

## Qju Fixing Components

Qju Befestigungs-Komponenten 3700

**Qju Adhesive Foam 3700,  
Qju Fixing Brackets 3701,  
for use in ETICS system Qju**

### Qju Adhesive Foam 3700

#### Properties

Special, moisture-hardening, single-component polyurethane foam, partially collapsing. Dyed blue, large-celled, very high-yield, and easy to apply. Resistant to decomposition, heat, water, and many chemicals. Temperature-resistant from -40°C to +90 °C.

#### Field of application

Tested and approved for efficient, clean and safe gluing of insulation boards in ETICS-System Qju.

On all stable, dry, bearing, painted and unpainted substrates in old and new buildings, e.g. on plaster, concrete, brickwork, etc.

Also suitable for gluing EPS hard foam insulation boards at ceilings (see note "Qju-Up Basement Ceiling Insulation").

#### Material description

**Color:** blue

**Base material:** Isocyanate urethane prepolymer

**Fire protection classification:** in system build-up B1 hardly inflammable as per DIN 4102-1

**Raw density (foamed):** approx. 20–30 kg/m<sup>3</sup>

**Thermal conductivity  $\lambda$ :** 0.040 W/(m·K) according to DIN 52612

**Pressure stress at 10 % compression:**

approx. 35 kPa

**Water absorption:**

approx. 0.3 Vol.% as per DIN 53428

**Temperature resistance:** -40 °C to +90 °C

**Packaging:**

750 ml can (pressurized)

12 pcs./box, recyclable

#### Use

##### Surface preparation

The substrate must be clean, solid, dry, stable, load bearing and free from any efflorescence, sintered layers and separating agents. The surface must be pre-treated according to the actual condition and the requirements.

Remove projecting mortar or concrete parts mechanically, level major unevenness of surface using a suitable mortar, e.g. plaster of plaster mortar group PII. Check existing plaster for solidity and hollow areas, check existing coats for their bearing capacity. Remove non-bearing plasters and coatings completely. Prime highly absorbent substrates using Lacryl Deep Penetrating Primer LF 595. Also refer to VOB Part C, DIN 18 363 and 18345, Par. 3.

##### Preparation

Before use, shake can thoroughly at least 20 times (approx. 30 seconds). Take off cap and screw can on Qju Foam Gun 3556 according to operating instructions.

Generally, the glue layer should be kept as thin as possible to ensure flush vertical alignment. When mounting only with adhesive foam, surface irregularities of  $\leq 1$  cm/m can be bridged. When mounting with adhesive foam and structurally relevant anchoring, surface irregularities of  $\leq 2$  cm/m can be bridged. Larger surface irregularities must be leveled mechanically or compensated for.

**Application on insulation board**

Using the Qju Foam Gun 3556, apply Qju Adhesive Foam 3700 (one line around the board and one in the middle). Ensure that the tip of the gun does not touch the insulation board. Maintain a distance of 1 to 2 cm from the insulation material.

After application of the adhesive foam, mount the insulation boards immediately. After mounting the Qju insulation boards, the width of the foam lines must be approx. 6 cm. The adhesive foam must be applied close to the insulation boards' edges. If the foam structure is destroyed, e.g. by leaning the Qju insulation board against the wall, remove the board and reapply adhesive foam.

In the case of uneven facade surfaces, Qju insulation boards with different thickness may be used to compensate the differences.

Interruptions of the work, even for longer periods, are possible at any time, provided that the can remains pressurized and firmly connected to the foam gun. Additionally, the adjustment screw must be closed. When an empty can is removed and not replaced by a new one immediately, the foam gun must be cleaned. Before replacing the can, the old Qju adhesive foam can must be completely empty. Fill any residues in suitable containers, e.g. garbage bags, until no more gluing foam comes out of the Qju foam gun anymore.

When the empty can is unscrewed, some foam may escape from the screw adapter. Apply some PUR Foam Gun Cleaner 3556.0500 and screw on the new can. Foam projecting from joints or openings should be removed only after full curing. When the foam has fully cured, cut off projecting gluing foam, using a sharp knife, for example. Rub down to obtain a flush surface, if necessary. In any case, remove any foam or other residues before applying the coating.

**Consumption**

Content of can sufficient for approx. gluing of 4 to 5 m<sup>2</sup> of insulation boards in ETIC-System Qju.

The yield depends on the layer thickness of the gluing foam.

**Application temperature**

Do not use below +5 °C and above

+35 °C air and object temperature. Also ensure the temperature is not below/above these limits while the material is hardening.

Note dew point temperature.

Make sure the temperature is at least 3 °C above the dew point.

The relative atmospheric moisture must not exceed 90 %. Optimum can and substrate temperature: +20 °C.

**Tool cleaning**

Do not use force when removing the can from the gun adapter.

Immediately after use, spray PUR Foam Gun Cleaner 3556.0500 on Qju Foam Gun 3556 and clean the foam gun.

Repeat after approx. 15 minutes. Using a cloth, remove excessive cleaner and apply Vaseline spray on screw adapter to prevent gluing between the gun and the Qju gluing foam cans. Unpressurized foam that remains in the gun will harden and destroy the gun.

**Drying (+20°C, 50 % relative humidity)**

Non-sticky after approx. 10 minutes. Ready for cutting after approx. 30 to 40 minutes. Glued insulation boards are ready for next work step after approx. 2 hours.

Fully loadable after 24 hours, depending on temperature and moisture.

**Storage**

Protect against sun impact and temperatures above +50 °C, store at a dry and cool location in upright position, if possible. Can be stored up to approx. 9 months, see bottom of can.

**Declaration**

Comply with hazard information and safety recommendations on the container and in the EC safety data sheet.

**Water pollution classification**

WGK 1, self-classification.

**Product code**

PU 80

Comply with the specifications in the current safety data sheet.

## Notes

### **Do not use under the soil surface**

Qju Adhesive Foam 3700 is not suitable for mounting the ETICS plinth and underground insulation boards in the soil.

### **Joints and defects**

For filling joints and defects in ETICS systems, use PUR Filler Foam 3555.

### **Protection against soiling**

Since PUR foams are very light, they must be protected against strong wind during application. Otherwise, persons and neighboring structures may be soiled by fresh PUR foam.

### **Safety equipment**

We recommend using appropriate protective equipment, e.g. Gloves 1793 and Safety Goggles 1833.0010. The special Qju Tool Belt 1428, for storage of Qju fixing brackets and nails, is ideal for efficient working.

### **Empty adhesive foam cans**

In the PDR Recycling System, empty Qju adhesive foam cans are returnable, free of charge, in the original box with 12 empty cans. Alternatively, they will be accepted for recycling by any Brillux branch. Please pay attention to the information on the box.

## Qju Fixing Brackets 3701

### Properties

Special plastic bracket with double perforation and additional breaking point. The highly viscous glue which is applied to one leg and the large gluing surface ensure safe fixture on almost any substrate - without waiting time. Particularly easy handling by "variable" insertion of supplied fixing nails in Qju insulation boards.

### Field of Application

For quick and variable fixture of the insulation boards in ETIC-System Qju, on concrete, brickwork, clinker, plasters up to 5 mm grain size (painted and unpainted), also on exposed aggregate concrete, perforated bricks with and without web structure, coarse expanded clay blocks, etc.

## Material description

**Color:** blue

**Basis:** Plastic bracket with one-sided, double perforation and breaking point as well as one-sided highly viscous glue with protective foil.

**Width of bracket:**

approx. 40 mm

**Leg lengths:**

approx. 30 x 45 mm

**Material thickness:**

approx. 2.0 mm

**Glue layer thickness:**

approx. 2.5 mm

**Fixing nails:**

Length: approx. 60 mm

**Packaging:**

500 pcs./box

incl. 550 fixing nails

## Use

### **Fixture in surface**

Immediately after application of Qju Adhesive Foam 3700 and placement of the Qju insulation boards, two Qju fixing brackets are to be affixed to the substrate directly above the insulation board. Remove protective foil before and press fixing brackets on wall firmly. The Qju fixing brackets will stick immediately - without waiting time!

The Qju fixing bracket can be positioned in various ways; there is no required method. A centered distance of approx. 50 cm with an edge distance of approx. 25 cm in each case has proven effective. Deviations from this may sometimes be useful, for example for butt joints in masonry, vertically perforated brick with connecting structure, recessed areas needing repair, etc.

For half-boards, only one Qju fixing bracket is placed at the top center of the board; this position is varied accordingly for other board cuts. After aligning the insulation boards, preferably with the "Qju Shorty" bubble level, these are mounted by inserting the fixing nails through the hole in the Qju fixing brackets.

The Qju fixing bracket is always affixed on the upper side because the Qju insulation boards are held in place at the bottom by the tongue-and-groove jointing. Qju fixing brackets must be affixed such that at least one of them is directly attached to each insulation board and has direct adhesive contact to the substrate.

The above specifications are valid for an insulation board thickness of  $\geq 80$  mm. For fixing Qju insulation boards of a thickness of 50 or 60 mm, the fixing brackets are provided with a second perforation row, incl. breaking point. Simply break off the front row and proceed as described above.

#### **Other applications**

In addition to fixing the Qju insulation boards, the Qju fixing brackets can also be used for other purposes. E.g. for supporting the insulation boards in the lintel area of openings, for base connection or on the side for detail work at window sills.

#### **Recessed base connection with Qju fixing bracket and drip edge section**

In this variant without thermal bridges, first fix the Qju Fixing Brackets horizontally at a distance of approx. 50 cm (2 pcs. per insulation board). Fix the Qju insulation boards at the bottom by inserting the fixing nails, then at the top (as described in "Fixture in surface"). Before installing the base insulation, a drip edge section or the ETICS Plinth Joint Profile 3815 is fixed and embedded. The horizontal legs of the Qju fixing brackets can be broken off easily.

#### **Notes**

##### **Prime the substrate**

Brickwork, in particular made of lime sand brick, is characterized by chalking and/or insufficient strength at the surface. In order to ensure safe fixture of the Qju fixing brackets and the Qju insulation boards with the Qju adhesive foam, non-bearing substances must be removed, and the surface must be primed using Lacryl Deep Penetrating Primer LF 595.

##### **Further information**

For information on how to use the ETICS system Qju, refer to the specifications in data sheets 5v00 Use of System and the data sheets of the products used.

For more information, also refer to the brochure on the ETICS system Qju and the general instructions on use of Qju.

#### **Qju-Up basement ceiling insulation**

The Qju fixing components are ideal for Qju-Up basement ceiling insulation with Basement Ceiling Insulation Board 3647 or Qju Insulation Boards 3702/3703. For application instructions and more information, refer to data sheets of insulation boards and brochure "Qju-Up Basement Ceiling Insulation and Attic Insulation".

#### **General Building Inspection Test Certificates**

##### Z-33.84-731

ETICS system based on EPS hard foam with reinforcing mass ZF-SiL 3585 and ZF-R 3636 including ETICS Qju Adhesive Foam 3700.

##### Z-33.9-913

Brillux Qju WDVS Adhesive Foam 3700 for gluing of EPS hard foam insulation boards in thermal insulation compound system.

Current test certificates are available on the Internet.

**Remark**

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**Figure 1**

Qju Adhesive Foam 3700 with  
PUR Foam Gun 3556

**Figure 2**

Qju Fixing Brackets 3701 with  
fixing nails

