No warranty in case of non-compliance
Façade

Product description – Ecology – Technical data

selekta façade profiles and heritage-selekta façade profiles are identical in terms of their core material and surface texture. However, they are available with different surface coatings.

The particle wood core consists of processed timber. We use exclusively untreated pulpwod 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 thermostetting 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.

For the low flammability version, a mixture of boric acid and borax is used as a fire protection agent.

No isocyanates, phosphates or halogens are added.

Several layers of paper are impregnated with artificial resins for use as a coating. The surface and core are fused together without seams in a single process under the application of pressure and heat.

Colorpan

Base coating of paper impregnated with melamine resin, followed by coloured Colorpan surface coating using a pure, water-based acrylate. The pigments added are free of toxic heavy metals (no lead, chrome or cadmium).

Dekopan Plus

Multi-layer coating, printed or dyed; transparent, weather-resistant surface coating of the decor side. Rear side brown, no colour options.

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 façade profiles are made of aluminium. The surface coating can be universal, powder coating or decorative coating (wood decor).

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Unit</th>
<th>Test specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Density</td>
<td>800 – 950</td>
<td>kg/m³</td>
<td>EN 323</td>
</tr>
<tr>
<td>2. Flexural strength</td>
<td>40 – 45</td>
<td>N/mm²</td>
<td>EN 310/EN 438</td>
</tr>
<tr>
<td>3. Elasticity modulus</td>
<td>4000 – 6000</td>
<td>N/mm²</td>
<td>EN 310/EN 438</td>
</tr>
<tr>
<td>4. Tensile strength vertical to the surface (transverse tensile strength)</td>
<td>2.0 – 3.0</td>
<td>N/mm²</td>
<td>EN 319</td>
</tr>
<tr>
<td>5. Tensile strength</td>
<td>-</td>
<td>N/mm²</td>
<td>EN ISO 527/EN 438</td>
</tr>
<tr>
<td>6. Screw withdrawal strength</td>
<td>800 – 1300</td>
<td>N/mm²</td>
<td>WERZALIT TEST STANDARD</td>
</tr>
<tr>
<td>7. Swelling after storage in water at 20 °C</td>
<td>0.3 – 0.6</td>
<td>%</td>
<td>DIN 317</td>
</tr>
<tr>
<td>after 2 h</td>
<td>3.0 – 5.0</td>
<td>%</td>
<td>DIN 317</td>
</tr>
<tr>
<td>after 24 h</td>
<td>0.0</td>
<td>%</td>
<td>VHI quality seal/ WERZALIT TEST STANDARD</td>
</tr>
<tr>
<td>after 5 h</td>
<td>0.0</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>8. Moisture content</td>
<td>5 – 10</td>
<td>%</td>
<td>EN 322</td>
</tr>
<tr>
<td>9. Temperature resistance under permanent load</td>
<td>-50 to +70</td>
<td>°C</td>
<td>WERZALIT TEST STANDARD</td>
</tr>
<tr>
<td>temporary load</td>
<td>+120</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>10. Fire behaviour</td>
<td>non-flammable</td>
<td></td>
<td>DIN 4102-1 resp. DIN EN 13501-1</td>
</tr>
<tr>
<td>Standard version</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special version</td>
<td>B2 resp. B-s2,d2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 resp. B-s3,d0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Length change due to moisture/ heat exposure</td>
<td>1 – 3</td>
<td>mm/m</td>
<td>WERZALIT TEST STANDARD</td>
</tr>
<tr>
<td>12. Thermal conductivity λ</td>
<td>0.20</td>
<td>W/m·K</td>
<td>DIN 52 612</td>
</tr>
<tr>
<td>13. Water vapour permeability</td>
<td>5 – 15</td>
<td>diffusion-equivalent air layer thickness</td>
<td>DIN 52 615</td>
</tr>
<tr>
<td>14. Cross-cut test</td>
<td>Gt 0A – Gt 1A</td>
<td></td>
<td>DIN 4102-1 resp. DIN EN 13501-1</td>
</tr>
<tr>
<td>15. Scratch resistance</td>
<td>0.5 – 1.5</td>
<td>N</td>
<td>EN 322</td>
</tr>
<tr>
<td>16. Brinell hardness</td>
<td>0.5 – 1.5</td>
<td>N/mm²</td>
<td>WERZALIT TEST STANDARD</td>
</tr>
<tr>
<td>17. Abrasion behaviour</td>
<td>U</td>
<td></td>
<td>EN 322</td>
</tr>
<tr>
<td>18. Light fastness</td>
<td>Level 8</td>
<td></td>
<td>EN ISO 105-B02</td>
</tr>
<tr>
<td>19. Chemical resistance</td>
<td>limited resistance</td>
<td></td>
<td>EN 322</td>
</tr>
<tr>
<td>20. Cigarette burn resistance</td>
<td>resistant to burns</td>
<td></td>
<td>as for EN 322</td>
</tr>
<tr>
<td>21. Colour deviation</td>
<td>Δ E = 1</td>
<td></td>
<td>DIN 5033</td>
</tr>
<tr>
<td>22. Impact load</td>
<td>impact resistant</td>
<td></td>
<td>WERZALIT TEST STANDARD/ETB Directive</td>
</tr>
</tbody>
</table>

1) 4 mm particle board screw, using a hole of 3 mm diameter, 10 mm deep
2) Maximum expected length change under extreme climate fluctuations
3) Gt 0A is the best, Gt 4A is the worst value
4) 1000 N, 15 s application time, (force/area)
5) With measurement geometry 0°/45°, standard illuminant “C”
* applies only to selekta and heritage-selekta
Façade

General information – Profile dimensions – Calculating the required quantity – Guidelines

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

Calculating the required quantity (Calculation values exclude cutting waste)

<table>
<thead>
<tr>
<th>Colorpan/ Dekoplan plus</th>
<th>Coverage/ Standard</th>
<th>Required quantity/m²</th>
<th>Required quantity/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>width/ lengths</td>
<td></td>
<td>at max. fastening spacing = 625 mm</td>
</tr>
<tr>
<td>heritage-selekta</td>
<td>155 mm/ 2690 mm</td>
<td>6.45 linear m</td>
<td>10.3 façade screws 3.5 x 30, stainless steel A2</td>
</tr>
<tr>
<td>selekta</td>
<td>155 mm/ 5400 mm</td>
<td>6.45 linear m</td>
<td>10.3 façade screws 3.5 x 30, stainless steel A2</td>
</tr>
<tr>
<td>selekta al</td>
<td>155 mm/ 5480 mm</td>
<td>6.45 linear m</td>
<td>10.3 self-drilling screws 3.9 x 16, stainless steel A2</td>
</tr>
</tbody>
</table>

Note!
Dekoplan plus wood decors are equivalent to natural wood surfaces, meaning that different grain textures are possible within a single shipment (plain and/or mottled). Unfortunately, sorting at the factory is not possible! In order to obtain a uniform overall finish, we recommend considering this fact and, for example, laying out the façade profiles before starting with the installation.

Installation lengths
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.

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.
**Sub-framework**

1. selekta/heritage-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

**Sections**

1. selekta/heritage-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.
Horizontal installation

**Fastening spacing**

1. selekta/heritage-selekta façade profile
2. Façade screw 3.5 x 30, stainless steel A2
3. Punched holes
4. Support batten 30 mm x 50 mm

\[ X = 3 \text{ or more supports, max. 625 mm} \]
\[ X = \text{for only 2 supports, max. 300 mm; profile excess length max. 100 mm} \]

**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.

**Sub-framework alternative**

- e.g. aluminium and wood sub-frameworks
- Building wall
- Thermal insulation
- Support batten
- 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

**Start of installation from below**

1. selekta/heritage-selekta façade profile
2. Starting profile T + G, 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.

**Internal corner**

1. selekta/heritage-selekta façade profile
2. Jointing tape, plastic
3. Aluminium internal corner profile (alternative)
**Façade**

**Horizontal installation**

**A - B External corner**
1. selekta/heritage-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.

**C Side termination**
1. selekta/heritage-selekta façade profile
2. Cover angle 30/20, aluminium
3. Sealing material
4. Connection profile F, aluminium

**D Roof connection**
1. selekta/heritage-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

---

**Diagram A**
- External corner
- selekta/heritage-selekta façade profile
- External corner C, aluminium (two-part)
- Aluminium external corner profile (alternative)
- Cylinder sheet screw 3.9 x 16, stainless steel A2

**Diagram B**
- External corner, alternative
- selekta/heritage-selekta façade profile
- Cover angle 30/20, aluminium
- Sealing material
- Connection profile F, aluminium

**Diagram C**
- Side termination
- selekta/heritage-selekta façade profile
- Cover angle 30/20, aluminium
- Sealing material
- Connection profile F, aluminium

**Diagram D**
- Connection to pitched roof
- selekta/heritage-selekta façade profile
- Edge trim profile 2, aluminium (alternative spacer bar, 9 mm)
- Ventilation profile, plastic
- Ventilation opening, continuous
- Roof tile

---

**Notes**
- At least 20 mm
Window lintel connection

A - B - C
1. selekta/heritage-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

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 sill connection

C
1. selekta/heritage-selekta façade profile
2. Ventilation profile, plastic
3. Z profile 2, aluminium
4. Outer window sill
5. Ventilation opening, continuous

Window reveal connection

D - E
1. selekta/heritage-selekta façade profile
2. Connection profile F, aluminium
3. Sealing material
4. Aluminium external corner profile
5. Outer window sill
Profile butt joints
The profiles can be installed in staggered arrangement or with a continuous vertical joint.

- **Staggered arrangement**
  1. seleka façade profiles, cutting length max. 2700 mm
  2. Install 2 support battens in each joint area
  3. Jointing tape, plastic

- **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

- **Butt connector 1/155**
  (for seleka 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. seleka façade profile
  2. Butt connector 1/155, plastic

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

- **Continuous vertical profile butt joint**
  seleka façade profile
  1. Support batten, width at least 100 mm
  2. Jointing tape, plastic
  3. Cover profile T + G, aluminium
  4. 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 T + G in its place.
Profile butt joints
The profiles are installed in a staggered arrangement. There is no need to ensure an orderly joint arrangement.

No battens are required under the joints.

A Staggered arrangement

1 heritage-selekta façade profile
2 No support batten is required in the joint area
3 Minimum length of the first profile: 675 mm
Façade
Vertical installation only for 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, no. ③)
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.

A  Sub-framework
B  Horizontal section
C  Vertical section
Fastening spacing

- selekta façade profile
- Façade screw 3.5 x 30, stainless steel A2
- Punch holes
- 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.

Sub-frameworks – alternatives

- Building wall
- Thermal insulation, two layers
- Counter batten
- U bracket
- Support batten 30 mm 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 + MONTAGTECHNIK GmbH
Ernst Mey-Straße 1
70771 Leinfelden–Echterdingen
Tel.: 0711/90 313-0
Fax: 0711/90 313-20

Start of installation from below

- selekta façade profile
- Layering profile, aluminium
- Ventilation profile, plastic
- 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.

Connection to pitched roof

- selekta façade profile
- Ventilation profile, plastic
- Ventilation opening, continuous
- Roof tile

Internal corner

- selekta façade profile
- Spacer bar, 9 mm
- Aluminium internal corner profile
- Jointing tape, plastic
Façade

Vertical installation only for selekta

A - B  External corner
① selekta façade profile
② Spacer bar, 9 mm
③ External corner C (two-part), aluminium
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.

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

D  Side termination
① selekta façade profile
② selekta façade profile, not grooved
③ Spacer bar, 9 mm
④ Aluminium external corner profile, alternative external corner C, aluminium
⑤ Edge trim profile 2, aluminium
⑥ Sealing material, e.g. Compriband
Façade

Vertical installation only for selekta

A - B - C Window lintel connection

1. seleka 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 5)
8. Ventilation opening, continuous

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 Window sill connection

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

D - E Window reveal connection

1. seleka 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

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 Window sill connection
Façade

**Butt joints and diagonal installation**

### A - B Vertical installation, continuous horizontal butt joint

1. selekta façade profile
2. Install 2 support battens 30 mm x 50 mm in each joint area
3. Jointing tape, plastic
4. 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*)

*) For selekta façade profiles in version B1 (low flammability) at least 40 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 T + G, 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 T + G 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. 1 )
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 A
8. Façade profile end pieces, fasten with at least 2 screws
9. Install corresponding battens

**Support batten spacing = BS**

**Fastening spacing = X** (measure parallel to the façade profile)

The spacing of the support battens BS depends on the selected installation angle α and the fastening spacing X

\[
X = \begin{cases} 
3 \text{ or more supports, max. } 625 \text{ mm} \\
\text{For only 2 supports, max. } 300 \text{ mm}
\end{cases}
\]

**Examples:**

<table>
<thead>
<tr>
<th>Installation angle α</th>
<th>BS (max. mm)</th>
<th>X (max. mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45°</td>
<td>440</td>
<td>540</td>
</tr>
<tr>
<td>60°</td>
<td>210</td>
<td>260</td>
</tr>
</tbody>
</table>

LA 600 - 625

---

**Diagram:**

- **A** Vertical installation
- **B** Continuous horizontal butt joint
- **C** Vertical/horizontal installation
- **D** Continuous horizontal butt joint
- **E** Vertical/horizontal installation
- **F** Continuous vertical butt joint
- **G** Diagonal installation

---

**werzalit:**
Façade

A - B  Soffit, installed lengthwise
1. Universal angle 155
2. selekta / heritage-selekta façade profile
3. Spacer bar 9 mm
4. Ventilation profile
5. Alternative edge trim profile 2
6. Roof tile

C  Soffit, installed crosswise
7. Cover angle 30/20, aluminium
8. Sealing material
9. Ventilation opening, continuous
10. Starting profile P

A  Verge section, soffit installed lengthwise
B  Wall connection, alternative
C  Verge section, soffit installed crosswise
Horizontally installed only for selekta al façade profiles

1. selekta al façade profiles
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
NFT-SL Fassadentechnik GmbH
Weinbergstr. 2
D-76889 Kapellen-Drusweiler
Tel. 06343/7003-0
Fax 06343/7003-20
Horizontal installation only for selekta al façade profiles

1. selekta al façade profiles
2. Cover profile
3. Aluminium sub-framework
4. Starting profile P
5. Self-drilling screw 3.9 x 16, stainless steel A2
1. selekta al façade profiles
2. Z profile
3. Self-drilling screw 3.9 x 32, stainless steel A2
4. Self-drilling screw 3.9 x 16, stainless steel A2
5. Ventilation profile 30/90
6. Connection profile F
Façade

Horizontal installation only for selekta al façade profiles

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

werzalit.
Façade

Vertical installation only for selektal

A Sub-framework

1 selektal façade profiles
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 32, stainless steel A2
5 Layering profile
Façade

Vertical installation only for seleka al

1. seleka al façade profiles
2. Aluminium sub-framework
3. Self-drilling screw 3.9 x 16, stainless steel A2
4. Self-drilling screw 3.9 x 32, stainless steel A2
5. External corner C
6. Aluminium external corner profile
7. Aluminium internal corner profile
Façade

Vertical installation only for selekta al

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

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.

selekta al

Sawing with power tools

Hard metal saw blade, high number of teeth (tooth pitch approx. 10 – 15 mm), trapezoidal flat teeth, negative rake.

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 Torx drive stainless steel A2.

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.

If you have additional questions, please contact our Building Service department. Subject to changes due to technical improvements.

All rights reserved. All texts, images, graphics and other information published here are under copyright by WERZALIT Vertriebs-GmbH and/or protected by other laws for the protection of intellectual property. All forms of reproduction, provision of access to third parties, distribution, storage, modification and republishing of the content for commercial purposes are expressly prohibited without written permission from WERZALIT Vertriebs-GmbH.

The colours/decors shown in this brochure can differ from the original tones due to printing limitations.