Construction Accessories – Fastening Technology
Approved systems for projecting installation

Edition 01/2016

- System 1: GU supporting consoles and GU retaining angles
- System 2: GU frame for projecting installation
The energy balance of properties improves significantly when they are covered in a warm insulating layer. However, insulation not only changes the heat balance of a building, but also its structure: suddenly, the installation levels of windows and balcony-doors are no longer in masonry, but in the area of the insulation material. This cannot carry and transfer the loads.

Only a projecting installation with elements suitable for it solves the problem reliably: The construction carries the forces and transfers them into the masonry, so that the reveal is not loaded impermissibly due to tension or compression. Installation systems from the GU Group perform this demanding task particularly well. We have developed two systems for the projecting installation that are suitable for all profile depths and that can be used optimally with windows and balcony-doors made of PVC, timber, timber/aluminium, and aluminium profiles.
The standard solution

System 1: GU supporting consoles and GU retaining angles

The first system has been tested for safe transfer of loads by ift Rosenheim, as well as for heavy structural elements, and consists of the GU supporting consoles and GU retaining angles: They give windows and balcony-doors stability up to 250 kg. And because security is a top priority, the system has also been tested according to EN 1627 for their reliability in terms of burglar protection in resistance classes up to RC2. When it comes to installation, our innovative consoles offer the advantages of simple fixing to vertical masonry, variable fixing options as well as their outstanding connection to the composite system of thermal insulation.

The premium solution

System 2: GU frame for projecting installation

The GU frame for projecting installation and its components is our second system for a projecting installation. With the passive house certified door frame, structural elements can be mounted in the insulation plane without thermal bridges occurring. Even the installation of large and heavy windows or balcony-doors is possible with our frame for projecting installation, because it is tested for a load absorption of up to 579 kg. The door frame is also approved for use as burglar protection in accordance with EN 1627 and RC 2 and it has high performance in sound insulation – these are strengths that are increasingly gaining importance. As a genuine all-rounder, the GU frame for projecting installation proves itself, for example, when used in double-layer clinker facades: here it satisfies the demands for load absorption, thermal protection, windproofness and sound insulation with maximum efficiency.
System 1: GU supporting consoles and GU retaining angles
The standard solution

Professional installation of window elements
Advantages at a glance

- Optimum connection for exterior insulation finishing system (EIFS)
- High load-bearing capacity up to 250 kg (ift-tested)
- System tested for burglar protection up to RC 2 (according to EN 1627)
- Straightforward installation in masonry with range of fixing options
- All window installation fixing points as prescribed by the recognized rules of engineering can be achieved
- Installation not subject to tension and compression in the area of the reveal
- Suitable for all profile depths as well as frame materials made of timber, PVC and aluminium
**Product description**

The left supporting console belongs to the lower fastening base. Due to their large supporting surface, they can absorb the load of the elements optimally.

For the quantity required, refer to our processing instructions on page 10

**Order information**

<table>
<thead>
<tr>
<th>Designation</th>
<th>PU</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU supporting console, left-hand</td>
<td>1 pc</td>
<td>H-01515-00-L-0</td>
</tr>
</tbody>
</table>
GU supporting console, right-hand

Product description
The right supporting console belongs to the lower fastening base. Due to their large supporting surface, they can absorb the load of the elements optimally.

For the quantity required, refer to our processing instructions on page 10

Order information

<table>
<thead>
<tr>
<th>Designation</th>
<th>PU</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU supporting console, right-hand</td>
<td>1 pc</td>
<td>H-01515-00-R-0</td>
</tr>
</tbody>
</table>
Product description

The centre supporting console is used for optimum lower load absorption of wide and coupled elements.

For the quantity required, refer to our processing instructions on page 10.

Order information

<table>
<thead>
<tr>
<th>Designation</th>
<th>PU</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU supporting console, centred</td>
<td>1 pc</td>
<td>H-01516-00-0-0</td>
</tr>
</tbody>
</table>
GU retaining angle

Product description

The retaining angles are used especially for fixing points on the sides and top.

For the quantity required, refer to our processing instructions on page 10

<table>
<thead>
<tr>
<th>Designation</th>
<th>PU</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU retaining angle</td>
<td>1 pc</td>
<td>H-01517-00-0-0</td>
</tr>
</tbody>
</table>
The GU supporting consoles on the left and right and, where appropriate, the GU supporting console at the centre are aligned and fixed to the masonry in advance. The window or balcony-door frame is next, which is already prepared with the interior window sealing sheet. In addition to the GU supporting consoles, it is fixed to the GU retaining angles on the masonry. The oblong holes in the supporting consoles and retaining angles allow for quick and easy adjustment to the masonry. The GU retaining angles are critical for optimum installation of the component, because they absorb dead loads, live loads and wind loads.

In the next step, the interior window sealing sheet is connected or bonded to the masonry.

**Number of required GU support consoles and GU retaining angles**

In principle, a right and a left GU supporting console should be used for window elements and only fixed with suitable screws and dowels. The installation material must be aligned to the surrounding wall system and to the edge distance.

The correct fixing points and the number of fasteners are important when installing windows and balcony-doors. The first fixing point should not exceed 100 to 150 mm from the frame inside corner. The distance between retaining angles may be max. 800 mm with timber or aluminium profiles and max. 700 mm with PVC profiles. The individual distance to be chosen and thus the required number of GU retaining angles is calculated from the size of the window element to be fitted and from the dead loads, live loads and wind loads acting on it.

**Maximum 150 mm from the element corner**

The maximum spacing* between retaining angles:
- For PVC profiles \( \leq 700 \) mm
- For timber or aluminium profiles \( \leq 800 \) mm

* = Spacing of the fixing points and the number of GU retaining angles must be matched to the active forces and live loads (for example, dead weight, additional load, vertical and horizontal imposed load and wind load) acting on the window or balcony-door.
Proven system solution from Gretsch-Unitas
GU supporting consoles and GU retaining angles

Component testing for load-bearing capacity
RC 2 approval in accordance with EN 1627
System 2: GU frame for projecting installation
The premium solution

The all-rounder with passive-house approval
Advantages at a glance

- Optimal connection in the insulation plane (without thermal bridges)
- High load-bearing capacity up to 579 kilograms (tested system)
- System tested for burglar protection up to RC 2 (according to EN 1627)
- No-fuss efficient installation on masonry using only three products
- All window installation fixing points as prescribed by the recognized rules of engineering can be achieved
- The edge distance of 70 mm is be complied with when choosing a fixing point
- Suitable for all profile depths as well as all frame materials made of timber, timber/aluminium, PVC, steel and aluminium
GU frame for projecting installation

Product description
The fully installed GU frame for projecting installation forms a frame around the window opening. As a result, the window can be installed in precisely the same way as a conventional window is installed in masonry. The compelling product range of the GU Group with its six different profiles has the right solution for any installation situation.

Product characteristics
- Effective sound insulation 46 dB
- Approved for passive houses $\Psi = 0.01 \text{ W} \cdot \text{m}^{-2} \cdot \text{K}^{-1}$
- Free of thermal bridges
- Thermal conductivity $\lambda = 0.0307 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$
- Fire behaviour in accordance with DIN EN 13501-1 Class E (approved)
- Fire behaviour in accordance with DIN 4102-1 Class B1 (in testing)
- High load absorption (579 kg)
- Fall protection TRAV in accordance with DIN 18008 (in testing)
- RC 2 approval in accordance with EN 1627
- High compressive strength 806 kPa
- Sealing in accordance with accepted rules of engineering (in testing)
# Order information

<table>
<thead>
<tr>
<th>Designation</th>
<th>Dimensions</th>
<th>Colour</th>
<th>PU</th>
<th>PU/Pallet</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU frame for projecting installation</td>
<td>90 x 80 x 1180 mm</td>
<td>white</td>
<td>30 pcs</td>
<td>60 pcs</td>
<td>H-01573-08-0-7</td>
</tr>
<tr>
<td></td>
<td>90 x 120 x 1180 mm</td>
<td>white</td>
<td>24 pcs</td>
<td>48 pcs</td>
<td>H-01573-12-0-7</td>
</tr>
<tr>
<td></td>
<td>90 x 160 x 1180 mm</td>
<td>white</td>
<td>16 pcs</td>
<td>32 pcs</td>
<td>H-01573-16-0-7</td>
</tr>
<tr>
<td></td>
<td>90 x 180 x 1180 mm</td>
<td>white</td>
<td>14 pcs</td>
<td>28 pcs</td>
<td>H-01573-18-0-7</td>
</tr>
<tr>
<td></td>
<td>90 x 200 x 1180 mm</td>
<td>white</td>
<td>12 pcs</td>
<td>24 pcs</td>
<td>H-01573-20-0-7</td>
</tr>
</tbody>
</table>

*Note: for anti-burglary elements with resistance class RC 2 min. 70 mm

---

# Fastening the frame profile to the GU frame for projecting installation

[Diagram of fastening the frame profile]

*Note: for anti-burglary elements with resistance class RC 2 min. 70 mm*
GU anchor for projecting installation

Product description
The GU frame for projecting installation is securely fastened to the masonry using the GU anchor for projecting installation. It consists of a dowel with a galvanised steel screw.

For the lengths of the GU anchor for projecting installation, please see the overview shown on page 17.

Product characteristics
- Approved for all common building materials
- Reliable hold even in problem building materials thanks to optimised expansion part
- Secure fit thanks to radial expansion
- Cr (VI)-free surface of the dowel screw
- Twice the anti-twist protection for a secure installation

Base materials
Approved: concrete, solid bricks, lime sand solid bricks, lightweight concrete solid bricks, vertical coring bricks, vertical coring lightweight bricks, lime sand ventilating bricks, lightweight concrete hollow blocks, porous lightweight concrete.

Fastening the GU frame for projecting installation to the masonry
Technical data and requirements

Characteristic values

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borehole depth in concrete $h_{1.1}$</td>
<td>$\geq 80$ mm</td>
</tr>
<tr>
<td>Effective anchor depth $h_{eva}$</td>
<td>$\geq 70$ mm</td>
</tr>
<tr>
<td>Borehole diameter $d_0$</td>
<td>10 mm</td>
</tr>
<tr>
<td>Drive</td>
<td>SW13/T40</td>
</tr>
</tbody>
</table>

Characteristic loads

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range $30 \degree C / 50 \degree C$</td>
<td>4.50 kN</td>
</tr>
<tr>
<td>Temperature range $50 \degree C / 80 \degree C$</td>
<td>4.00 kN</td>
</tr>
<tr>
<td>Building bricks Mz 20-1.8, NF</td>
<td>4.00 kN</td>
</tr>
<tr>
<td>Lime sand solid bricks KS 36, NF</td>
<td>4.50 kN</td>
</tr>
<tr>
<td>Lime sand solid bricks KS 20, 8 DF</td>
<td>4.50 kN</td>
</tr>
<tr>
<td>Lightweight concrete solid bricks, V6, 2 DF</td>
<td>2.00 kN</td>
</tr>
<tr>
<td>Porous lightweight concrete</td>
<td>2.00 kN</td>
</tr>
<tr>
<td>Vertical coring bricks HLz 12-0.9, NF</td>
<td>2.00 kN</td>
</tr>
<tr>
<td>Lime sand ventilating bricks KSL 12, 4 DF</td>
<td>2.50 kN</td>
</tr>
<tr>
<td>Lightweight concrete hollow block Hbl 10, 12 DF</td>
<td>1.20 kN</td>
</tr>
</tbody>
</table>

Lateral loads $V_{eva}$

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dowel with steel screw</td>
<td>9.35 kN</td>
</tr>
<tr>
<td>Dowel with stainless steel screws A4</td>
<td>10.91 kN</td>
</tr>
</tbody>
</table>

Bending moment $M_{eva}$

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dowel with steel screw</td>
<td>17.67 Nm</td>
</tr>
<tr>
<td>Dowel with stainless steel screws A4</td>
<td>20.62 Nm</td>
</tr>
</tbody>
</table>

Fixing instructions

<table>
<thead>
<tr>
<th>GU frame for projecting installation</th>
<th>GU anchor for projecting installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 160 mm</td>
<td>10 x 180 mm</td>
</tr>
<tr>
<td>90 x 80 mm</td>
<td></td>
</tr>
<tr>
<td>90 x 120 mm</td>
<td></td>
</tr>
<tr>
<td>90 x 160 mm</td>
<td></td>
</tr>
<tr>
<td>90 x 180 mm</td>
<td></td>
</tr>
<tr>
<td>90 x 200 mm</td>
<td></td>
</tr>
</tbody>
</table>

Order information

<table>
<thead>
<tr>
<th>Designation</th>
<th>Dimensions</th>
<th>PU pcs</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU anchor for projecting installation</td>
<td>10 x 160 mm</td>
<td>100 pcs</td>
<td>H-01624-16-0-1</td>
</tr>
<tr>
<td></td>
<td>10 x 180 mm</td>
<td>100 pcs</td>
<td>H-01624-18-0-1</td>
</tr>
<tr>
<td></td>
<td>10 x 220 mm</td>
<td>100 pcs</td>
<td>H-01624-22-0-1</td>
</tr>
<tr>
<td></td>
<td>10 x 240 mm</td>
<td>100 pcs</td>
<td>H-01624-24-0-1</td>
</tr>
<tr>
<td></td>
<td>10 x 260 mm</td>
<td>100 pcs</td>
<td>H-01624-26-0-1</td>
</tr>
</tbody>
</table>
Product description

GU-1K installation adhesive is a high quality, neutral, permanently elastic one-component adhesive and sealing compound based on a hybrid polymer. It can be used for a universal range of applications.

Product characteristics

- Very easy to work with
- Permanently elastic after curing
- Virtually odourless
- Non-corrosive
- Waterproof and resistant to salt water
- Compensates for any unevenness and material stress
- No speckling with porous substrates such as natural stone, ashlar, marble, granite, etc.
- Blister-free curing even at high temperatures
- Very good adhesion to many materials mostly without primer
- Also sticks to moist substrates
- Silicone-, solvent-, halogen-, acid- and isocyanate-free
- Very good coating compatibility in accordance with DIN 52452; wet-on-wet paintable
- Colourfast, weatherproof and UV-resistant

Applications

- For example, stress-free structural adhesion of metal, plastic (except of PE, PP, PTFE and silicone) and hardwood
- Sealing and adhesion applications in the construction industry
- Structural adhesion of vibrating constructions
- Sealing and adhesion of metal constructions
- Stress-free sealing and adhesion in the area of wagon construction, container construction, shipbuilding, body construction, vehicle construction, caravan construction and apparatus construction
- Sealings for air conditioning and ventilation systems
- Sanitary sealings
- Sealing of weld joints
- Sealing of floor joints
- Mounting of sound absorbing and heat-insulating mats
- Adhesion of tread thresholds (GU-thermostep)
## Technical data and requirements

<table>
<thead>
<tr>
<th>GU 1K installation adhesive</th>
<th>Classification and grading</th>
<th>NF / ISO / DIN standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1 component hybrid polymer</td>
<td></td>
</tr>
<tr>
<td>Consistency</td>
<td>Stable paste</td>
<td></td>
</tr>
<tr>
<td>Curing method</td>
<td>Polymerisation through air humidity at room temperature</td>
<td></td>
</tr>
<tr>
<td>Film formation time[^1]</td>
<td>approx. 10 minutes</td>
<td></td>
</tr>
<tr>
<td>Curing speed[^2]</td>
<td>2 - 3 mm in the first 24 hours</td>
<td></td>
</tr>
<tr>
<td>Shore A – hardness</td>
<td>40 ± 5</td>
<td>DIN 53505</td>
</tr>
<tr>
<td>Density</td>
<td>1.67 g/ml</td>
<td>DIN 53479</td>
</tr>
<tr>
<td>Thermal stability</td>
<td>-40 °C up to +90 °C</td>
<td>ISO 7389-8</td>
</tr>
<tr>
<td>Recovery</td>
<td>&gt; 75 %</td>
<td>EN ISO 11600</td>
</tr>
<tr>
<td>Max. permissible total deformation</td>
<td>20 %</td>
<td>EN ISO 8339</td>
</tr>
<tr>
<td>Elastic modulus 100 %</td>
<td>0.75 N/mm²</td>
<td>DIN 53504</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>1.8 N/mm²</td>
<td>DIN 53504</td>
</tr>
<tr>
<td>Combined tension and shear resistance[^3]</td>
<td>0.9 N/mm²</td>
<td>DIN 53504</td>
</tr>
<tr>
<td>Percent elongation at failure</td>
<td>750 %</td>
<td>DIN 53504</td>
</tr>
<tr>
<td>Volume change</td>
<td>-3 up to -4 Vol. %</td>
<td>EN ISO 10563</td>
</tr>
<tr>
<td>Building material class</td>
<td>82 (normally inflammable)</td>
<td>DIN 4102, part 4</td>
</tr>
</tbody>
</table>

[^1]: Measured according to standard atmosphere (EN ISO 291) at 23 °C / 50 % rel. hum. These values can vary due to environmental factors such as temperature, humidity and the nature of the substrate.

[^2]: Substrate AlMgSi1, layer thickness 2 mm, feed rate 10 mm/minute.

## Order information

<table>
<thead>
<tr>
<th>Designation</th>
<th>Packaging</th>
<th>Contents</th>
<th>Colour</th>
<th>PU/Box</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU 1K installation adhesive</td>
<td>Cartridge</td>
<td>290 ml</td>
<td>grey</td>
<td>12 pcs</td>
<td>H-01175-00-0-0</td>
</tr>
<tr>
<td></td>
<td>Soft-pack</td>
<td>600 ml</td>
<td>grey</td>
<td>20 pcs</td>
<td>H-01175-60-0-0</td>
</tr>
</tbody>
</table>
Substrates

- The GU-1K installation adhesive cures excellently on a variety of substrates and mostly without primer. These include metals (AlCuMg1, AlMgSi1, brass, zinc, steel ST, 1403 electro-galvanised and hot-dip-galvanised steel and other steels), plastics (polystyrene, polycarbonate, PVC, ABS, polyamide, PMMA and GRP – but not PE, PP, PTFE and silicone), polystyrene, cork, enamel, concrete, glass, HPL and wood.

- In general, care should be taken with plastics to ensure that release agents used in manufacture or protective films used for transport are removed before gluing, leaving no residue. Otherwise, adhesion to the component deteriorates considerably. Plastics containing plasticisers (e.g. soft PVC, butyl rubber, EPDM and APTK) may exhibit incompatibilities such as discolouration and loss of adhesion. Suitability for use with the system should be tested in such cases.

- Caution: PMMA and polycarbonate must be glued under tension, or otherwise stress cracks will form. Preliminary testing is strictly recommended for polycarbonate.

- Adhesion surfaces must always be suitable for coating, clean, and free of dust and grease. Dry and clean substrates are particularly suitable and produce the best bond values. GU 1K installation adhesive also sticks to moist substrates, and even underwater. Adhesion achieved in this way may, however, be weaker than adhesion to dry and clean substrates.

- Pretreatment: porous substrates that are subject to relatively high water loads should be pretreated with GU primer if appropriate. For all smooth surfaces we also recommend to improve the adhesion by using a GU primer.

Processing

- Application method
  - GU manual or compressed-air gun

- Processing temperature
  - Ambient temperature: +0 °C (frost-free) to +40 °C
  - Temperature of adhesive surface: +0 °C (frost-free) to +35 °C

- Caution: Curing of the GU-1K installation adhesive occurs from outside to inside as a result of air humidity at room temperature and slows over time. At low temperatures and/or low air humidity curing can be significantly slower!

Joint dimensions

- Minimum width
  - for gluing: 2 mm
  - for sealing: 5 mm

- Maximum width
  - for gluing: 10 mm
  - for sealing: 30 mm

- Minimum depth
  - for gluing: 2 mm
  - for sealing: 5 mm

- Recommended
  - Joint width = 2 x joint depth (> 6 mm width)
  - Joint width = 1 x joint depth (< 6 mm width)

Storage

- Store in the unopened packaging in a cool (+5 °C to +25°C), dry place. Seal opened containers well and use quickly

Safety instructions

- Observe standard workplace hygiene
**Chemical resistance**

- Good: water, aliphatic solvents, dilute inorganic acids and alkalis, oils and greases
- Bad: aromatic solvents, concentrated acids and chlorinated hydrocarbons

**Note**

- The GU-1K installation adhesive is paintable. Due to the variety of coating systems available on the market, we recommend carrying out compatibility and adhesion tests in advance. For example, in accordance with the relevant standards such as DIN 18540, elastic sealing compounds should not be coated completely, because otherwise cracks can form in the non-elastic paint when tensions and movements occur. The drying time of alkyd resin paints may also be delayed. Any soap residue from the smoothing water should be removed prior to coating, as this can impair the adhesion of the coating. An adhesion and compatibility test for the adhesive itself is advisable for the different substrates.
The GU frame for projecting installation is a powerful problem solver for modern construction and energetic renovation. Windows and balcony-doors can no longer be fixed directly through the frame to the masonry in the case of multiple-layer outer walls that are formed by fixing a exterior insulation finishing system (EIFS). Conventional installation was done in the EIFS i.e. in a nonstructural material.

Supporting structures are therefore essential for the fixing frame of structural elements. The GU frame for projecting installation performs its function particularly well thanks to its impressive features. It is very efficient to work with and has been tested for burglary protection to EN 1627 up to resistance class RC 2. In addition, the rectangular cross-section of the frame provides flexibility: it can be installed in two positions, so that, for example, the installation depth can vary between 90 and 120 millimetres.

Installation – step 1

During installation, the GU frame for projecting installation fixed under the component is first cut to the length of the dimensions of the window. The dimension here is calculated from the left outer edge of the frame formed by the frame to the right outside edge. The horizontal lower element is therefore measured along the full length, and the upper frame is also measured in the same way. The vertical frames are fitted to the sides of the window between these horizontal elements.

Installation – step 2

After cutting, the GU-1K installation adhesive is applied bead-and serpentine-like to the frame for projecting installation and then bonded to the surrounding masonry. The special processing instructions of the products used and the surface treatment must be observed.

Installation – step 3

Then the bonded GU frame for frame for projecting installation is also fixed to the GU anchor for projecting installation. At least three anchors per frame must be installed and the positions on the frame where they must be fixed is described in the graphic on the opposite side. The maximum distances from the outer edges of the GU frame for projecting installation to the first screw connection is 150 millimetres with a maximum of 700 millimetres between the fixing points. Carrying out the screw connection according to these specifications provides the necessary edge spacing for fixing stability on all sides.

Installation – step 4

The structural elements are installed perpendicularly and flush with the GU frame for projecting installation. Fixing the lower shims is not required for an exact plumbing of the frame. Installation of the window is carried out with self-cutting frame anchor screws (diameter 7.5 mm). When selecting the screw length, it is essential to ensure that there is a minimum screw depth of 60 millimetres in the GU frame for projecting installation. In addition, the separate test certificate and the corresponding installation instructions must be observed with anti-burglary versions.

Installation – step 5

The sealing between the structural element and the GU frame for projecting installation is made in the last step. GU gun foam, GU outside window sealing tape, GU joint sealing tape, GU sealing tape BG1 and other sealing products of the GU Group are used here.

Note: During the entire installation process, the “Guidelines for planning and executing the installation of windows and house doors for new constructions and renovations” of the RAL-Güte-gemeinschaft Fenster und Haustüren e.V. should be observed.

Installation examples

Suitable for all profile depths and frame materials Especially suitable for use in double-layer clinker facades: Here the GU frame for projecting installation satisfies the demands for load absorption, thermal protection, windproofness and sound insulation with maximum efficiency.
Features and benefits of projecting installation at a glance

- Positioning and installing the window in the insulation plane without much effort
- No risk of thermal bridges
- Perfect for clinker facades: installation in the insulation plane, systematic load absorption and precise sealing
- GU frame for projecting installation can be used either-way (for example, 90/120 mm)
- Complete installation using only three products:
  - GU frame for projecting installation
  - GU anchor for projecting installation
  - GU 1K installation adhesive
- These three products together constitute an approved system
- Airtight installation on the masonry using GU-1K installation adhesive
- Edge distance of 70 mm (indicated by a mark) is complied with when choosing a fixing point
- All mounting points for the GU frame for projecting installation are complied with, even for PVC and timber/aluminium profiles
- Combinable with the GU supporting consoles and GU retaining angles from system 1
- Can be plastered and painted-over
- GU frame for projecting installation can be drilled, screwed and sawn, thus enabling quick and easy installation
- Window is fitted in prefabricated frame without additional drilling
- GU anchor for projecting installation can be used with all types of stone

max. 150 mm
max. 700 mm
max. 700 mm
max. 150 mm

max. 150 mm
max. 700 mm
max. 700 mm
max. 150 mm
Proven system solution from Gretsch-Unitas

GU frame for projecting installation

Component testing of sound insulation

RC 2 approval in accordance with EN 1627

Component testing of suitability for use in low-energy and passive houses

Component testing for load-bearing capacity
Testing the fire behaviour of construction products in accordance with EN ISO 11925-2: 2010

Classification for fire behaviour in accordance with EN 13501-1: 2010

Component testing of thermal conductivity
Exclusion of liability

The information provided in this publication consists of product descriptions. This is general information based on our experience and tests and therefore does not take any specific application into account. No claims for compensation can be made on the basis of the product descriptions.

Although we have made every attempt to ensure the information provided here is accurate, it is non-binding. It should be adapted to the respective construction projects, usage and specific on-site demands.

The publication has been compiled to the best of our knowledge. The Gretsch-Unitas Group accepts no liability for any errors. The document is subject to modifications during the course of technical developments.

The product images shown in the publication may differ from the actual product.

Copyright notice

© All illustrations and texts in this publication are protected by copyright. Unless otherwise stated in the image credits, the rights belong to the Gretsch-Unitas Group. Any use of copyright protected materials without the consent of the holder of the rights is prohibited.

Image credits

Page 2 With kind permission of Arndt Fenstertechnik GmbH & Co. KG