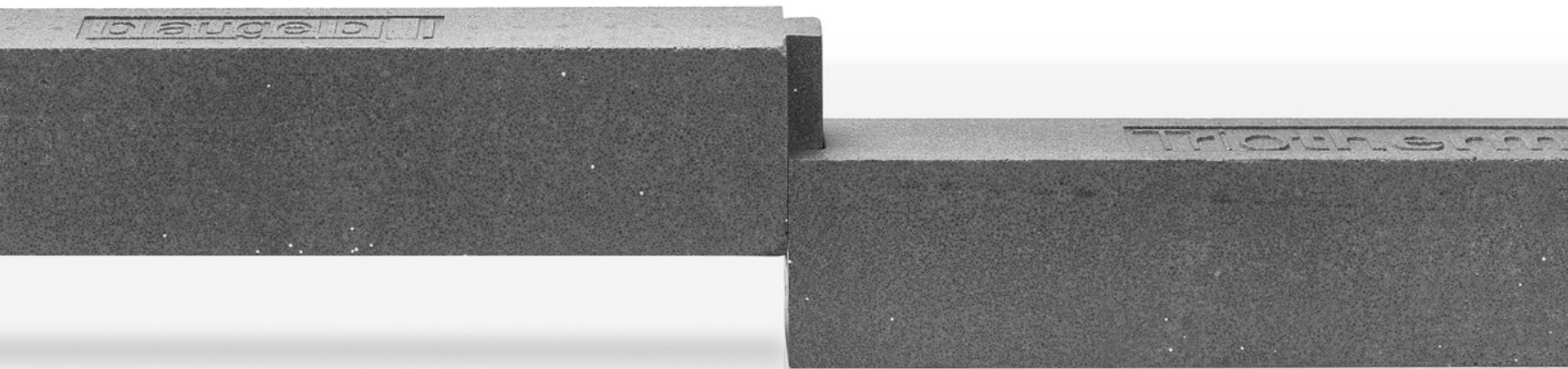


The blaugelb Trio**therm**⁺ profiles are part of the Trio**therm**⁺ overall system for building element installation in the insulating layer of façades. They transfer all loads arising reliably and without distortion, and systematically apply them to the load-bearing structure. The blaugelb Trio**therm**⁺ profiles allow efficient sealing of window connection joints in accordance with the applicable regulations.



blaugelb Trio**therm**⁺ profiles

The Trio**therm**⁺ profile – part of the blaugelb Trio**therm**⁺ system.

- **100 % recyclable**
- **100 % HCFC, HFC and HBCD-free**
- **High-density (expanded) polystyrene**
- **High ductility**
- **Infinitely extensible by dovetailing**
- **Enables sustainable construction thanks to reversibility of window sealing and fastening when renovating**
- **System component of the tested pre-wall installation system blaugelb Trio**therm**⁺**

Area of application:

A major area of application of the blaugelb Triotherm⁺ profiles is for extending the masonry jamb in the insulation layer of the façade, as the load-bearing, dimensionally stable installation surface for the assembly parts to be fitted. The blaugelb Triotherm⁺ profiles can introduce the resulting forces reliably into the load-bearing structure via the mechanical fastening. The permanently dimensionally stable blaugelb Triotherm⁺ profiles always form a level plane for the regulation-compliant sealing of connecting joints between construction elements.

blaugelb Triotherm⁺ profiles made from a high-density EPS (expanded polystyrene) are one of the three system components of the blaugelb Triotherm⁺ system. The robust, hard-wearing profiles exhibit load-bearing capacity, can be fitted to the load-bearing structure quickly and easily, and offer thermally isolated load transfer – thermal bridges from the structurally necessary fastening of construction elements are reduced to a minimum. The blaugelb Triotherm⁺ profiles can be integrated perfectly into the insulating zones of all façade systems.

The waste-free joining of the blaugelb Triotherm⁺ profiles brings clear advantages for the fitter by virtue of the extruded, positive-locking dovetail design. Thanks to their low weight and compact dimensions, the blaugelb Triotherm⁺ profiles are unbeatably quick and straightforward to process.

Expert sealing and mechanical fastening of the blaugelb Triotherm⁺ profiles to the load-bearing base is necessary, but takes only a few minutes. For more detailed information on installation, please consult the installation instructions at www.blaugelb.de

Product benefits:

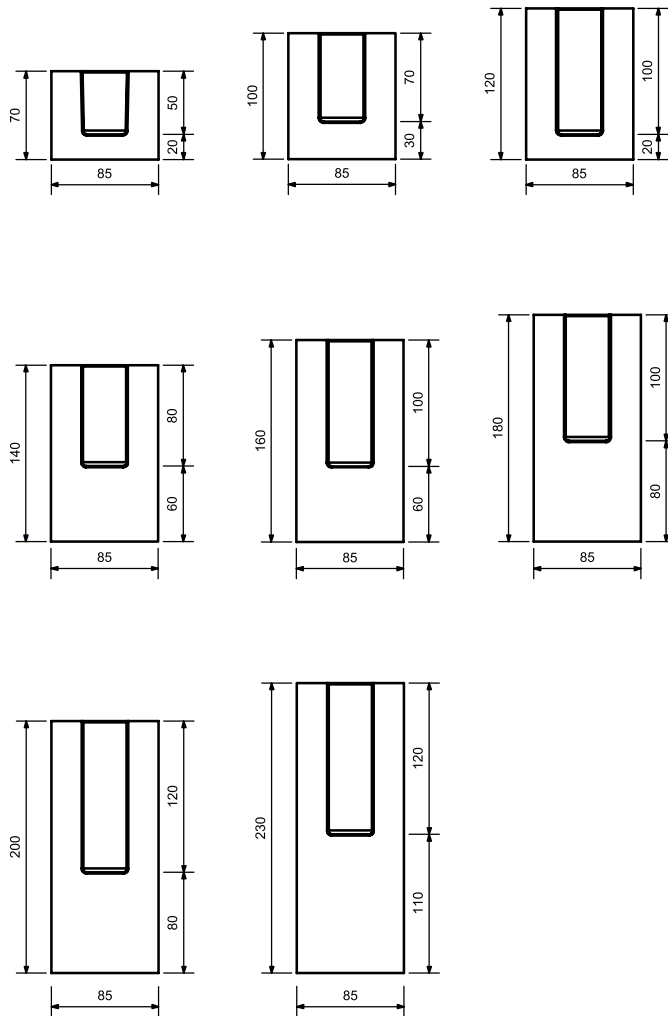
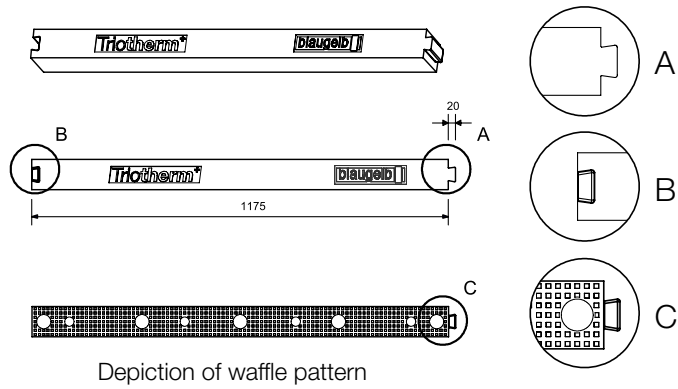
- Stable dimensions and volume
- Insensitive to moisture, non-ageing
- 100 % recyclable, 100 % free of HCFCs and HFCs
- HBCD (hexabromocyclododecane)-free
- High-density (expanded) polystyrene
- High ductility
- Thanks to 100 % reversibility of window fastening for renovation, makes a major contribution to sustainable building
- Time savings thanks to few working steps and swift combination with the system components
- Profiles are easy to machine/saw with a jigsaw or mitre saw (coarse longitudinal-cut blade)
- Can be cut to shape precisely and with minimal dust
- Infinitely extensible by dovetailing
 - Very good fit of the dovetail joint
 - High level of joint stability
 - Waste-free processing
- Profiles exhibit a very low weight and compact dimensions
 - Advantage for transporting to/on construction site
 - Advantage for handling
- Window frames can be screwed on without pre-drilling of the blaugelb Triotherm⁺ profiles
- Waffle structure increases the adhesion of the seal between the base and the blaugelb Triotherm⁺ profiles

- Production process constantly maintains very high dimensional accuracy and geometrical accuracy of the blaugelb Triotherm⁺ profiles
 - Always straight
 - Always level sealing flanks
- High inherent stability and flexural strength, high ductility
- Airtight, connection between profile and base is verified by technical tests
- Absorption of high building tolerances flush with windows is verified by technical tests
- Reduces thermal bridges in the mounting plane of the assembly parts
- Tested to be low in pollutants according to EMICODE EC1 Plus

Technical data:

Material:	High-density EPS (expanded polystyrene), high ductility
Colour:	Grey
Compressive load bearing capacity at max. total deformation of 2 %:	1,260 kg/dm ²
Compressive load bearing capacity at 60 x 40 mm: (blaugelb Spacer Block)	5,800 N
Compressive load bearing capacity at 210 x 53 mm: (blaugelb Shim Block HST)	15,510 N
Fire behaviour: DIN 4102-1:1998-05 / DIN EN 13501-1:2019-05	B2 / Class E
Thermal conductivity nominal value λ_{10} : DIN EN 12667:2001-05	0.0375 W/m*K
Air permeability: EN 12207	Class 4
Water vapour diffusion resistance: DIN EN ISO 12086	228 μ
Bending strength: DIN EN 12089	$\geq 2,490$ kPa
Compression stress (2 %) compression: DIN EN DIN EN 13163:2017 / EN 826:2013-05	$\geq 1,435$ kPa
Shear strength: DIN EN ISO 14130	0.217 N/mm ²
Screw withdrawal value: (Frame screw Fix FK-T30 7.5 x 62 mm)	2,100 N
Water absorption after 28 days under water: DIN 12087	≤ 0.5 vol. %
Compatibility with conventional building materials:	Compatible, except for solvents, solvent-bearing materials and materials that are not polystyrene-compatible
Ageing resistance:	Mould-proof, does not rot
Waste code:	Code no. 170604 Code no. 170904

Product name	PU	Item no.
blaugelb Triotherm ⁺ profile 70x85x1175 mm	Bundle of 9 pcs.	0420838
blaugelb Triotherm ⁺ profile 100x85x1175 mm	Bundle of 6 pcs.	0425988
blaugelb Triotherm ⁺ profile 120x85x1175 mm	Bundle of 6 pcs.	0420839
blaugelb Triotherm ⁺ profile 140x85x1175 mm	Bundle of 6 pcs.	9035238
blaugelb Triotherm ⁺ profile 160x85x1175 mm	Bundle of 6 pcs.	0420840
blaugelb Triotherm ⁺ profile 180x85x1175 mm	Bundle of 3 pcs.	9035239
blaugelb Triotherm ⁺ profile 200x85x1175 mm	Bundle of 3 pcs.	9021633
blaugelb Triotherm ⁺ profile 230x85x1175 mm	Bundle of 2 pcs.	9021632



Delivery and storage form:

Store in its original packaging. Current packaging: Use of a PE stretch film dyed white, UV-stable for 6 months made of POLYETHYLENE FS 340-03 and LL 118 BLEND.

Service

Instruction on the expert, system-compliant use of the blaugelb Triotherm⁺ installation system can be provided by our specialist advisors (info@blaugelb.de).

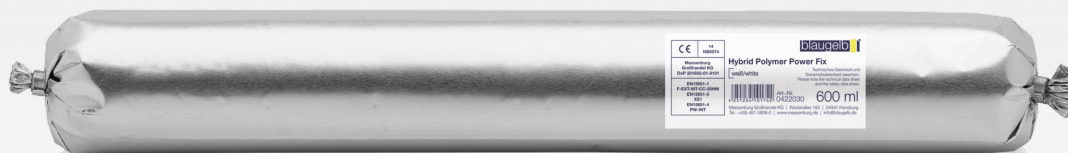
Disposal:

According to Waste Catalogue Ordinance:
 Code no. 170604 (single-grade insulating material EPS)
 Code no. 170904 (mixed construction waste)

Safety note:

According to the available specifications and guidelines, the product is not a hazardous substance.

The blaugelb Hybrid Polymer Power Fix white for very high-performance sealing and fastening.



blaugelb Hybrid Polymer Power Fix white

The Power Fix sealing compound – a component of the blaugelb Triotherm⁺ system.

- Outstanding initial adhesion on various substrates
- Rapid full cure
- High-performance sealing
- Weather and UV-resistant
- System component of the tested pre-wall installation system blaugelb Triotherm⁺
- Exceptional final adhesion (320 kg/10 cm²)

Product features:

The blaugelb Hybrid Polymer Power Fix 600 ml white is a single-component permanently elastic sealant that is suitable for sealing expansion and connecting joints.

Formulated on the basis of a hybrid polymer, it exhibits particularly high initial adhesion and rapid full cure. The blaugelb Hybrid Polymer Power Fix 600 ml white is waterproof, weather and UV-resistant and also resistant to many chemicals. Thanks to its outstanding initial adhesion, it can usually be applied without primer to almost all – even wet – substrates encountered in construction. Because the blaugelb Hybrid Polymer Power Fix 600 ml white exhibits not only excellent sealing properties but is also particularly suitable for fastening components, the product is part of the pre-wall installation system blaugelb Triotherm+, where it is used as a sealant and adhesive for fitting the blaugelb Triotherm+ profiles, in conjunction with the triangular nozzle.

Applications: blaugelb Triotherm+ pre-wall installation system, sealing of connecting joints on windows and roller shutter cases, fastening and sealing in the metal and construction industry, for door frames, window sills, plates, panels, strips, wood constructions and insulating materials.

Substrates: Metals (steel, aluminium, brass, zinc etc.), plastics (polycarbonate, PVC, ABS, polyamide, PMMA and GRP), cork, stone, enamel, glass, wood, HPL. Very well suited for concrete and cement-bonded fibreboard, sand-lime brick, hollow brick and porous concrete. The substrate should always be well cleaned for each application and not show any traces of release oil etc. Incompatibility (e.g. discolourations) may occur with natural stone. Do not use on PE, PP, PTFE or silicones.

Product benefits:

- Outstanding initial adhesion on various substrates
- Rapid full cure
- High-performance sealing
- Weather and UV-resistant, non-fading
- System component of the tested pre-wall installation system blaugelb Triotherm+
- Exceptional final adhesion (320 kg/10 cm²)
- Universally usable for sealing and fastening
- Very good processability, moisture and temperature-resistant
- Permanently elastic, compensates for unevenness and material movements
- Silicone, isocyanate, solvent, halogen and acid-free
- Non-corrosive
- Virtually odourless
- Exceptionally suited for time-critical application due to its fast processability
- Cured by atmospheric humidity from outside inwards
- Very good coatability according to DIN 52452-A1*, can be painted over wet-in-wet
- Suitable for all standard construction surfaces*
- Building material class B2 (DIN 4102)
- Tested to be low in pollutants according to EMICODE EC1 Plus

*Carry out suitable pretests.

Technical data:

Material base:	1C hybrid polymer
Colour:	white
Curing system:	polymerisation by atmospheric humidity
Building material class: DIN 4102-4	B2
Curing speed: At 23 °C and 50 % RH	approx. 3 mm / 24 hrs.
Skin formation: at 23 °C and 50 % RH	approx. 5 minutes
Density: DIN 53479	1.47 g/ml
Shore A hardness: DIN 53505	60 +/- 5
Max. permissible deformation:	20 %
Change in volume: DIN EN ISO 105636	-3 to -4 vol. %
Tensile strength: DIN 53504	3.5 N/mm ²
Tensile shear strength: DIN 53504	1.4 N/mm ²
Modulus of elasticity 100 %: DIN EN ISO 8339	2.3 N/mm ²
Elongation at break: DIN 53504	400 %
Elastic recovery: ISO 7389-B	> 75 %
Solvent content:	free
Isocyanate content:	free
Processing temperature:	Ambient: 0 °C to +40 °C substrate: 0 °C to +35 °C
Temperature resistance:	from -40 °C to +90 °C
Moisture resistance:	waterproof
Ecological report:	EMICODE EC1 Plus
Overpainting:	very good coatability according to DIN 52452-A1, can be painted over wet-in-wet
Storage life:	12 months in unopened pack at +5 °C to +25 °C
Delivery form:	600 ml tubular bag

Product name	PU	Item no.
blaugelb Hybrid Polymer Power Fix 600 ml white	20 bags	0422030

Preparation and processing:

The substrate must be firm, stable, clean and free of grease, dust and loose parts. The blaugelb Hybrid Polymer Power Fix 600 ml white also adheres to moist surfaces and even under water, but the best adhesion is achieved on dry substrates.

Before application, the suitability of the material for the intended application is to be verified through appropriate tests performed by the customer.

Curing takes place by reaction with atmospheric humidity from the outside inwards, and therefore slows down as time passes. Curing also slows down at low temperatures and/or if atmospheric humidity is low. The blaugelb Hybrid Polymer Power Fix 600 ml white can be smoothed off before skin formation.

Cleaning and repair:

Before curing, it can be cleaned using turpentine substitute; after curing, blaugelb Hybrid Polymer Power Fix 600 ml white can be removed with a silicone remover or mechanically. Repairs to the joint of blaugelb Hybrid Polymer Power Fix 600 ml white can be performed using the same material.

Delivery and storage form:

Store in the original packaging in a dry place and protect against effects of frost and heat. Can be stored for 12 months at a storage temperature between +5 °C and +25 °C.

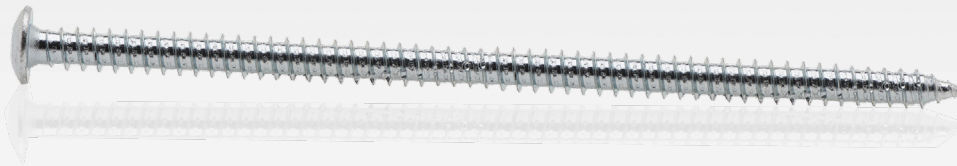
Disposal:

The disposal conforms with the national specifications.

Safety note:

Please note the Safety Data Sheets.

The blaugelb Frame screw Fix FK-T30 for faster and more precise screwing with maximum reliability.



blaugelb Frame screw Fix FK-T30

The Frame screw Fix - part of the blaugelb Trio**therm**⁺ system.

- Established and industry-proven fastening
- Low-cost
- Tapered thread tip reduces screw-in torques
- Universal use in a wide range of common building materials
- Distance fastening without lateral chocking (with test certificate)
- Suitable for clamping assembly
- Optimum transmission of the screw-in torques by TX drive

Product features:

The blaugelb Frame screw Fix FK-T30 is the universal fastener for no-plug, efficient installation of construction elements made of wood, PVC, aluminium and wood/aluminium into a wide variety of substrates (concrete, sand-lime brick, solid brick, wood, lightweight concrete, porous concrete, vertically perforated brick).

The blaugelb Frame screw Fix FK-T30 is especially suitable for the following applications:

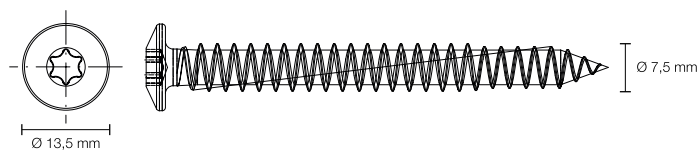
- Direct fastening for strainless installation of windows and doors
- Suitable for all frame materials
- Can be used without lateral spacer chocks (verified by technical tests)
- Fastening load-transferring blaugelb Trio**therm**⁺ profiles and auxiliary mounting brackets and supports

Product benefits:

- Established and industry-proven fastening
- Tapered thread tip reduces screw-in torques
- Universal use in a wide range of common building materials
- Distance fastening without lateral chocking (with test certificate)
- Suitable for clamping assembly
- Optimum transmission of the screw-in torques by TX drive

Technical data:

Material:	Case-hardened carbon steel
Surface:	Galvanised white
Thread:	Tapping-screw thread with tapered tip
Diameter:	7.5 mm
Diameter of head:	13,5 mm
Drive:	TX T30
Head shape:	Flat head



Product name	PU	Item no.
blaugelb Frame screw Fix FK-T30 7.5x42 mm galv.	100 pieces	0422310
blaugelb Frame screw Fix FK-T30 7.5x62 mm galv.	100 pieces	0422314
blaugelb Frame screw Fix FK-T30 7.5x72 mm galv.	100 pieces	0422318
blaugelb Frame screw Fix FK-T30 7.5x82 mm galv.	100 pieces	0422319
blaugelb Frame screw Fix FK-T30 7.5x92 mm galv.	100 pieces	0422320
blaugelb Frame screw Fix FK-T30 7.5x102 mm galv.	100 pieces	0422321
blaugelb Frame screw Fix FK-T30 7.5x112 mm galv.	100 pieces	0422324
blaugelb Frame screw Fix FK-T30 7.5x122 mm galv.	100 pieces	0422325
blaugelb Frame screw Fix FK-T30 7.5x132 mm galv.	100 pieces	0422327

Product name	PU	Item no.
blaugelb Frame screw Fix FK-T30 7.5x152 mm galv.	100 pieces	0422329
blaugelb Frame screw Fix FK-T30 7.5x182 mm galv.	100 pieces	0422331
blaugelb Frame screw Fix FK-T30 7.5x212 mm galv.	100 pieces	0422333
blaugelb Frame screw Fix FK-T30 7.5x252 mm galv.	50 pieces	0423707
blaugelb Frame screw Fix FK-T30 7.5x300 mm galv.	50 pieces	0422334
blaugelb Frame screw Fix FK-T30 7.5x350 mm galv.	50 pieces	9035135
blaugelb Frame screw Fix FK-T30 7.5x400 mm galv.	50 pieces	9035136

Preparation note:

The drilling type and hole diameter depend on the screwing base. After drilling, blowing out the drilling dust is recommended.

Jamb, substrate	Drill hole diameter	Screw-in depth	Rotary drilling	Impact drilling
Concrete	6.0 mm	40 mm		x
Sand-lime brick	6.0 mm	60 mm		x
Solid brick	6.0 mm	60 mm	x	
Wood	6.0 mm	60 mm	x	
Pumice	6.0 mm	60 mm	x	
Porous concrete	no pre-drilling	60 mm	-	
Vertically perforated brick	5.0 mm	100 mm	x	
Vertically perforated brick Highly insulated	5.0 mm	180 mm	x	

Hole depth = screw-in depth +10 mm

Choosing the right length of screw:

$$\begin{aligned}
 & \text{Grip length (e.g. frame or profile width)} \\
 & + \text{joint width (recommendation } \leq 15 \text{ mm)} \\
 & + \text{screw-in depth (depending on construction material, see tech. data sheet)} \\
 & \text{-----} \\
 & = \text{screw length}
 \end{aligned}$$

Edge distance from base for direct assembly: according to RAL "Leitfaden zur Montage" [Guideline for Installation] issue 2014, the distance should be not less than 60 mm.

Edge distance from base for clamping assembly: according to the system specifications and manufacturer's data. The documented distance should not be undercut.