 100 mm

Fastening materials
Use only WERZALIT façade screws 3.5 x 30, stainless steel A2.
Always centre the screws in the punched fastening holes of the façade profile.

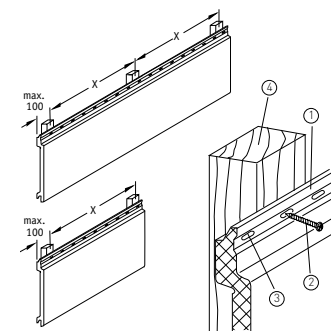
B: Sub-framework alternative
e. g. aluminium and wood sub-frameworks
1: Building wall
2: Thermal insulation
3: Support batten
4: U bracket
Alternatively, other sub-framework systems can also be used, such as for very thick insulation layers.
For example, a company is named below that offers structural systems for façade installation:

BWM DÜBEL + MONTAGETECHNIK GmbH
Ernst Mey-Straße 1
70771 Leinfelden–Echterdingen
Tel.: 0711/90 313-0
Fax: 0711/90 313-20

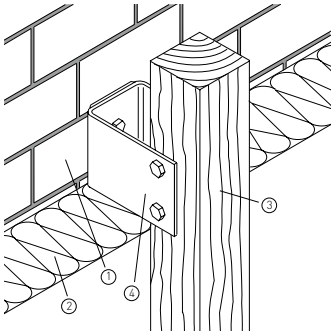
C-D: Start of installation from below
1: selekta façade profile
2: Starting profile N + F, aluminium
3: Starting profile P, aluminium (alternative)
we recommend a max. 20 mm projection of the starting profile P
4: Ventilation profile, plastic
5: Ventilation opening, continuous

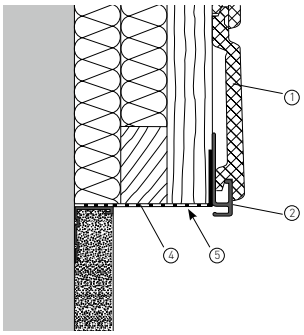
Recommendation:
The wood sub-framework is better protected against splashing water with a max. 20 mm projection of the starting profile P.
Recommendation according to the Technical Guidelines for Carpentry: Profile spacing of 300 mm to smooth floors, 150 mm to a gravel layer and approx. 20 mm to a metal grate.
Avoid designs that allow moisture build-up.

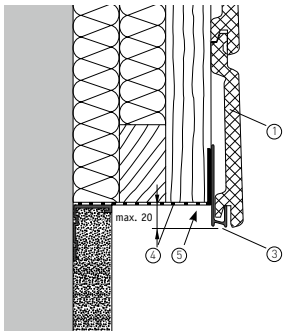
E-F: Internal corner
1: selekta façade profile
2: Jointing tape, plastic
3: Aluminium internal corner profile (alternative)



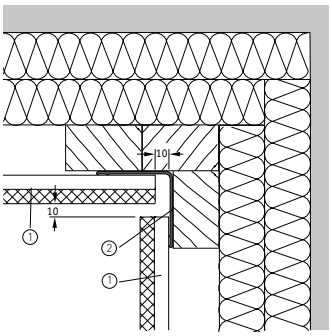
Ⓐ Fastening spacing


Ⓑ Sub-framework, alternative

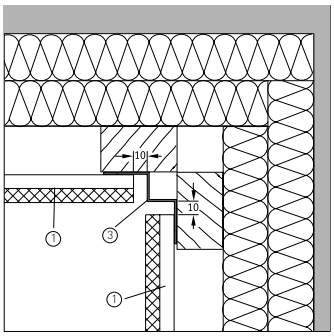

Ⓒ Start of installation



Ⓓ Start of installation, alternative



Ⓔ Internal corner



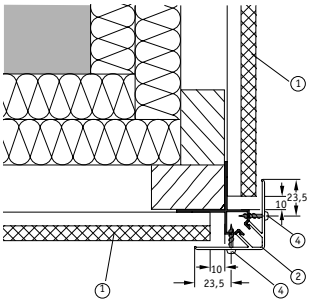
Ⓕ Internal corner, alternative

Horizontal installation selekta

A-B: External corner

1: selekta façade profile
2: External corner C, aluminium (two-part)
3: Aluminium external corner profile (alternative)
4: Cylinder sheet screw 3.9 x 16, stainless steel A2

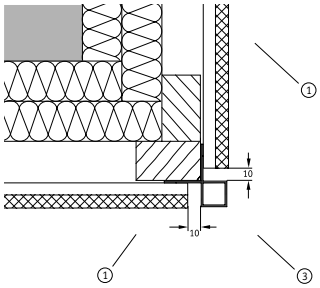
The external corner C consists of lower profile and cover profile. The cover profile is clipped on after installation of the façade profile and secured to each profile bar in the upper area using cylinder sheet screws, pre-drilled to ø 3.2 mm.



Ⓐ External corner

C: Side termination

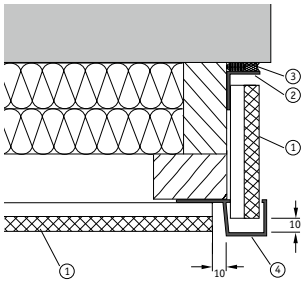
1: selekta façade profile
2: Cover angle 30/20, aluminium
3: Sealing material
4: Connection profile F, aluminium



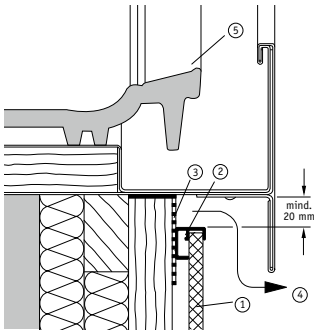
Ⓑ External corner, alternative

D: Roof connection

1: selekta façade profile
2: Edge trim profile 2, aluminium (alternative spacer bar, 9 mm)
3: Ventilation profile, plastic
4: Ventilation opening, continuous
5: Roof tile



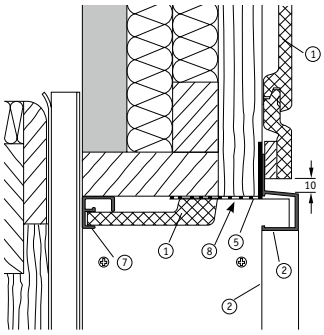
Ⓒ Side termination



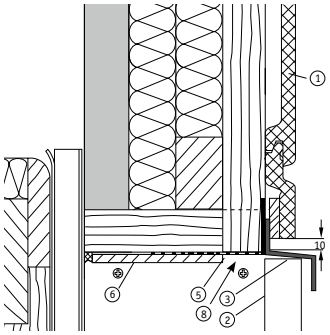
Ⓓ Connection to pitched roof

Horizontal installation selekta

A-B-C: Window lintel connection
1: selekta façade profile
2: Connection profile F, aluminium
3: Z profile 1, aluminium
4: External corner profile 1, plastic (cut off lower leg)
5: Ventilation profile, plastic
6: Cladding panel (alternative)
7: Edge trim profile 2, aluminium
8: Ventilation opening, continuous



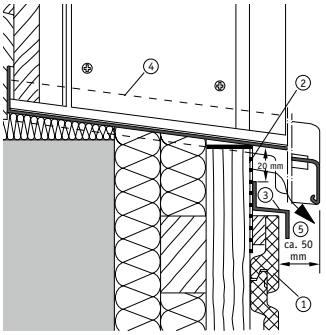
Ⓐ Window lintel connection



Ⓑ Window lintel connection, alternative

A: At the transition between the reveal and the lintel, the connection profiles F are given a mitre cut.

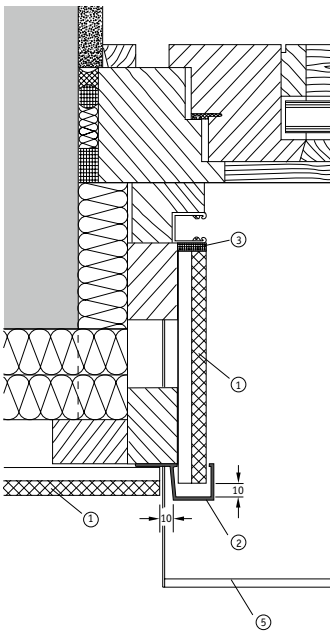
B: The Z profile 1, aluminium, covers the vertical connection profile F.



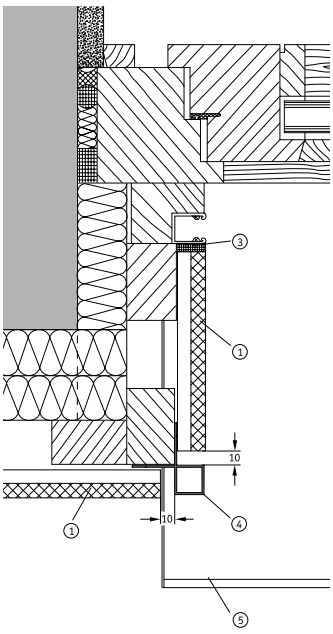
Ⓒ Window parapet connection

C: Window parapet connection
1: selekta façade profile
2: Ventilation profile, plastic
3: Z profile 2, aluminium
4: Outside window sill
5: Ventilation opening, continuous

D-E: Connection of window reveal
1: selekta façade profile
2: Connection profile F, aluminium
3: Sealing material
4: Aluminium external corner profile
5: Outside window sill



Ⓓ Connection of window reveal



Ⓔ Connection of window reveal, alternative

Horizontal installation selekta

Profile butt joints
The profiles can be installed in staggered arrangement or with a continuous vertical joint.

A-B: Staggered arrangement
1: selekta façade profile, cutting length max. 2700 mm
2: Install 2 support battens in each joint area
3: Jointing tape, plastic

B: Profile butt joint without butt connector
Apply jointing tape behind the open expansion joint, joint width 10 mm.

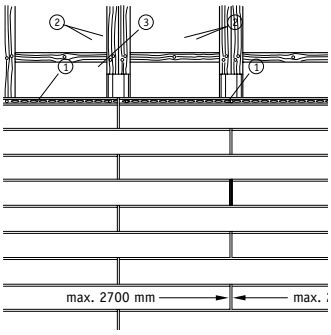
Profile butt joint with butt connector
When installing in a staggered arrangement, the expansion joints can be closed with butt connectors.
Notch the groove lip on the back side of the façade profile.
See images C to E

C-D-E: Butt connector 1/155 (for selekta façade profile 155)
Place the butt connector 1/155 on the lower façade profile and nail it to the support batten. Slide the notched façade profiles from both sides onto the butt connector, expansion joint 10 mm.
1: selekta façade profile
2: Butt connector 1/155, plastic

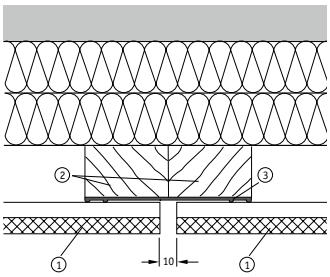
E: Notching of the groove lip
X = 25 mm, for butt connector 1/155

F-G: Continuous vertical profile butt joint
1: selekta façade profile
2: Support batten, width at least 100 mm
3: Jointing tape, plastic
4: Cover profile N + F, aluminium
5: Pan head screw 4 x 40, stainless steel A2

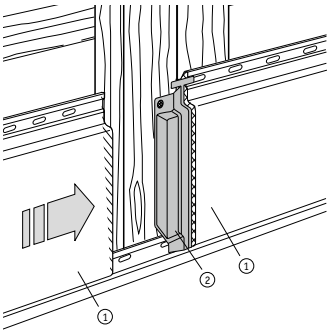
Tip:
Peg a 25 mm wide batten to the sub-framework at the joint location. Position the façade profiles flush on both sides. After installation of the façade profiles, remove the batten and screw on the cover profile N + F in its place.



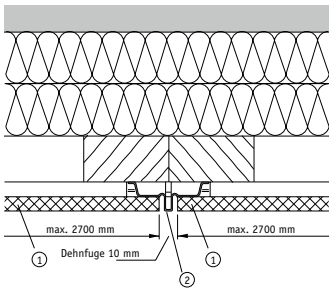
Ⓐ Staggered arrangement



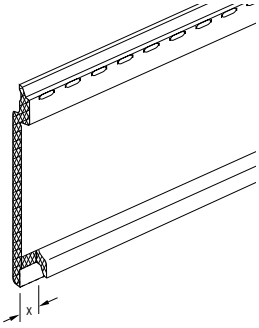
Ⓑ Profile butt joint without butt connector



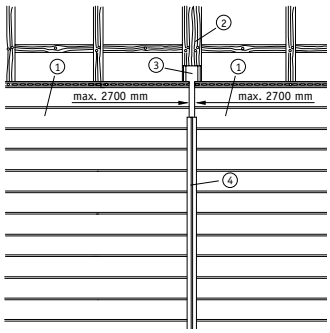
Ⓒ Butt connector 1/155



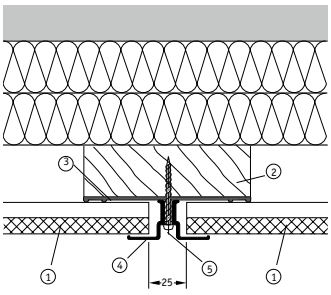
Ⓓ Butt connector 1/155



Ⓔ Notching of the groove lip



Ⓕ Continuous profile butt joint



Ⓖ Cover profile N + F

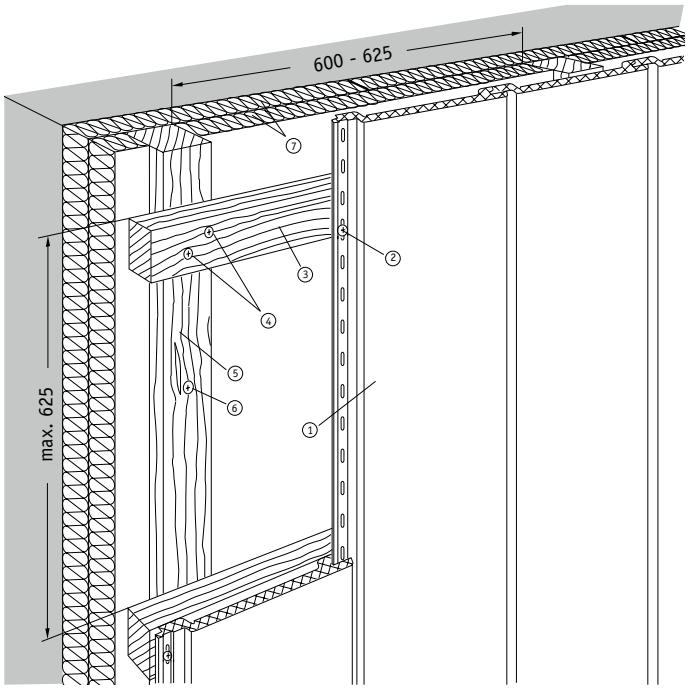
Vertical installation selekta

A: Sub-framework

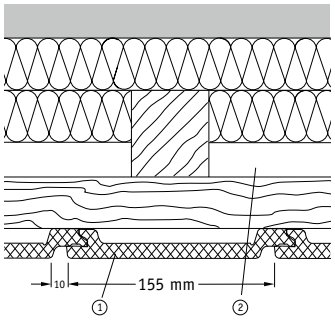
1: selekta façade profile
2: Façade screw 3.5 x 30, stainless steel A2
3: Support batten 30 mm x 50 mm, spacing max. 625 mm
4: Fastening with 2 screws 4 x 60, stainless steel A2
5: Counter batten at least 50 mm x 80 mm, or at least 20 mm higher than second layer of thermal insulation. (See also note for B – C, nr. 2)
6: Dowel and screw with building authority approval
7: Insulation in two layers, pressure-resistant

B-C: Sections

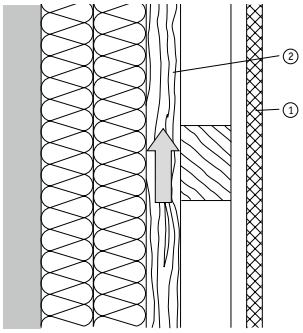
1: selekta façade profile
2: The back ventilation cross-section may not be regularly diminished by battens or other objects. The ventilation inlets and outlets must have consistent widths of at least 20 mm – for B1 (low flammability) at least 40 mm – and max. 50 mm.



Ⓐ Sub-framework



Ⓑ Horizontal section



Ⓒ Vertical section

Vertical installation selekta

A: Fastening spacing
1: selekta façade profile
2: Façade screw 3.5 x 30, stainless steel A2
3: Punched holes
4: Support batten 30 mm x 50 mm

X = 3 or more supports, max. 625 mm
X = For only 2 supports, max. 300 mm;
profile excess length max. 100 mm

Fastening materials
Use only WERZALIT façade screws 3.5 x 30, stainless steel A2. Always centre the screws in the punched fastening holes of the façade profile.

B: Sub-framework
alternative e. g. aluminium and wood sub-frameworks
1: Building wall
2: Thermal insulation, two-layer
3: Support batten
4: U bracket
5: Support batten 30 x 50 mm

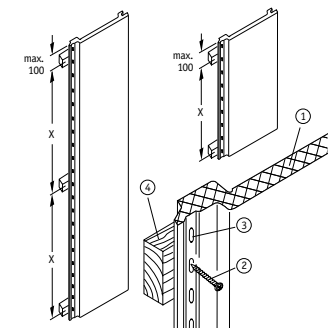
Alternatively, other sub-framework systems can also be used, such as for very thick insulation layers.
For example, a company is named below that offers structural systems for façade installation:
BWM DÜBEL + MONTAGETECHNIK GmbH
Ernst Mey-Straße 1
70771 Leinfelden–Echterdingen
Tel.: 0711/90 313-0, Fax: 0711/90 313-20

C: Start of installation from below
1: selekta façade profile
2: Starting profile, aluminium
3: Ventilation profile, plastic
4: Ventilation opening, continuous

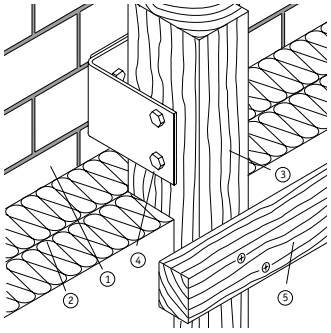
Recommendation:
The wood sub-framework is better protected against splashing water with a max. 20 mm projection of the starting profile P.
Recommendation according to the Technical Guidelines for Carpentry: Profile spacing of 300 mm to smooth floors, 150 mm to a gravel layer and approx. 20 mm to a metal grate.
Avoid designs that allow moisture build-up.

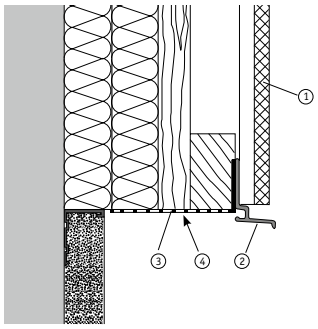
D: Connection to gable roof
1: selekta façade profile
2: Ventilation profile, plastic
3: Ventilation opening, continuous
4: Roof tile

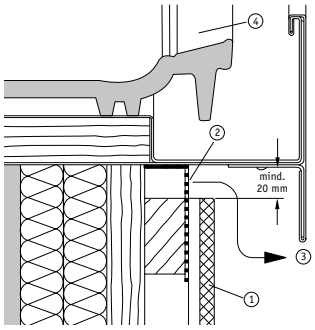
E-F: Internal corner
1: selekta façade profile
2: Spacer bar, 9 mm
3: Aluminium internal corner profile
4: Jointing tape, plastic



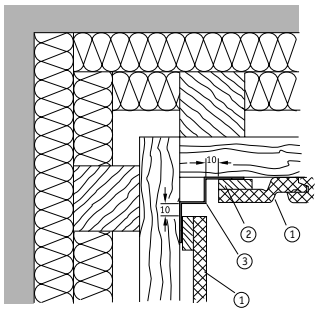
Ⓐ Fastening spacing


Ⓑ Sub-framework, alternative

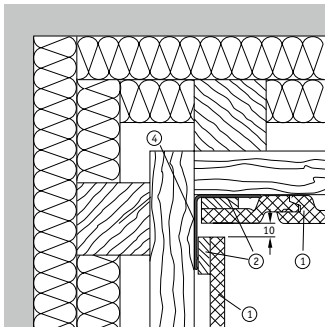

Ⓒ Start of installation



Ⓓ Connection to gable roof



Ⓔ Internal corner

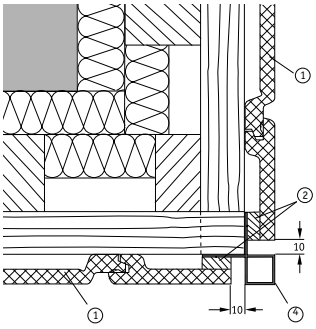


Ⓕ Internal corner, alternative

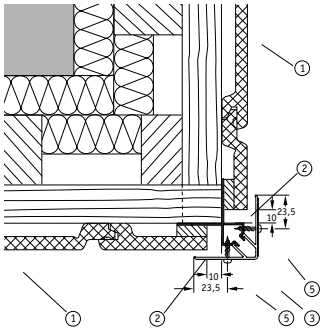
Vertical installation selekta

A-B: External corner
1: selekta façade profile
2: Spacer bar, 9 mm
3: External corner C, aluminium (two-part)
4: Aluminium external corner profile
5: Cylinder sheet screw 3.9 x 16, stainless steel A2

The external corner C consists of lower profile and cover profile. The cover profile is clipped on after installation of the façade profile and secured to each profile bar in the upper area using cylinder sheet screws, pre-drilled to ø 3.2 mm.
.

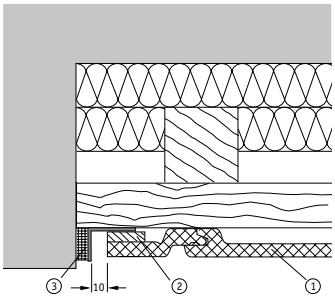


Ⓐ External corner



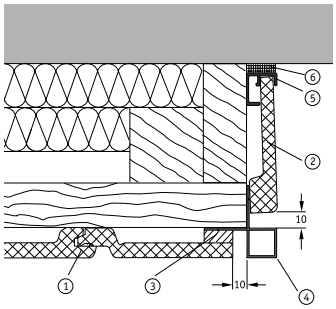
Ⓑ External corner, alternative

C: Connection on the side in a niche
1: selekta façade profile
2: Spacer bar, 7 mm
3: Cover angle 30 x 20 mm, aluminium
4: Sealing material, e. g. Compriband



Ⓒ Connection on the side in a niche

D: Seitlicher Abschluss
1: selekta façade profile
2: selekta façade profile, not grooved
3: Spacer bar, 9 mm, Aluminium external corner profile
4: Alternative external corner C, aluminium
5: Edge trim profile 2, aluminium
6: Sealing material, e. g. Compriband



Ⓓ Side termination

Vertical installation selekta

A-B-C: Window lintel connection

1: selekta façade profile
2: Connection profile F, aluminium
3: Z profile 1, aluminium
4: External corner profile 1, plastic (cut off lower leg)
5: Ventilation profile, plastic
6: Edge trim profile 2, aluminium
7: Spacer bar, 9 mm (alternative to 6)
Ventilation opening, continuous

A: At the transition between the reveal and the lintel, the connection profiles F are given a mitre cut.

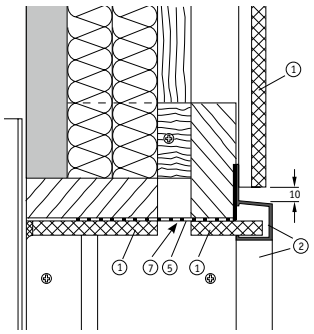
B: The Z profile 1, aluminium, covers the vertical connection profile F.

C: Connection of window parapets

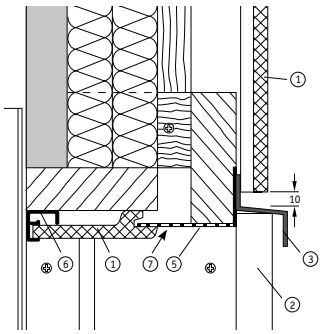
1: selekta façade profile
2: Ventilation profile, plastic
3: Outer window sill
4: Z profile 2, aluminium
5: Ventilation opening, continuous

D-E: Connection of window reveal

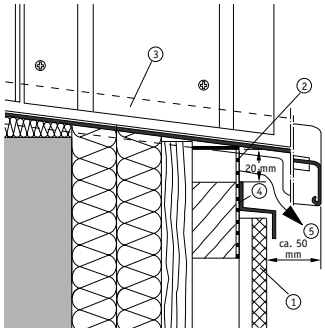
1: selekta façade profile
2: Connection profile F, aluminium
3: Spacer bar, 9 mm
4: Aluminium external corner profile, alternative external corner C, aluminium
5: Sealing material, e. g. Compriband
6: Edge trim profile 2, aluminium
7: Outer window sill



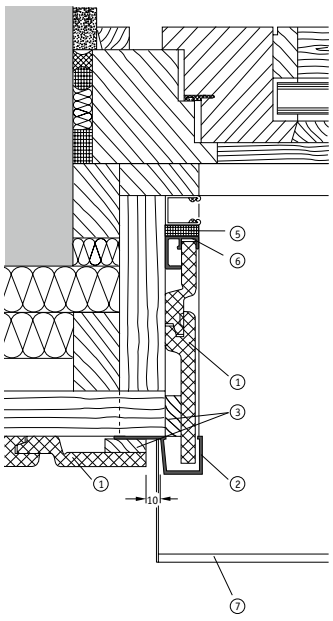
Ⓐ Window lintel connection



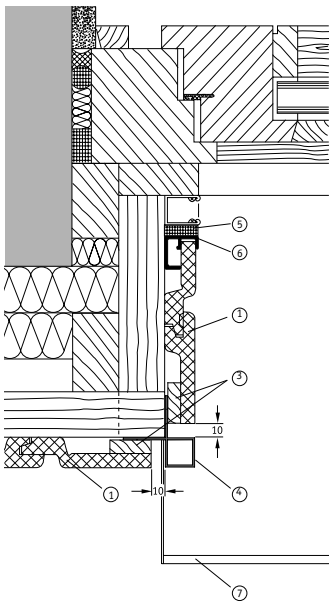
Ⓑ Window lintel connection, alternative



Ⓒ Anschluss Fensterbrüstung



Ⓓ Connection of window reveal



Ⓔ Connection of window reveal, alternative

Butt joints and diagonal installation selekta

A-B: Vertical installation, continuous horizontal butt joint

1: selekta façade profile
2: Install 2 support battens 30 mm x 50 mm,
3: in each joint area
4: Jointing tape, plastic
Z profile 1 or 2, aluminium,
maintain a 10 mm expansion joint at top and bottom

C-D: Vertical / horizontal installation, continuous horizontal butt joint

The sub-framework must be modified at the butt joint according to the installation direction.

Note

Position the vertical support battens at the transition point at least 25 mm above the horizontal counter batten to ensure back ventilation.

1: selekta façade profile
2: Support battens 30 mm x 50 mm
3: Jointing tape, plastic
4: Z profile 1 or 2, aluminium,
maintain 10 mm gap at top and bottom
5: Back ventilation spacing at least 20 mm

E-F: Vertical / horizontal installation, continuous vertical butt joint

1: selekta façade profile
2: Support batten, width at least 100 mm
3: Jointing tape, plastic
4: Cover profile N + F, aluminium
5: Pan head screw 4 x 40, stainless steel A2

Tip:

Peg a 25 mm wide batten to the sub-framework at the joint location. Position the façade profiles flush on both sides. After installation of the façade profiles, remove the batten and screw on the cover profile N + F in its place.

G: Diagonal installation, sub-framework

1: selekta façade profile
2: Counter batten, cross-section depending on thermal insulation + 20 mm for back ventilation spacing (see also note for C – D, no. 5)
3: Approved dowel incl. stainless steel screw A2
4: Support batten 30 mm x 50 mm
5: Fastening with 2 screws 4 x 60, stainless steel A2
6: Façade screw 3.5 x 30, stainless steel A2
7: Layering profile, aluminium, * see also page 9
8: Façade profile end pieces, fasten with at least 2 screws
9: Install corresponding battens

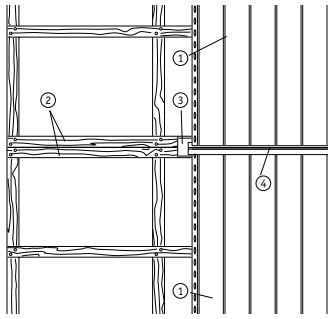
Support batten spacing = LA

Fastening spacing = X (measure parallel to the façade profile)
The spacing of the support battens LA depends on the selected installation angle α and the fastening spacing X.

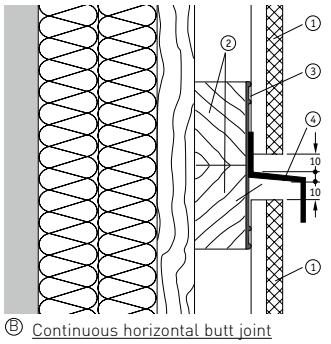
X = 3 or more supports max. 625 mm
X = For only 2 supports max. 300 mm

Examples:

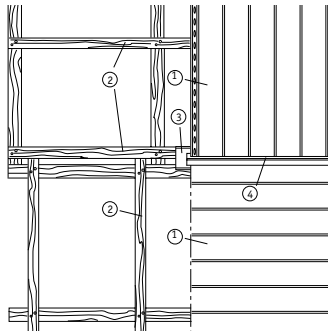
Installation angle α	45° max. mm	60° max. mm
LA = 3 or more supports	440	540
LA = For only 2 supports	210	260



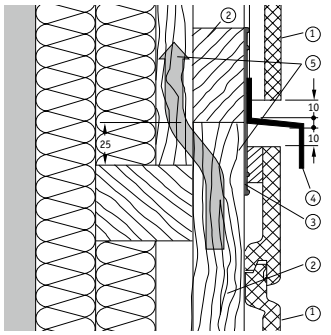
Ⓐ Vertical installation



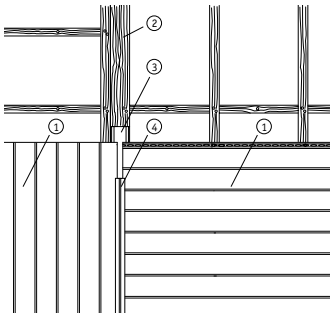
Ⓑ Continuous horizontal butt joint



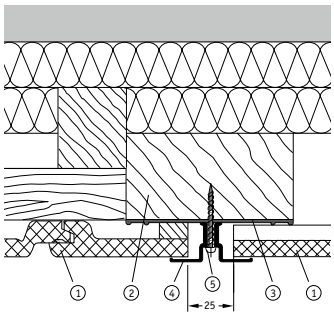
Ⓒ Vertical / horizontal installation



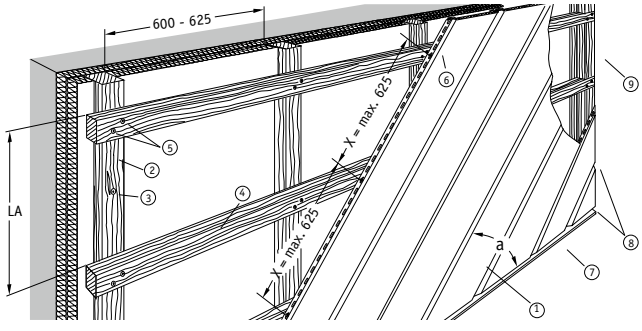
Ⓓ Continuous horizontal butt joint



Ⓔ Vertical / horizontal installation



Ⓕ Continuous vertical butt joint

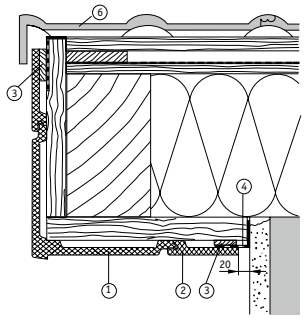


Ⓖ Diagonal installation

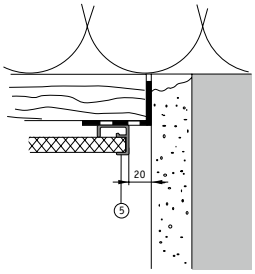
Roof soffits

A-B: Soffit, installed lengthwise

1: Roof connection bracket 155
2: selekta façade profile
3: Spacer bar 9 mm
4: Ventilation profile
5: Alternative edge trim profile 2
6: Roof tile



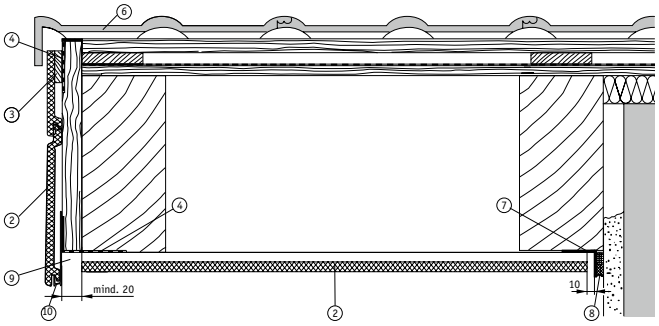
Ⓐ Verge section, soffit installed lengthwise



Ⓑ Wall connection, alternative

C: Soffit, installed crosswise

7: Roof connection bracket 155
8: selekta façade profile
9: Spacer bar 9 mm
10: Ventilation profile, alternative edge trim profile 2
Roof tile

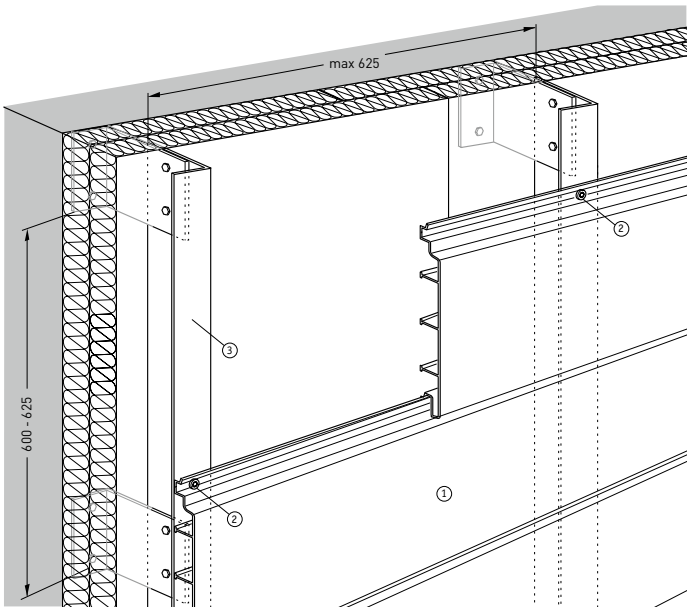


Ⓒ Verge section, soffit installed crosswise

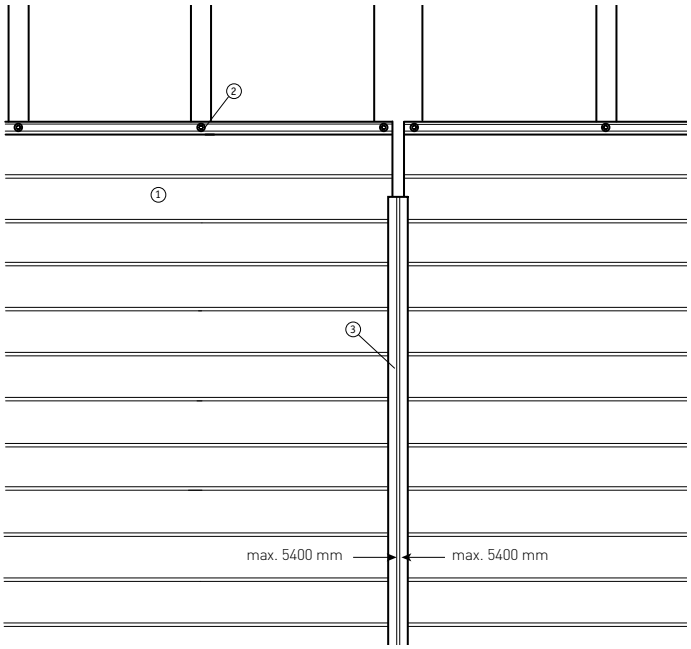
Horizontal installation only for selekta al

Sub-framework
1: selekta al façade profile
2: Self-drilling screw 3.9 x 16, stainless steel A2
3: Aluminium sub-framework, spacing approx. 625 mm, structural analysis to be performed by the customer

Supplier sub-framework
for example
EJOT Baubefestigungen GmbH
Geschäftsbereich Building Fasteners
In der Stockwiese 35
57334 Bad Laasphe, Germany
Ansprechpartner: Herr Christoph Kraemer
E-Mail: CKraemer@ejot.com



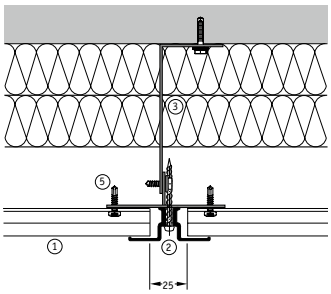
Sub-framework
1: selekta al façade profile
2: Self-drilling screw 3.9 x 16, stainless steel A2
3: Cover profile



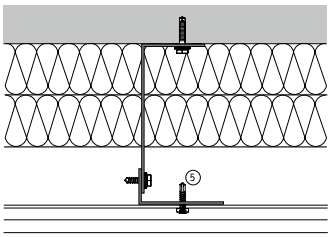
Horizontal installation only for selekta al

Substructure / connections

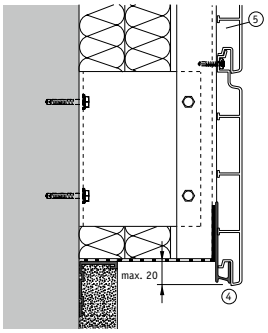
1: selekta al façade profile
2: Cover profile
3: Aluminium sub-framework
4: Starting profile P
5: Self-drilling screw 3.9 x 16, stainless steel A2



Continuous vertical profile joint



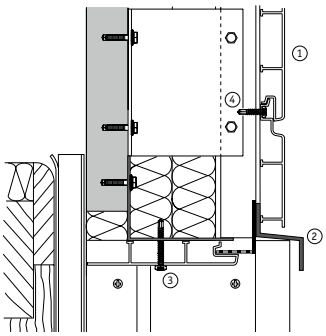
Screw connection to aluminum substructure

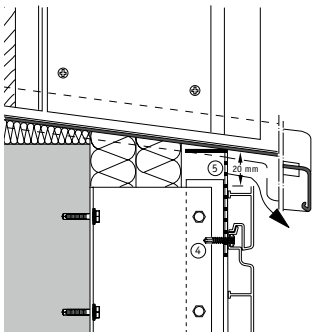


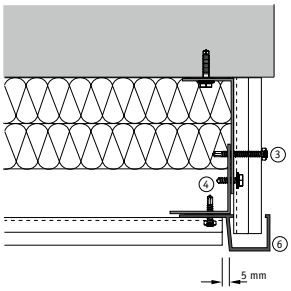
Start of installation

Horizontal installation only for selekta al

1: selekta al façade profile
2: Z-profile
3: Self-drilling screw 3.9 x 16, stainless steel A2
4: Self-drilling screw 3.9 x 16, stainless steel A2
5: Ventilation profile 30/90
6: Connection profile F

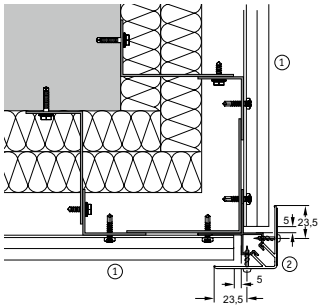


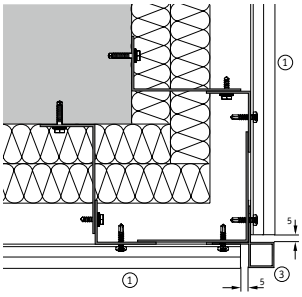


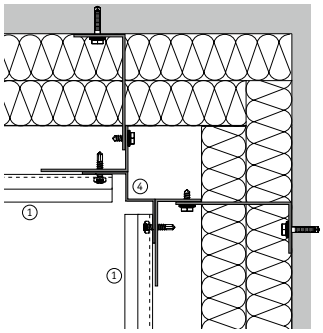


Horizontal installation only for selekta al

1: selekta al façade profile
2: External corner C
3: Aluminium external corner profile
4: Aluminium internal corner profile



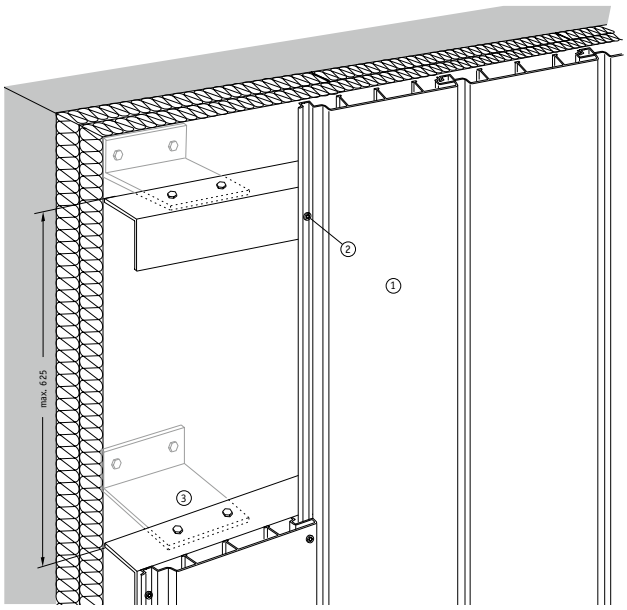


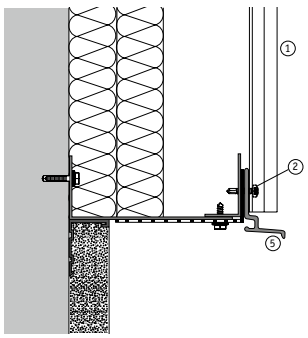


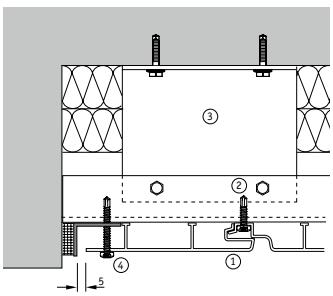
Vertical installation only for selekta al

A: Unterkonstruktion

1: selekta al façade profile
2: Self-drilling screw 3.9 x 16, stainless steel A2
3: Aluminium sub-framework, spacing approx. 625 mm, structural analysis to be performed by the customer
4: Self-drilling screw 3.9 x 16, stainless steel A2
5: Layering profile

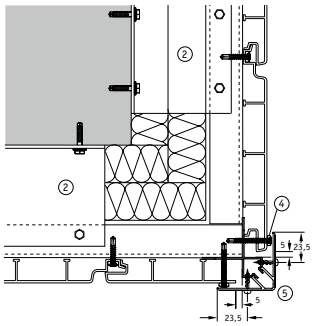


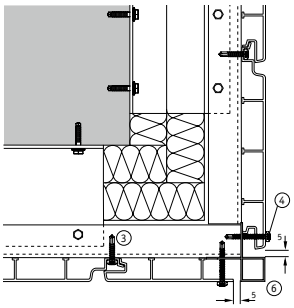


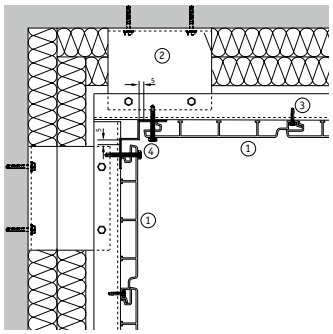


Vertical installation only for selekta al

1: selekta al façade profile
2: Aluminium sub-framework
3: Self-drilling screw 3.9 x 16, stainless steel A2
4: Self-drilling screw 3.9 x 16, stainless steel A2
5: External corner C
6: Aluminium external corner profile
7: Aluminium internal corner profile

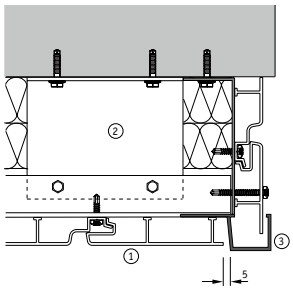


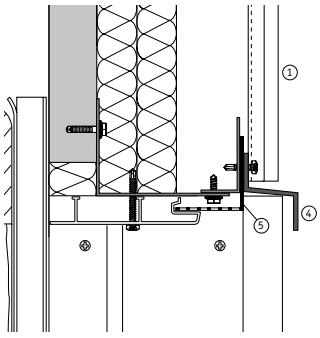


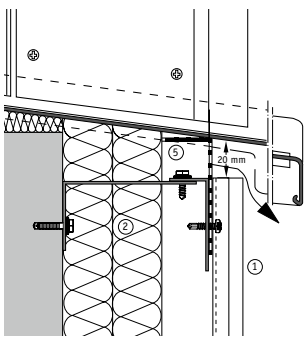


Vertical installation only for selekta al

1: selekta al façade profile
2: Aluminium sub-framework
3: Connection profile F
4: Z-profile
5: Ventilation profile 30/90







General guidelines

Arguments for a back-ventilated curtain cladding of the exterior wall

- Energy savings
- Weather protection
- Attractive design
- Increased building value

Handling
The selekta façade profiles must be stored in their packaging, lying flat and dry until use.

Sawing with power tools
Hard metal saw blade, high number of teeth, (tooth pitch approx. 10 – 15 mm), saw blade with alternate top bevel or hollow-tooth flat-top teeth.

Sawing with hand saws
A well-sharpened and dressed saw with small teeth is sufficient.

Fastening the façade profiles
Only with WERZALIT façade screws 3.5 x 30, stainless steel A2. Centre the fastening screws through the existing punched holes. The screws may only be screwed in until the screw head rests against the surface.

Visible fastening
Only with WERZALIT universal screws H 6 x 45, stainless steel A2 with end caps in matching colour.

Hole ø 9 mm, (due to the possible length change of the façade profiles)

Fastening of all connection profiles
Only with WERZALIT façade screws 3.5 x 30, stainless steel A2.

Please note:
Heavy structures, such as an awning, climbing trellis, etc., may not be fastened directly to the cladding or its sub-framework. Provide separate sub-frameworks.

Sub-framework
Façade profiles are typically fastened to a wood sub-framework. In principle, the following guidelines should be followed for wood sub-frameworks:

a) The wood must correspond to grade S10 (or MS10) according to DIN 4074.
b) The individual cross-section must be selected according to DIN 1052, Part 1.
c) The wood must be protected according to DIN 68800, wood preservation.
d) The sub-framework must be fastened using dowels and screws with building authority approval and in accordance with the instructions of the manufacturer.
e) The support battens must be fastened to the counter battens with at least 2 wood screws, stainless steel A2, per intersection, in a diagonal arrangement.
f) The sub-framework must be level and plumb.
Dimensional tolerances can be found in DIN 18202 Part 2 and Part 4.

Back ventilation
The back ventilation spacing must be at least 20 mm*).

*) For selekta façade profiles in version B1 (low flammability) at least 40 mm!

The back ventilation cross-section may not be regularly diminished by battens or other objects.

The ventilation inlets and outlets must have consistent widths of at least 20 mm – for B1 (low flammability) at least 40 mm – and max. 50 mm.

Sealing cut edges
Cut edges must be sealed free of pores with Werzalit edge sealant.

Exception:
Sufficiently covered cut edges under the roof overhang.

Thermal insulation
The thermal insulation must be dimensioned according to the current German energy conservation regulations (EnEV). The thermal insulation material must be fastened with appropriate hardware, such as insulation pins, in accordance with the instructions of the manufacturer.

The installation must be made windproof to prevent cold air from flowing behind it.

We therefore recommend installing in two layers with overlapping joints. The insulation must be flush against the wall.

Expansion
The length change of the façade profiles is approx. 1 – 3 mm/linear m, depending on moisture and temperature. Expansion joints of 10 mm must be maintained at profile butt joints and profile connections.

Façade profile selekta al

Sawing with power tools
Carbide-tipped saw blade, high number of teeth (tooth pitch approx. 10 - 15 mm), trapezoidal flat tooth, negative tooth position.

Fastening the façade profiles
Only with WERZALIT drilling screws 3.9 x 16 SIT stainless steel A2.

Fastening of all connection profiles
Only with WERZALIT drilling screws 3.9 x 32 mm Torx drive stainless steel A2.

Cutting edges
No warranty will apply if the selekta-al profiles are mounted at a distance of 50 km from any coast.

However, if it comes true, we recommend protecting all cutting edges against filiform corrosion

Care Instructions

WERZALIT facade profiles selekta are easy to care for and do not require any special maintenance or care. However, over time, the surface may need to be cleaned. The following recommendations should be observed for optimal care and cleaning.

Cleaning of light soiling:

Cleaning may only be done with non-abrasive household cleaning agents and a soft brush. Moisturizing dishwashing detergents, e.g. Pril®, must not be used. Essigreiniger® etc. without surfactants can be used. Then rinse with clean water. Under no circumstances care for in direct sunlight.

Cleaning of heavy soiling:

A scouring milk, e.g. Viss®, can be used for heavier soiling. To do this, put the scouring milk on a household sponge (fine side) and rub the profiles evenly over the entire surface with light pressure. Then rinse with clean water.

Under no circumstances may the following cleaning agents be used:

- Abrasive cleaning agents (e.g. scouring powder or milk)
- Solvent-based cleaners (e.g. thinners, benzine, acetone, etc.)
- Abrasive or abrasive cleaning cloths, scouring sponges, steel wool
- When using high-pressure cleaning or steam jet devices, the distance between the nozzle and the WERZALIT surface must be at least 40 cm and the water temperature must be a maximum of 50 ° C. Do not use a dirt blower.

WERZALIT-Polish must not be used, otherwise a new coating with acrylic varnish is no longer possible.

This technical data sheet can and should only provide non-binding advice. We ask that you adapt all information about working with our products to local conditions and the other materials used. For more technical information, please refer to our respective individual brochures and assembly instructions.

If you have additional questions, please contact our Building Service department, E-Mail objektservice@werzalit.com

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