



PROFESSIONAL – COMPLIANT – SAFE Floor-level connection

Your **installation guide** for the tricky and complicated cases of the **floor-level connection**.

Simple. Clear. blaugelb.

Clearly divided according to the processor – without a lengthy search for wood, PVC or aluminium.

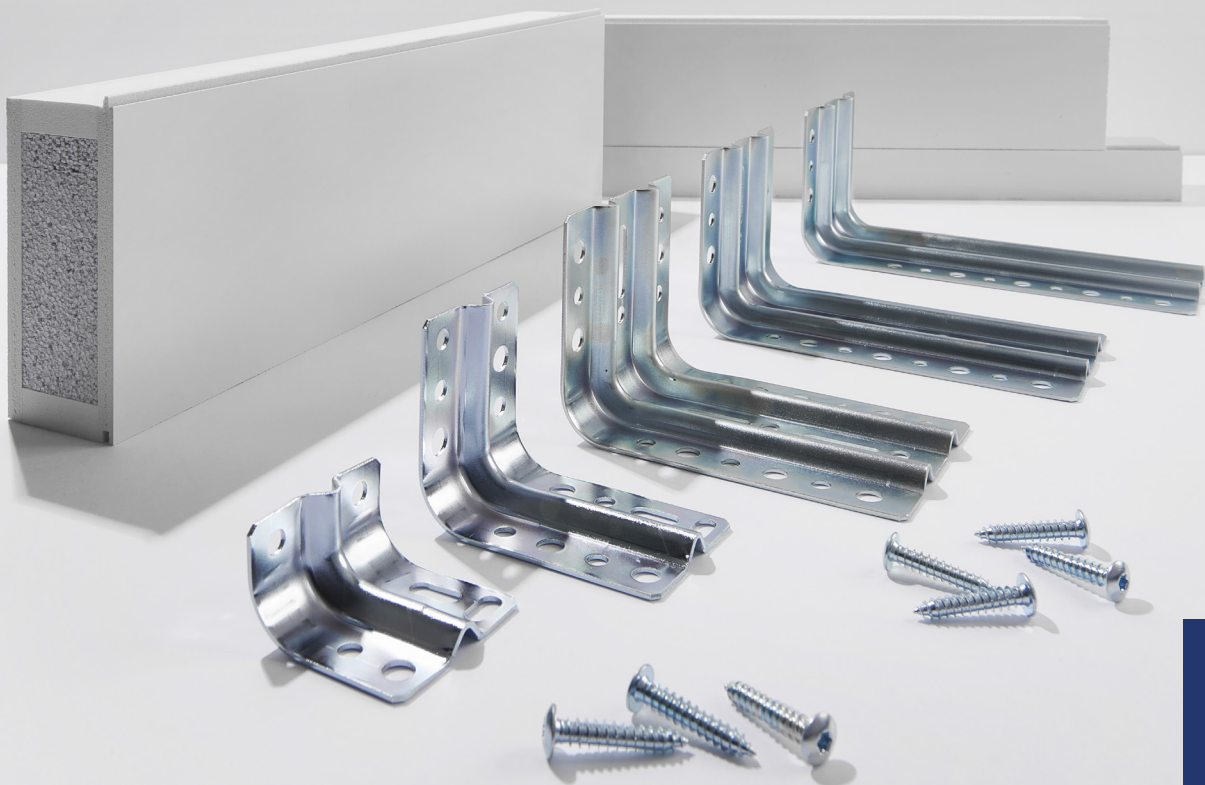
PROFESSIONAL – COMPLIANT – SAFE

Floor-level connection

The blaugelb All-In-One Connection System – The solution for floor-level connections.

Comprising **three products** which, taken individually, already provide convincing results in every respect and offer even more as a team:

- blaugelb Plinth Thermal Insulation Profiles IHP/EPS, PVC/EPS or EPS
- blaugelb Frame screw Fix FK-T30
- blaugelb Assembly bracket



The topics covered in this brochure:

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Wood processors	Page 42 ff.
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ALL-IN
ONE
Anschluss
System



SOG / DRUCK

HORIZONTALE
LASTWERT
PRÜFUNG



Layout of the installation instructions

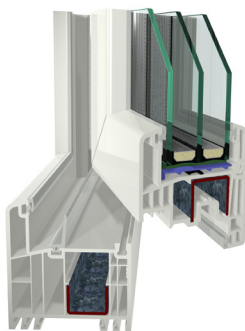
There are three typical installation situations/applications for blaugelb Plinth Thermal Insulation Profiles:

1. Floor-level elements installation situation – **window frame**
2. Floor-level elements installation situation – **threshold**
3. Floor-level elements installation situation – **lifting/sliding door**



We differentiate based on processors in this document, meaning that there is **one chapter each** for:

PVC processors



Wood processors



Aluminium processors



- **blaugelb Plinth Thermal Insulation Profile PVC/EPS**

Overview of the profiles & double applications
Drawing of window frame
Drawing of threshold
Drawing of lifting/sliding door

- **blaugelb Plinth Thermal Insulation Profile IHP/EPS**

Overview of the profiles & double applications
Drawing of window frame
Drawing of threshold
Drawing of lifting/sliding door

- **blaugelb Plinth Thermal Insulation Profile EPS**

Overview of the profiles & double applications
Drawing of window frame
Drawing of threshold
Drawing of lifting/sliding door



CHAPTER I

(Page 12 – 41)

- **blaugelb Plinth Thermal Insulation Profile PVC/EPS**

Overview of the profiles & double applications
Drawing of window frame
Drawing of threshold
Drawing of lifting/sliding door

- **blaugelb Plinth Thermal Insulation Profile IHP/EPS**

Overview of the profiles & double applications
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Drawing of lifting/sliding door

- **blaugelb Plinth Thermal Insulation Profile EPS**

Overview of the profiles & double applications
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Drawing of threshold
Drawing of lifting/sliding door



CHAPTER II

(Page 42 – 71)

- **blaugelb Plinth Thermal Insulation Profile PVC/EPS**

Overview of the profiles & double applications
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Drawing of threshold
Drawing of lifting/sliding door

- **blaugelb Plinth Thermal Insulation Profile IHP/EPS**

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- **blaugelb Plinth Thermal Insulation Profile EPS**

Overview of the profiles & double applications
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Drawing of threshold
Drawing of lifting/sliding door



CHAPTER III

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STANDARDS – Regulations for waterproofing of buildings

The waterproofing of the Plinth Thermal Insulation Profiles to the building structure is of particular significance in the area near the ground due to the increased loads.

Important regulations such as the relevant DIN standards, the flat roof guideline, information sheets from the Deutsche Bauchemie e.V., the Waterproof Concrete Structures Guideline for the planning and execution of buildings made of waterproof concrete etc., are to be observed for the installation and waterproofing in the area near the ground.

There have been some changes to the relevant regulations in recent years. It is only possible to offer a brief overview of the applicable specifications for waterproofing in the event of water loads that are relevant for the installation of laugelb Plinth Thermal Insulation Profiles near the ground. We therefore recommend taking a more detailed look at the normative regulations.

DIN 18355 German construction contract procedures (VOB)

The general technical specifications in construction contracts [ATV] DIN 18355 "Joinery" applies for the installation of components made of wood, plastic and wood/metal structures. These require that the waterproofing between the window frame and the masonry must be all round, permanent and resistant to driving rain (section 3.5.3.1). This also applies for the assembly of the connection between the laugelb Plinth Thermal Insulation Profiles and the window frame as well as for the regulation-compliant fastening.

If waterproofing in accordance with DIN 18195 in combination with DIN 18531 ff. was agreed in addition to the standard waterproofing resistant to driving rain in accordance with DIN 18355 (discipline of window construction), additional regulations must be observed.

DIN 18195 Waterproofing of buildings

The previously valid standard for waterproofing in the area that is in contact with the ground, DIN 18195 "Waterproofing of buildings", was amended in 2017 to become a standardized term and supplemented by the standards DIN 18531 to 18535.

In the new structure, each of these standards DIN 18531 to DIN 18535 refers to only one type of component and contains all the relevant regulations for the planning and execution of the waterproofing for this. This includes the requirements for the waterproofing, for the substrate and other components and furthermore regulations on the impacts and the structural requirements, the waterproofing materials and their processing, the planning and implementation of the waterproofing and the maintenance.

The structure of the new standards:

- DIN 18195: Waterproofing of buildings – Definition of terms
- DIN 18531: Waterproofing of roofs, balconies and walkways
- DIN 18532: Waterproofing of concrete areas trafficable by vehicles
- DIN 18533: Waterproofing of elements in contact with soil
- DIN 18534: Waterproofing for indoor applications
- DIN 18535: Waterproofing of tanks and pools

DIN 18533 Waterproofing of elements in contact with soil

DIN 18533 "Waterproofing of elements in contact with soil" from the new standards is an extremely important set of regulations for waterproofing of the laugelb Plinth Thermal Insulation Profiles against ground moisture and water.

DIN 18533 covers waterproofing against the following impacts:

- ground moisture
- non-pressing water
- outside pressing water

- non-pressing water on earth-covered slabs
- splash water at wall base
- capillary water in and under walls in contact with soil
- earth-covered underground buildings in open construction

The water may act as ground moisture, pressing and non-pressing water, capillary water and splash water.

DIN 18533 does not apply to landfills, earthwork structures, tunnels, facilities for handling water-polluting substances and waterproof components such as waterproof concrete.

The breakdown of the new DIN 18533:

- Part 1: Requirements and principles for design and execution
- Part 2: Waterproofing with waterproofing materials in sheet form
- Part 3: Waterproofing with liquid-applied waterproofing materials

The water impact is classified in Part 1 of the standard. The water impact classes W1 to W4 define the type and intensity of the impact on the component.

The crack widening of existing cracks or the expected formation of new cracks that must be taken into account during planning were defined in four crack classes (R1-E to R4-E). These are assigned crack-bridging classes (RÜ1-E to RÜ4-E) of the waterproofing materials.

The intended use of the component to be waterproofed is divided into three space utilisation classes (RN1-E to RN3-E).

The criteria for the reliability of waterproofing are newly defined. These should make it easier for the planner to select the correct waterproofing technique. Annex B to DIN 18533 contains detailed information on this.

Expansion joints are divided into five deformation classes VK1-E to VK5-E. These deformation classes are assigned to the standards for techniques for waterproofing expansion joints in the respective material parts.

Part 2 of DIN 18533 contains waterproofing with materials in sheet form: bitumen and polymer bitumen sheets, plastic and elastomer sheets.

Part 3 regulates the requirements for waterproofing with polymer-modified bitumen thick coatings, melted asphalt screed and asphalt mastic as well as waterproofing with crack-bridging mineral waterproofing slurries. This also includes the regulations for liquid plastics (FLK).

The application of liquid plastics in accordance with DIN 18533-3 only includes water impact classes W3-E (non-pressing water on earth-covered slabs) and W4-E (splash water and ground moisture at wall base as well as capillary water in and under walls).

In summary, according to DIN 18533 the following criteria are relevant for the selection of the type of waterproofing:

- Water impact class W1 to W4
- Crack class R1-E to R4-E
- Crack-bridging class RÜ1-E to RÜ4-E
- Space utilisation class RN1-E to RN3-E
- Reliability requirements
- Deformation class of the expansion joints VK1-E to VK5-E

DIN 18531 Waterproofing of roofs, balconies and walkways

DIN 18531 "Roof waterproofing" specifies all relevant regulations for application in the area of laugelb Plinth Thermal Insulation Profiles for rooftop terraces and balconies. It is made up of five parts and regulates the planning and execution of roof waterproofing for non-utilised and utilised roofs.

STANDARDS – Regulations for waterproofing of buildings

The breakdown of the new DIN 18531:

- Part 1: Non-utilized and utilized roofs – Requirements and principles for execution and design
- Part 2: Non-utilized and utilized roofs – Materials
- Part 3: Non-utilized and utilized roofs – Selection, execution and detailing
- Part 4: Non-utilized and utilized roofs – Maintenance
- Part 5: Balconies and walkways

Non-utilised roofs are only to be accessed for repair and maintenance purposes. This also includes extensive green roofs. Utilised roofs are accessible rooftops, e.g. rooftop terraces, roofs with intensive planting and possible ebb and flow irrigation up to a height of 10 cm, as well as roofs with technical building installations (solar panels etc.).

DIN 18531 Part 5 describes the rules for waterproofing balconies and walkways. These spaces are not positioned above habitable spaces and therefore required a lower degree of protection. The standard also allows coatings here that do not constitute waterproofing against the penetration of concrete-damaging or corrosive materials into concrete components. Waterproofing materials in sheet form can be used for waterproofing here.

DIN 18531-2 and DIN 18531-3 dictate the following versions of waterproofing for balconies:

- double-layer bitumen or polymer bitumen sheets
- cold self-adhesive polymer bitumen sheets
- various plastic or elastomer sheets in the respective specified minimum thickness
- liquid plastics with a dry layer thickness of at least 2.1 mm or asphalt mastic or melted asphalt from 7 – 15 mm or at least 25 mm thick

Precipitation must not remain on the waterproofing layer for an extended period (exception: intensive green roofs with ebb and flow irrigation). The minimum gradient should be 2 % for this reason.

The formation of puddles is possible due to the permissible flatness tolerances, the deflection of the bearing structure, an existing reverse gradient and unevenness where sheets overlap and are reinforced. A pitch of more than 5 % must be included to avoid these.

DIN 18531 differentiates between the application categories K1 (standard design) and K2 (higher grade design), both for non-utilised and for utilised roofs.

Application category K1 defines roof waterproofing that is subject to the usual requirements. A gradient of at least 2 % is required in application category K1. If the waterproofing of this space corresponds to application category K2, however, roofs of application category K1 can also be planned without a pitch.

The application category K2 contains roof weatherproofing with higher requirements, e.g. for high-rise structures, higher-value building usage, roofs with technical installations or where access is difficult. An extended service life, higher reliability or minimisation of the maintenance effort also require multi-layer design and other building materials for waterproofing with bitumen or polymer bitumen sheets.

A gradient of at least 2 %, in valleys at least 1 %, is also required in application category K2. With intensive green roofs with ebb and flow irrigation up to 10 cm, a slight planned pitch is permissible if the material selection and the execution are designed accordingly.

The material tables now also include EVA sheets with reinforcement, but no longer include homogeneous PVC-P sheets that are not bitumen compatible.

Other currently valid technical specifications such as the flat roof guideline shall retain their validity alongside the standards DIN 18195 and DIN 18531 to DIN 18535. DIN 31051 "Fundamentals of maintenance" must also be observed.

Flat roof guideline 2016

The specialist rules for waterproofing, referred to as the flat roof guideline, are issued by the Zentralverband des Deutschen Dachdeckerhandwerks e.V. – Fachverband Dach-, Wand- und Abdichtungstechnik and the Hauptverband der Deutschen Bauindustrie e.V.

The flat roof guideline is an independent set of rules and is part of the generally accepted technical standards, but does not replace the specifications of the valid DIN standards. It regulates the waterproofing of utilised and non-utilised roofs.

Structure of the flat roof guideline:

- General rules
- Stresses and requirements for waterproofing non-utilised roofs
- Planning and execution of the functional layer for waterproofing utilised roofs and surfaces
- Details
- Care and maintenance
- Annex I: Wind-drag load on roofs with waterproofing (flat roofs)
- Annex II: Detailed sketches

The flat roof guideline already applied to waterproofing of non-utilised roofs (including extensive green roofs) and utilised roof and slab areas, e.g. balconies, terraces and spaces with intensive planting.

The scope now also includes waterproofing of accessible roof and slab areas (e.g. parking decks). Waterproofing of roofs with solar panels and earth-covered slab areas have also been included.

In the new version of the flat roof guideline, the performance levels of waterproofing with liquid plastics (FLK) were expanded. This also affects the waterproofing of windows and doors in the area near the ground where these materials are also used.

Liquid plastics can be used according to both the flat roof guideline and DIN 18531. The waterproofing systems must have European Technical Approval or Assessment (ETA) based on ETAG 005.

The liquid plastics are single or multi-component sealing compounds that are based on reaction resins made of flexible unsaturated polyester resins (UP), polyurethane resins (PUR) or reactive polymethyl methacrylates (PMMA).

Waterproofing with liquid-applied materials must be oriented toward climate zone S (severe climate). The requirements for the resistance with regard to surface temperatures were increased: the temperature range spans from performance level TL4 (min. -30 °C) to TH4 (max. +90 °C).

The required minimum nominal thickness of the waterproofing was redefined in the flat roof guideline as 2.1 mm. There are differences between the flat roof guideline and DIN 18531, however. According to DIN 18531, it is 1.8 to 2.1 mm depending on the application category, use and gradient.

The performance levels required according to ETAG 005 for waterproofing made of liquid plastics differ in DIN 18531 based on impact classes IA, IB, IIA, IIB.

Liquid plastics are subject to CE marking, which indicates certain characteristics such as the minimum dry layer thickness and the proven performance levels, among other things.

STANDARDS – Regulations for waterproofing of buildings

Waterproofing must be applied in two layers. For reinforcement, an insert made of synthetic fibre fleece with a grammage of at least 110 g/m². The application in two layers has no influence on the classification of the liquid plastics as single-layer waterproofing.

The service life and the user load for waterproofing made of liquid plastic remained unchanged. A service life of 25 years (performance level W3) and the special user load (performance level P4) are prescribed – customary for utilised roof areas such as rooftop terraces.

Installation guide

We refer you to the installation guide from RAL-Gütegemeinschaft Fenster und Haustüren for the formation and waterproofing of connections on windows and doors in the area near the ground.

Chapter 3.1.3, for example, clearly presents the requirements and regulations, whereby the current version from 2014 still refers to the previous form of DIN 18195, as well as to DIN 18040 for barrier-free building.

PROFESSIONAL COMPLIANT SAFE

Window installation with blaugelb – for smooth, long-lasting installation according to the state of the art.

PROFESSIONAL

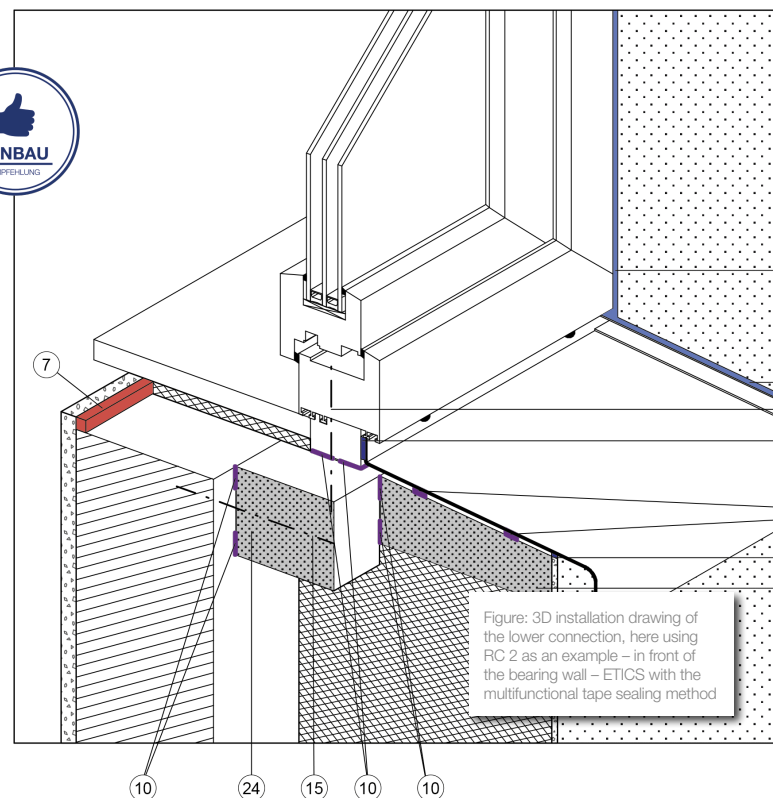
State-of-the-art, avoiding known problem situations and selecting the right variant of sealing based on installation drawings.

COMPLIANT

Numerous standards and specifications that need to be observed – summarised and to the point.

SAFE

ETB – “Components providing fall arrest protection”, RC 2 classified installations – explained in an easy-to-understand manner including the fastening points required.



Advertisement



Expert fastening and sealing of windows is growing increasingly complex thanks to numerous specifications, higher technology standards and a reconsideration of what it means to be sustainable and environmentally friendly. In the blaugelb brochure PROFESSIONAL – COMPLIANT – SAFE we are focussing on the topic of window installation and the associated professional and compliant fastening and sealing.



If you are interested in this exclusive brochure, please contact your field service or write to us

info@blaugelb.de

Accessories for processing blaugelb Plinth Thermal Insulation Profiles

The blaugelb Spacer Block



The blaugelb Spacer Blocks with a thickness of 1.5 mm to 20 mm are intended for vertical alignment and safe load transfer for **threshold and frame elements**. The Spacer Blocks can be combined with one another here so that adjustment with precision to the millimetre is possible. Thanks to the fluted surface, the blaugelb Spacer Blocks do not slide off one another and heavy elements are also not a problem thanks to their outstanding pressure resistance.

The blaugelb Spacer Block is additionally used with the blaugelb Plinth Thermal Insulation Profile PVC/EPS for fastening at the window frame. It prevents the blaugelb Frame screw Fix FK-T30 from being pulled through the EPS insulation. We recommend the blaugelb Spacer Block with the dimensions 40 x 60 x 10 mm for fastening with the blaugelb Frame screw Fix FK-T30 in the corresponding length as the flat head protrudes approx. 2 mm past the Plinth Thermal Insulation Profile PVC/EPS; this renders the transport of the window elements considerably safer and easier as the Plinth Thermal Insulation Profiles make contact with the screw heads and can be shifted.

Product name	PU	Item no.
blaugelb Spacer Block 40x60x1.5 mm white	1,000 piece	0416297
blaugelb Spacer Block 40x60x2 mm blue	1,000 piece	0418762
blaugelb Spacer Block 40x60x3 mm red	1,000 piece	0416299
blaugelb Spacer Block 40x60x5 mm green	1,000 piece	0416310
blaugelb Spacer Block 40x60x10 mm brown	500 piece	0416311
blaugelb Spacer Block 40x60x15 mm grey (with mesh)	500 piece	0418764
blaugelb Spacer Block 40x60x20 mm black (with mesh)	500 piece	0418766

The blaugelb Shim Blocks for lifting/sliding doors

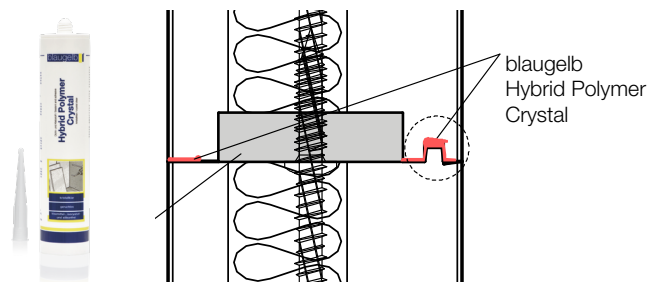


If heavy **lifting/sliding elements** are used, we recommend blaugelb Shim Blocks HST with a thickness from 1 mm to 20 mm, in 3 different depths of 140, 170 and 210 mm for the vertical alignment and safe load transfer

for lifting/sliding door elements. Thanks to the fluted surface, the blaugelb Shim Blocks HST do not slide off one another and heavy elements are also not a problem thanks to their outstanding pressure resistance.

Product name	PU	Item no.
blaugelb Shim Block HST 53x140x1 mm white	250 piece	9034431
blaugelb Shim Block HST 53x140x2 mm blue	250 piece	9034432
blaugelb Shim Block HST 53x140x3 mm red	250 piece	9034433
blaugelb Shim Block HST 53x140x5 mm green	250 piece	9034454
blaugelb Shim Block HST 53x140x10 mm brown	100 piece	9034455
blaugelb Shim Block HST 53x140x20 mm black	100 piece	9034456
blaugelb Shim Block HST 53x170x1 mm white	250 piece	9034457
blaugelb Shim Block HST 53x170x2 mm blue	250 piece	9034458
blaugelb Shim Block HST 53x170x3 mm red	250 piece	9034459
blaugelb Shim Block HST 53x170x5 mm green	250 piece	9034460
blaugelb Shim Block HST 53x170x10 mm brown	100 piece	9034461
blaugelb Shim Block HST 53x170x20 mm black	100 piece	9034462
blaugelb Shim Block HST 53x210x1 mm white	250 piece	9034463
blaugelb Shim Block HST 53x210x2 mm blue	250 piece	9034464
blaugelb Shim Block HST 53x210x3 mm red	250 piece	9034465
blaugelb Shim Block HST 53x210x5 mm green	250 piece	9034466
blaugelb Shim Block HST 53x210x10 mm brown	100 piece	9034467
blaugelb Shim Block HST 53x210x20 mm black	100 piece	9034468

The blaugelb Hybrid Polymer Crystal



For **airtight sealing** between the frame, threshold or lifting/sliding door threshold and the blaugelb Plinth Thermal Insulation Profile, the blaugelb Hybrid Polymer Crystal is intended for proper installation.

With the **double application of the blaugelb Plinth Thermal Insulation Profiles**, the blaugelb Hybrid Polymer Crystal is also used for airtight sealing on the tongue and groove side.

Product name	PU	Item no.
blaugelb Hybrid Polymer Crystal 290 ml crystal clear	12 cartridges	0426600

Accessories for processing blaugelb Plinth Thermal Insulation Profiles

The blaugelb Window Construction Screw Gimlet Bit



The connection between the threshold systems and the blaugelb Plinth Thermal Insulation Profiles is always performed from the threshold side toward the blaugelb Plinth Thermal Insulation Profile. We recommend using the blaugelb Window Construction Screw in the dimensions 4.0 x 45 mm or 4.0 x 50 mm, which guarantees outstanding screw withdrawal values:

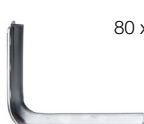
Screw withdrawal value: blaugelb Window Construction Screw 4.0x40 mm 28 mm vertical screw-in depth	2,150 N
Screw withdrawal value: blaugelb Window Construction Screw 4.0x40 mm 17 mm vertical screw-in depth	1,750 N

Product name	PU	Item no.
blaugelb Window Construction Screw Gimlet Bit 4.0x45 mm	500 piece	9051261
blaugelb Window Construction Screw Gimlet Bit 4.0x50 mm	500 piece	9051262

The blaugelb Assembly bracket



40 x 60 mm



80 x 100 mm



156.5 x 100 mm

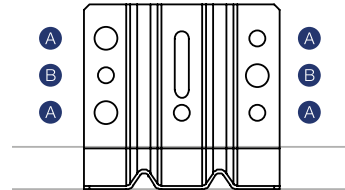


200 x 100 mm



240 x 100 mm

Screwing the blaugelb Assembly bracket onto the Plinth Thermal Insulation Profile:



A blaugelb Plinth Thermal Insulation Profile IHP/EPS or Plinth Thermal Insulation Profile EPS

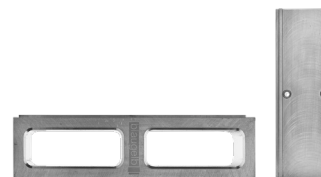
4x blaugelb Frame screw Fix FK-T30

B blaugelb Plinth Thermal Insulation Profile PVC/EPS

2x blaugelb Frame screw Fix FK-T30

Product name	PU	Item no.
blaugelb Assembly bracket 40x60 mm	100 piece	9068972
blaugelb Assembly bracket 80x100 mm	50 piece	9068973
blaugelb Assembly bracket 156.5x100 mm	40 piece	9069054
blaugelb Assembly bracket 200x100 mm	25 piece	9069055
blaugelb Assembly bracket 240x100 mm	25 piece	9069056
blaugelb Frame screw Fix FK-T30 7.5x42 mm galv.	100 piece	0422310
blaugelb Frame screw Fix FK-T30 7.5x62 mm galv.	100 piece	0422314

The blaugelb Drilling Template SDP PVC/EPS



The blaugelb Drilling Template SDP PVC/EPS allows thresholds to be fitted on the blaugelb 60 mm, 64 mm, 68 mm and 74 mm Plinth Thermal Insulation Profiles PVC/EPS quickly, easily and precisely.

Product name	PU	Item no.
blaugelb Drilling Template SDP PVC/EPS 60 mm	1 piece	9072329
blaugelb Drilling Template SDP PVC/EPS 64 mm	1 piece	0419413
blaugelb Drilling Template SDP PVC/EPS 68 mm	1 piece	0419417
blaugelb Drilling Template SDP PVC/EPS 74 mm	1 piece	9020270

For the holes we recommend a special chip-removing ground finish (e.g. using a twist drill DIN1869 HSS-G extra long, item no. 0417239 for drilling extremely deep holes under difficult drilling conditions such as poor chip removal).

Accessories for processing blaugelb Plinth Thermal Insulation Profiles

Horizontal load value test, suction/pressure

Our **blaugelb Frame screw Fix FK-T30** is part of the testing according to the ETB guideline: 1985 and DIN 4103-1: 2015 in ensemble. It is also tested for the assembly of RC2 approved construction elements.

Together with the **blaugelb Assembly bracket** and the **blaugelb Plinth Thermal Insulation Profiles IHP/EPS, PVC/EPS or EPS**, they form a strong and proven team that you can build on.

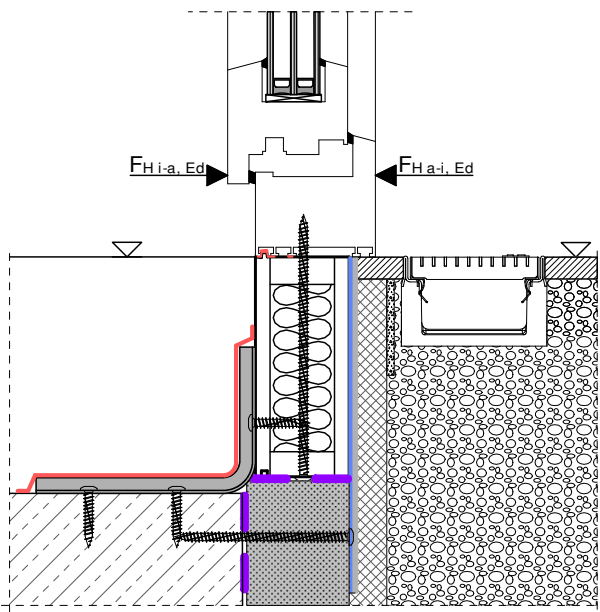
Our strong team in ensemble –
for reliable results.



blaugelb Assembly bracket, blaugelb Plinth Thermal Insulation Profile IHP/EPS and blaugelb Frame screw Fix FK-T30 in ensemble

Installation situation in front of the supporting wall structure

Our window connection with the blaugelb Assembly bracket, blaugelb Plinth Thermal Insulation Profile IHP/EPS and blaugelb Frame screw Fix FK-T30



For more information,
visit

www.blaugelb.de

Profile overview of the blaugelb Plinth Thermal Insulation Profiles

FRAME MATERIAL	PROFILE SYSTEM	Plinth Thermal Insulation Profile width/ construction depth in mm				
		50 mm	60 mm	64 mm	68 mm	74 mm
PVC	Aluplast 4000		■			
	Aluplast 5000		■			
	Aluplast 7000			■	■	
	Aluplast 8000			■	■	
	Gealan 8000		■			
	Gealan 9000			■		
	Inoutic Eforte			■		
	Inoutic Elegante			■		
	Inoutic Prestige		■	■		
	Profine 76			■		
	Profine 88					■
	Rehau Geneo 86				■	
	Rehau Synego				■	
	Salamander bluEvolution 82			■		
	Salamander bluEvolution 92				■	
	Salamander Streamline 76			■		
	Schüco Corona CT 70 AS		■			
	Schüco Corona SI 82			■		
	Schüco LivIng			■		
	VEKA Softline 70		■			
	VEKA Softline 76			■		
	VEKA Softline 82				■	
WOOD	Note on wood frame materials: Due to the high degree of individualisation of wood profiles, the Plinth Thermal Insulation Profiles are assigned individually.					
ALU-MINI-UM	Akotherm AT 740		■	■		
	Alcoa AA 720 HI		■	■		
	Aluprof MB-70		■	■		
	Aluprof MB-86			■		
	Aluprof MB-104			■	■	■
	GUTMANN S80+		■	■		
	Heroal 72		■	■		
	HUECK Lambda WS 75		■	■		
	Raico FRAME+ 75		■	■		
	Reynaers CS 86-HI			■		
	Reynaers MasterLine 8			■		
	Schüco AWS 75		■	■		
	Schüco aluminium front door thresholds	■				
	Sykon Sykotherm70		■	■		
	TKI 755		■	■		
	WICSTYLE 75 evo		■	■		

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.0.1. Product features

The blaugelb Plinth Thermal Insulation Profile PVC/EPS (expanded rigid polystyrene foam) offers the best possible heat and moisture protection on front and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile PVC/EPS consists of an EPS rigid foam core and two layers of poplar plywood coated on the outside with a PVC plastic. The poplar plywood has IW67 bonding quality and is bonded with an adhesive of D3 quality (EN 204-D3).



The blaugelb Plinth Thermal Insulation Profile PVC/EPS must be fitted in such a way that the fitting conditions for its useful life conform to use classes 0 or 1 according to DIN 68800-1:2011 or service class 1 according to DIN EN 1995-1-1:2010.

Product benefits:

Benefits of plinth thermal insulation using the Plinth Thermal Insulation Profile PVC/EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile PVC/EPS prevents damage caused by moisture and mould

Benefits of a groove/spacer block connection:

- Quick and easy assembly as a drilling template is not required
- Only one screw required for each fastening point
- Elements slide more easily across the substrate on screw heads

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

Surface and cover plate:	1 mm PVC VEKA on both sides and 12 or 24 mm plywood panel, IW67
Thermal insulation:	EPS perimeter 30 kg/m³, intensive expanded rigid polystyrene foam
Gluing:	IW67 waterproof D3 (EN204-D3)
blaugelb Plinth Thermal Insulation Profile 60 mm thickness:	1 mm 24 mm 22 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 64 mm thickness:	1 mm 24 mm 26 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 68 mm thickness:	1 mm 24 mm 30 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 74 mm thickness:	1 mm 24 mm 36 mm 12 mm 1 mm
Thermal conductivity U value at 60 mm:	0.888 W/m²K
Thermal conductivity U value at 64 mm:	0.802 W/m²K
Thermal conductivity U value at 68 mm:	0.731 W/m²K
Thermal conductivity U value at 74 mm:	0.645 W/m²K
Screw withdrawal value SPT 4.3x40 at a vertical engagement depth of 28 mm:	2,150 N
Screw withdrawal value FBFK 7.5x62 at a horizontal engagement depth of 40 mm:	3,526 N
Pressure resistance:	5,000 kg/m

If carried out properly according to DIN 18195-4 and based on DIN 68800-2 fig. A.11-14, sealing offers sufficient protection against moisture, **particularly for:**

- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

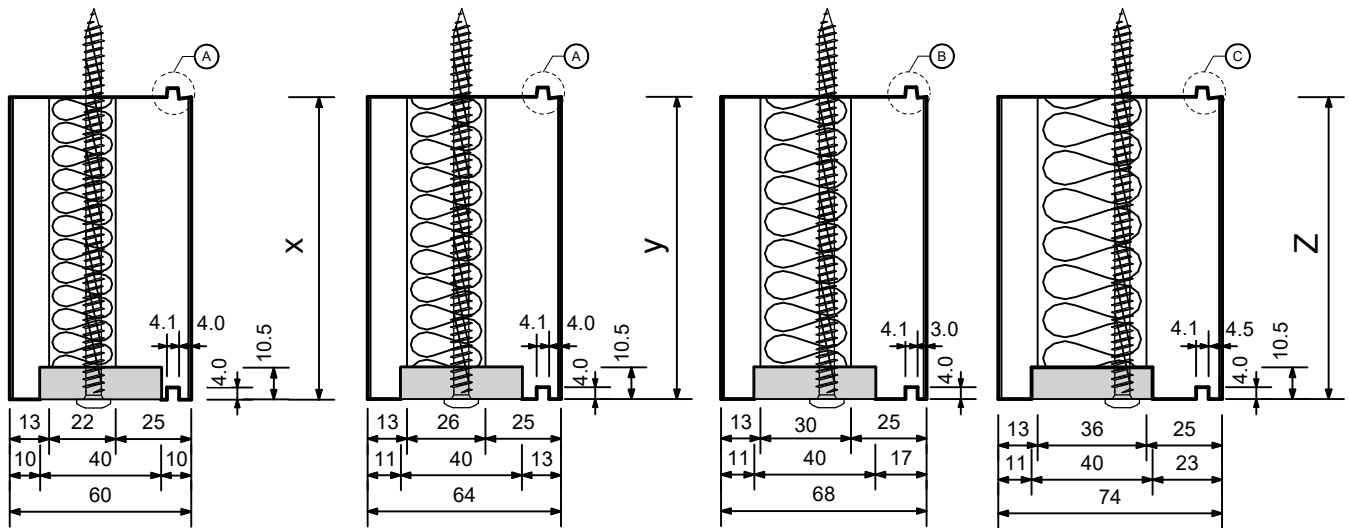
If carried out properly, sealing on the inside and outside between the blaugelb Plinth Thermal Insulation Profile PVC/EPS at the top and the elements at the bottom ensures lasting impermeability provided that sealing is performed in accordance with DIN 18195-4.

Cross-section of a blaugelb Plinth Thermal Insulation Profile PVC/EPS:

PVC	Pappel-Sperholz	EPS-Hartschaumkern	Pappel-Sperholz	PVC
1 mm	24 mm	22 mm bzw. 26 mm bzw. 30 mm bzw. 36 mm	12 mm	1 mm

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile PVC/EPS



x: 50/100/130/150/180

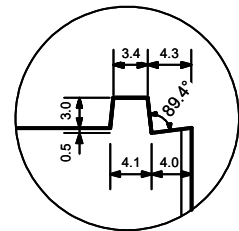
y: 50/100/130/150/165/180

z: 100/130/150/180

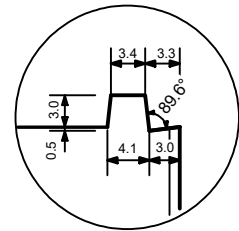
The blaugelb Frame screw Fix FK-T30 is intended to protrude because of the blaugelb Spacer Block used. If this is not desired for construction reasons, a Spacer Block with a smaller height (5 mm) must be used.

Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x50x60 mm	1 piece	9070180
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x60 mm	1 piece	9070181
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x60 mm	1 piece	9070182
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x60 mm	1 piece	9070183
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x60 mm	1 piece	9070184
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x50x64 mm	1 piece	9052718
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x64 mm	1 piece	0413898
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x64 mm	1 piece	0413899
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x64 mm	1 piece	0413900
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x165x64 mm	1 piece	9068730
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x64 mm	1 piece	0413901
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x68 mm	1 piece	0413902
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x68 mm	1 piece	0413903
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x68 mm	1 piece	0413904
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x68 mm	1 piece	0413905
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x74 mm	1 piece	0433175
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x74 mm	1 piece	0433176
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x74 mm	1 piece	0433177
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x74 mm	1 piece	0433178
Twist drill DIN 1869 HSS-G extra long D = 6 mm, L = 330 mm	1 piece	0417239
Bit 867/4 TX30 70 mm	1 piece	6601006844

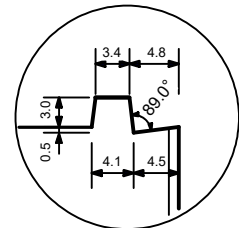
Detail A



Detail B

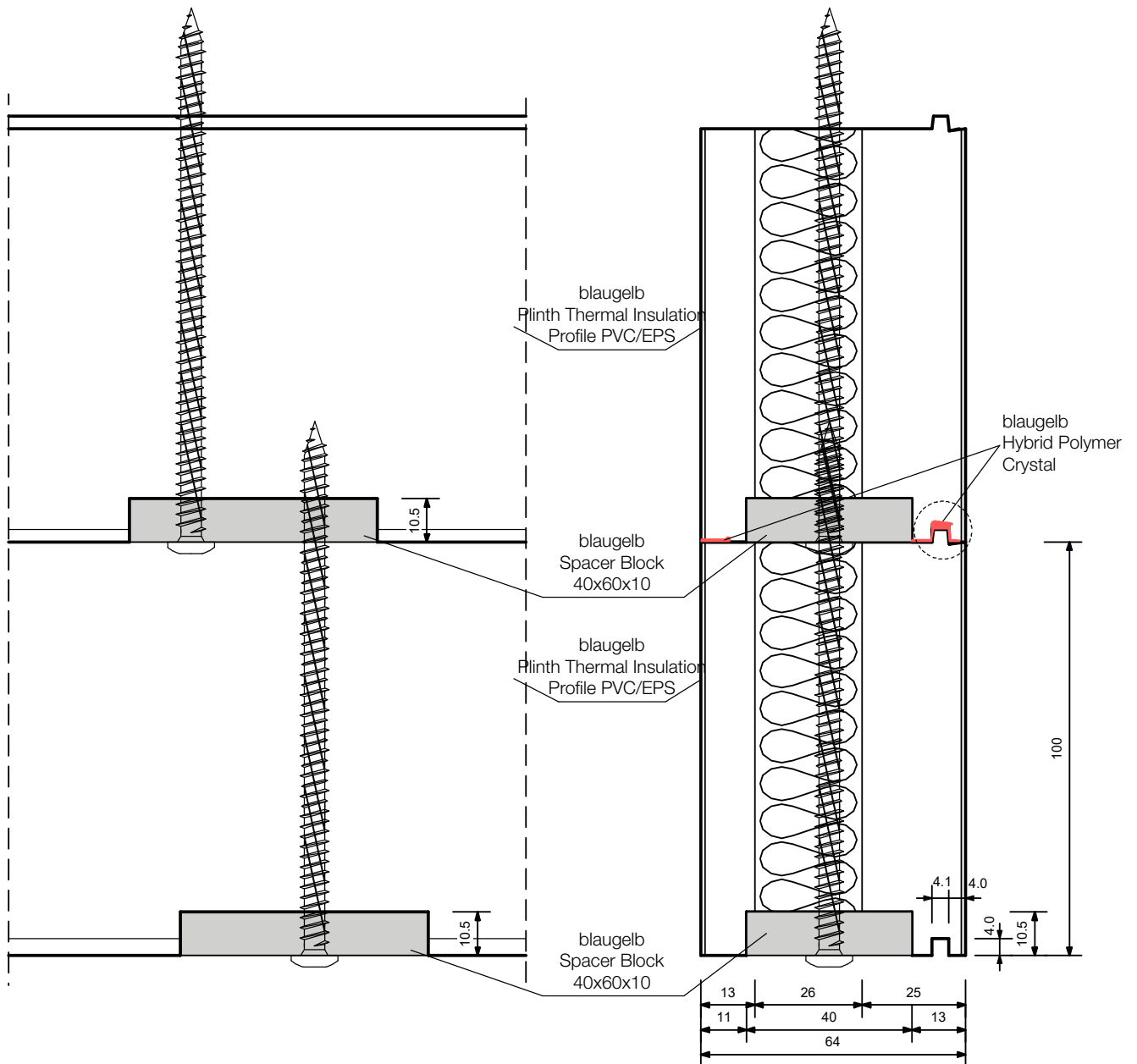


Detail C

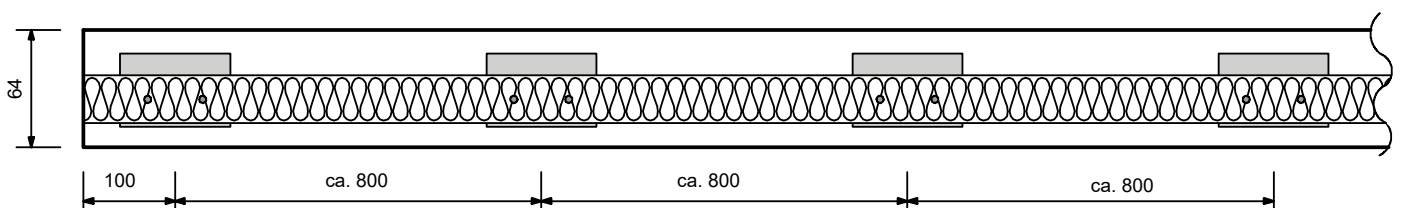


PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

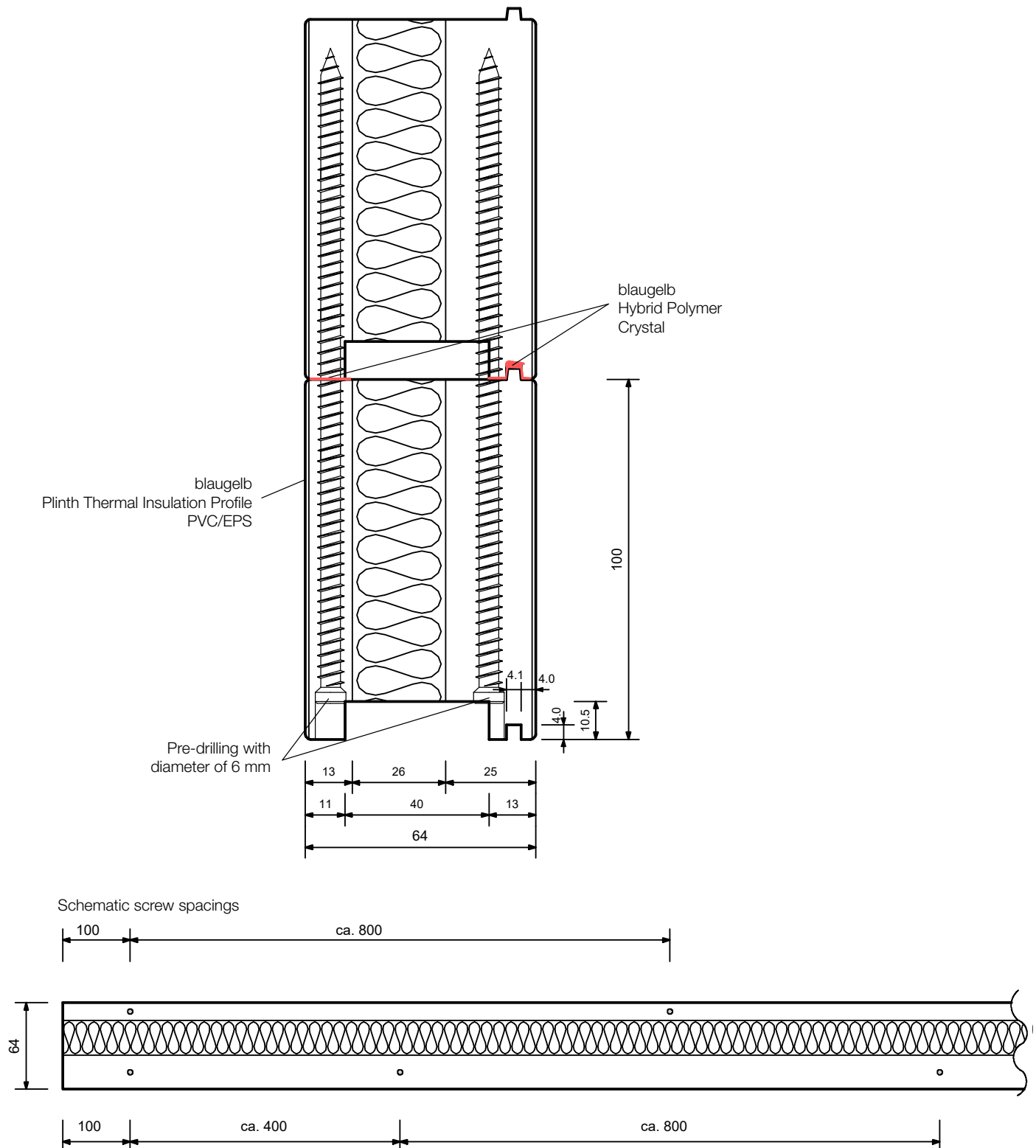
1.1.0.3. Double application with window frames and lifting/sliding doors



Schematic screw spacings

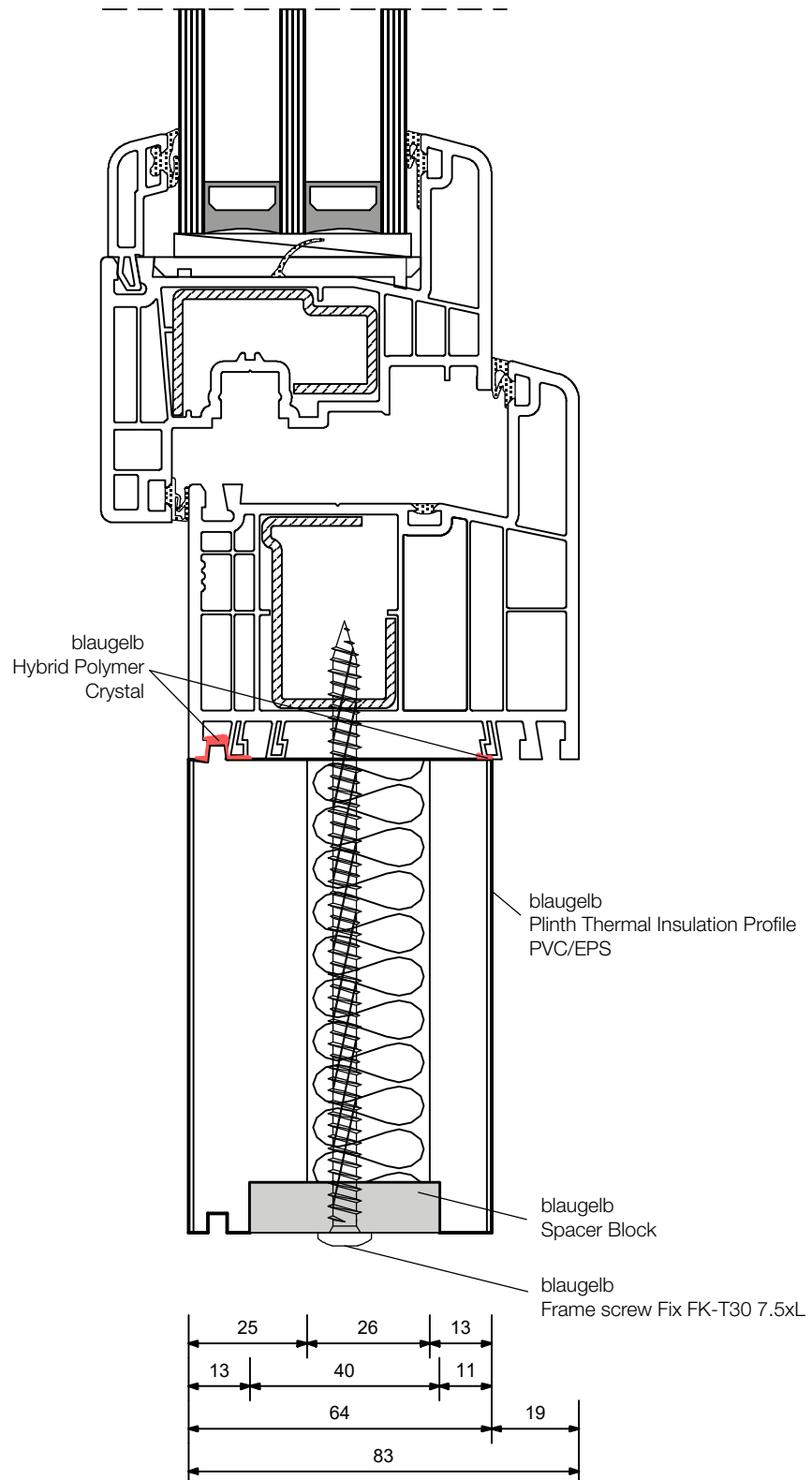


PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.0.4. Double application with threshold

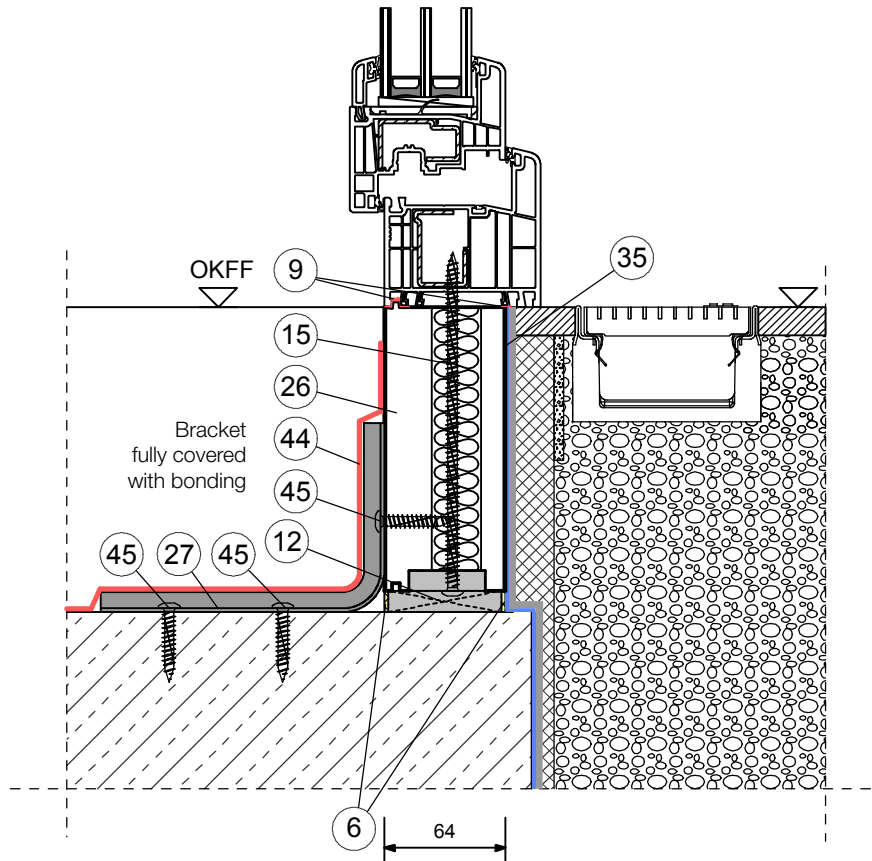
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.1. Window frame installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.1. Window frame installation situation

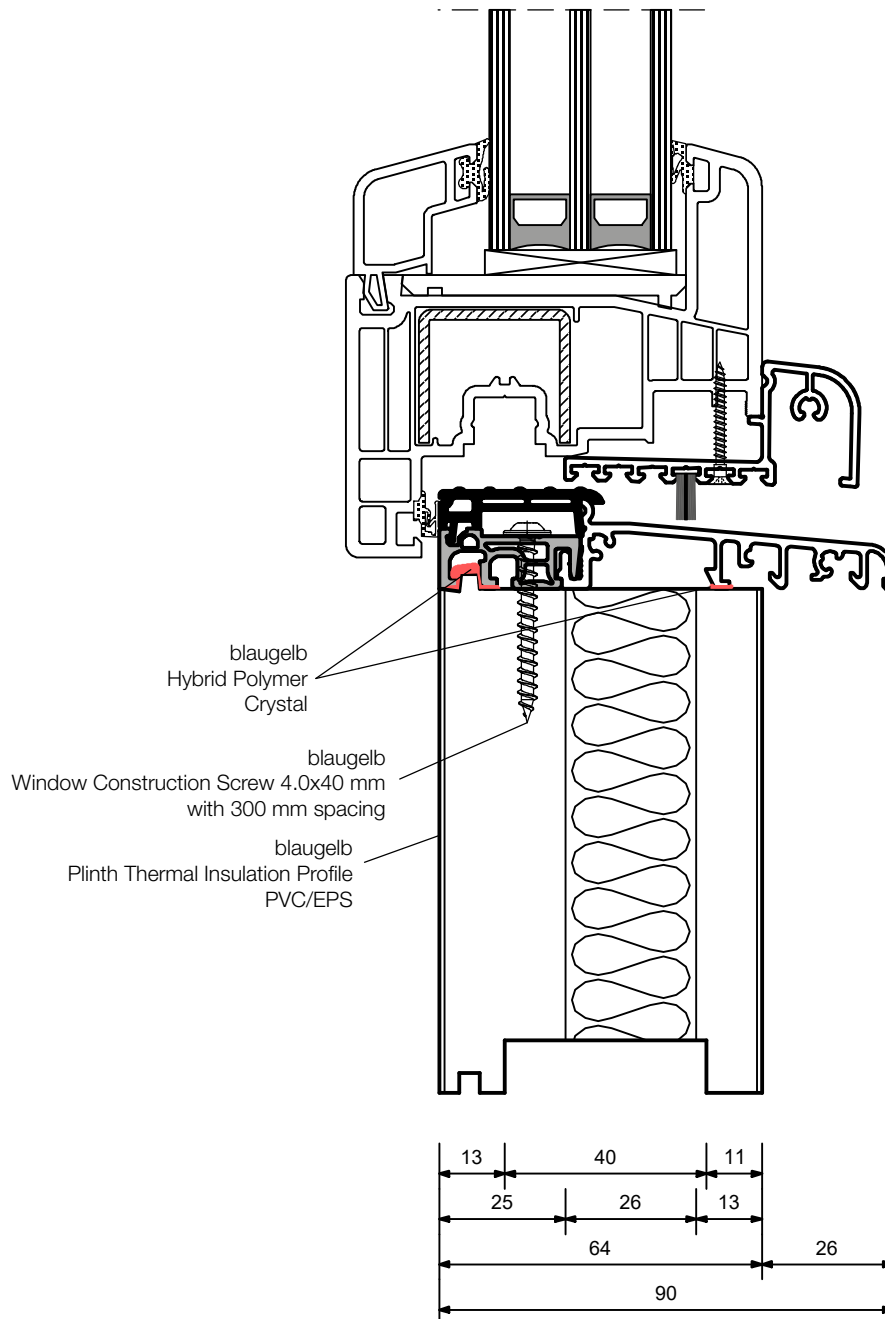


- 6** | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- 9** | blaugelb Hybrid Polymer Crystal
- 12** | blaugelb Spacer Block
- 15** | blaugelb Frame screw Fix FK-T30 7.5xL
- 26** | blaugelb Plinth Thermal Insulation Profile PVC/EPS

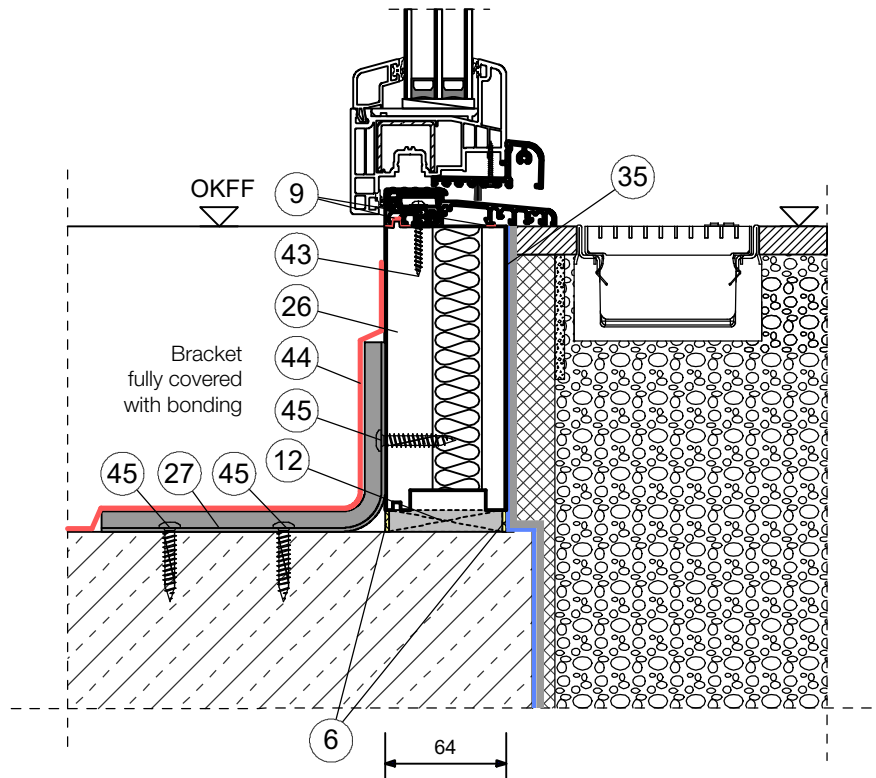
- 27** | blaugelb Assembly bracket 156.5x100 mm
- 35** | Waterproofing according to DIN 18533
- 44** | blaugelb Foil Duo^{SL}1050 Power One
- 45** | blaugelb Frame screw Fix FK-T30 7.5x42 mm

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.2. Threshold installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

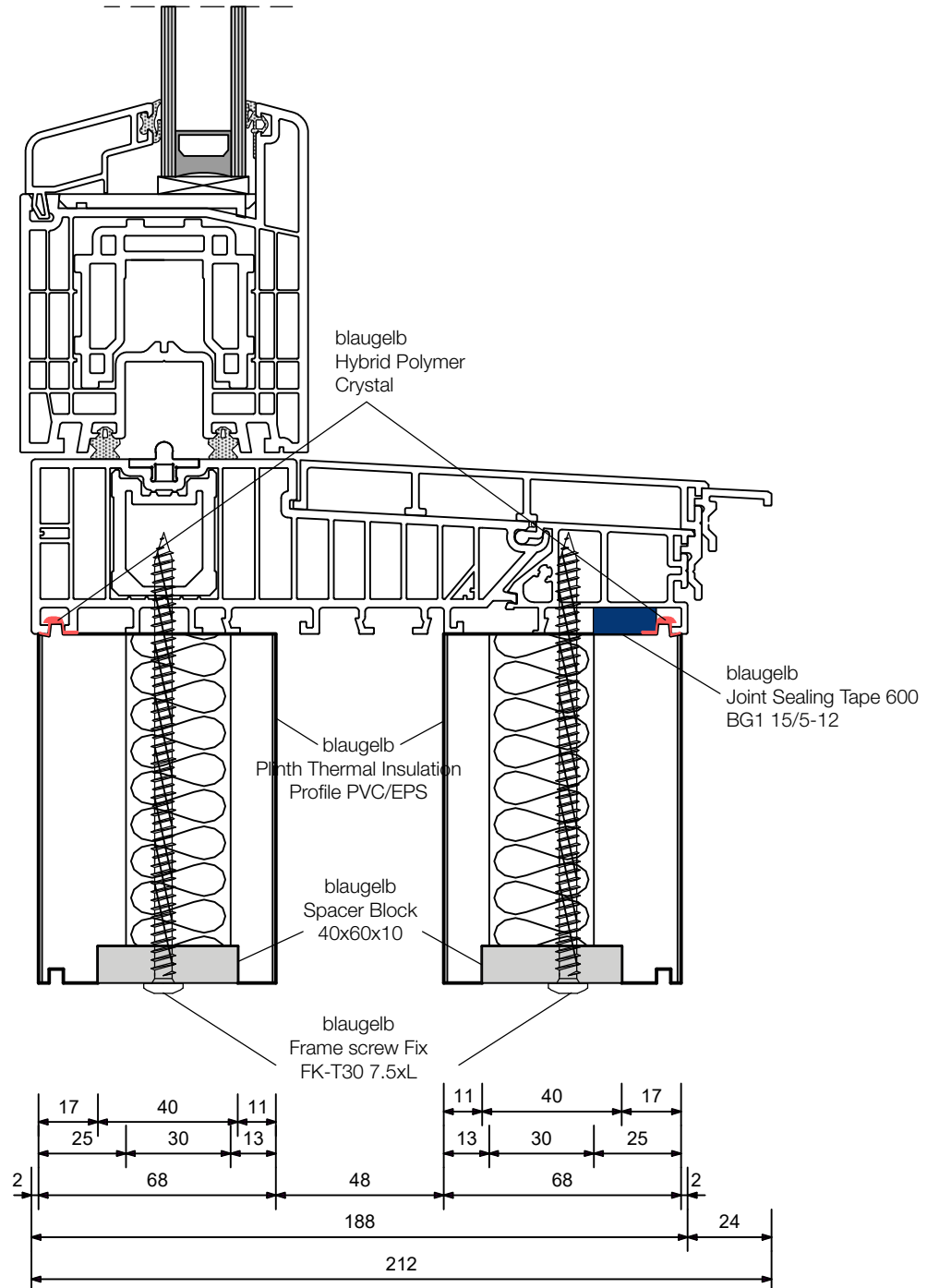
1.1.2. Threshold installation situation

- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑫ | blaugelb Plinth Thermal Insulation Profile PVC/EPS

- ⑫ | blaugelb Assembly bracket 156.5x100 mm
- ⑫ | Waterproofing according to DIN 18533
- ⑫ | blaugelb Foil Duo^{SL} 1050 Power One
- ⑫ | blaugelb Frame screw Fix FK-T30 7.5x42 mm

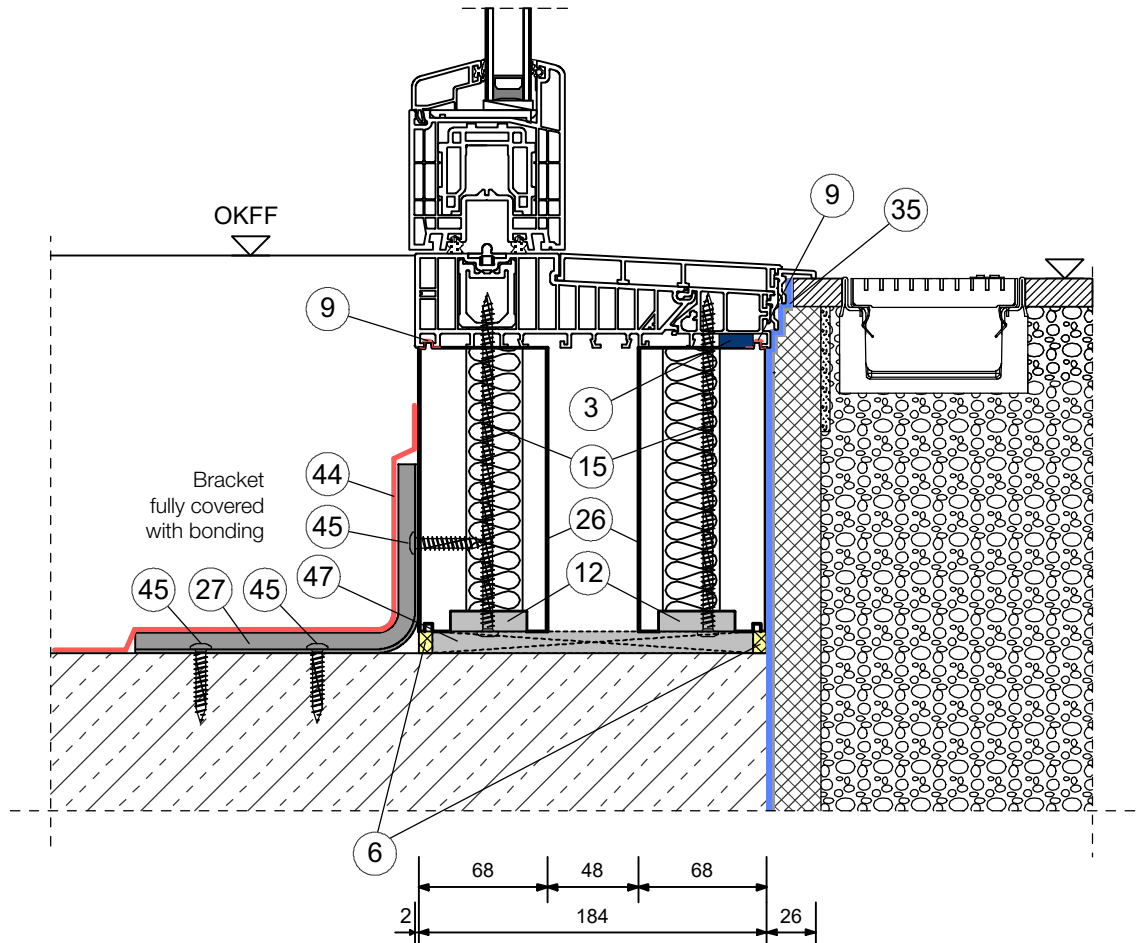
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.3. Lifting/sliding door installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

1.1.3. Lifting/sliding door installation situation



- | | | | |
|---|--|----|--|
| ③ | blaugelb Joint Sealing Tape 600 BG1 15/5-12 mm | ②7 | blaugelb Assembly bracket 156.5x100 mm |
| ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E | ③5 | Waterproofing according to DIN 18533 |
| ⑨ | blaugelb Hybrid Polymer Crystal | ④4 | blaugelb Foil Duo ^{SL} 1050 Power One |
| ⑫ | blaugelb Spacer Block | ④5 | blaugelb Frame screw Fix FK-T30 7.5x42 mm |
| ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL | ④7 | blaugelb Shim Block HST 170 mm |
| ⑳ | blaugelb Plinth Thermal Insulation Profile PVC/EPS | | |

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.1. Product features

The blaugelb Plinth Thermal Insulation Profile IHP/EPS (integral rigid foam board/expanded rigid polystyrene foam) offers the best possible heat and moisture protection on house and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile IHP/EPS is comprised of an EPS rigid foam core and two layers of integral rigid foam board. The integral rigid foam board has IW67 bonding quality and is bonded with an adhesive of D3 quality (EN 204-D3).



Product benefits:

Benefits of plinth thermal insulation using the Plinth Thermal Insulation Profile IHP/EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile IHP/EPS prevents damage caused by moisture and mould

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

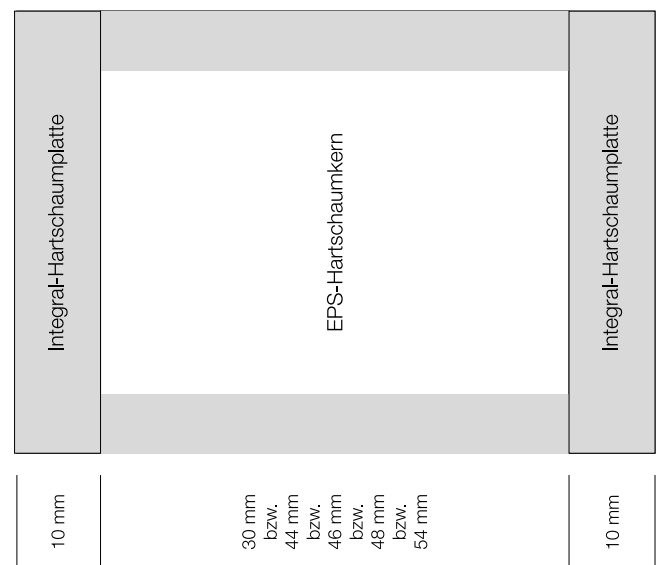
Surface and cover plate:	on both sides 10 mm IHP white
Thermal insulation:	EPS perimeter 30 kg/m³, intensive expanded rigid polystyrene foam
Gluing:	IW67 waterproof D3 (EN204-D3)
blaugelb Plinth Thermal Insulation Profile 50 mm thickness:	10 mm 30 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 64 mm thickness:	10 mm 44 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 66 mm thickness:	10 mm 46 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 68 mm thickness:	10 mm 48 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 74 mm thickness:	10 mm 54 mm 10 mm
Thermal conductivity U value at 50 mm:	0.733 W/m²K
Thermal conductivity U value at 64 mm:	0.559 W/m²K
Thermal conductivity U value at 66 mm:	0.548 W/m²K
Thermal conductivity U value at 68 mm:	0.523 W/m²K
Thermal conductivity U value at 74 mm:	0.478 W/m²K
Screw withdrawal value: SPT 4.3x40 at a vertical engagement depth of 17 mm	1,750 N
Screw withdrawal value: Frame Screw Fix FK-T30 2x 7.5x42	3,240 N
Pressure resistance:	4,600 kg/m

If carried out properly according to DIN 18531 and based on DIN 68800-2 fig. A.11-14, sealing offers sufficient protection against moisture, particularly for:

- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

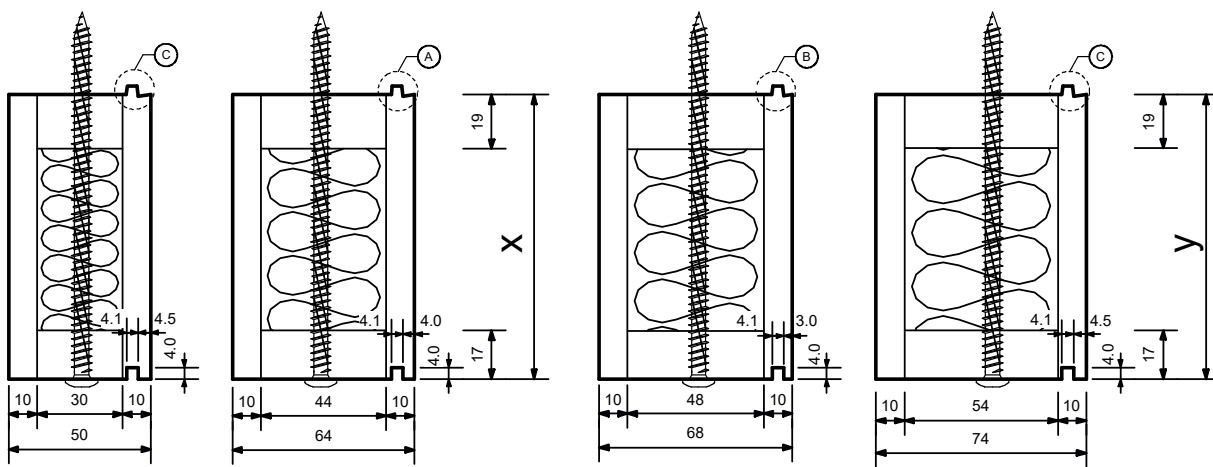
If carried out properly, sealing on the inside and outside between the blaugelb Plinth Thermal Insulation Profile IHP/EPS at the top and the elements at the bottom ensures lasting impermeability provided that sealing is performed in accordance with DIN 18531.

Cross-section of a blaugelb Plinth Thermal Insulation Profile IHP/EPS:



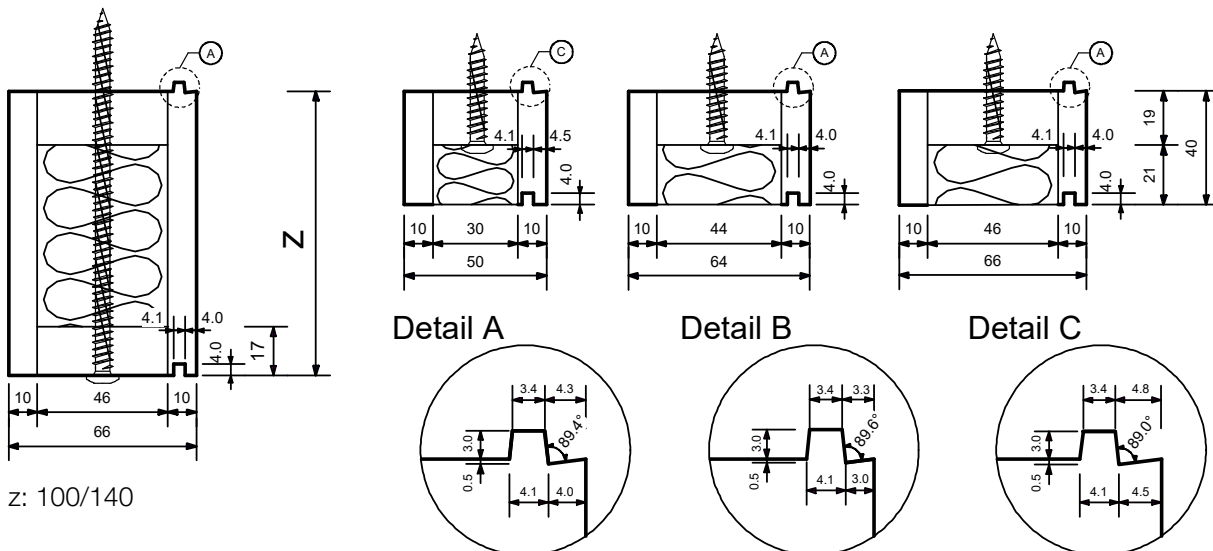
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.0.1. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile IHP/EPS



x: 100/130/140/150/180

y: 100/130/150/180



z: 100/140

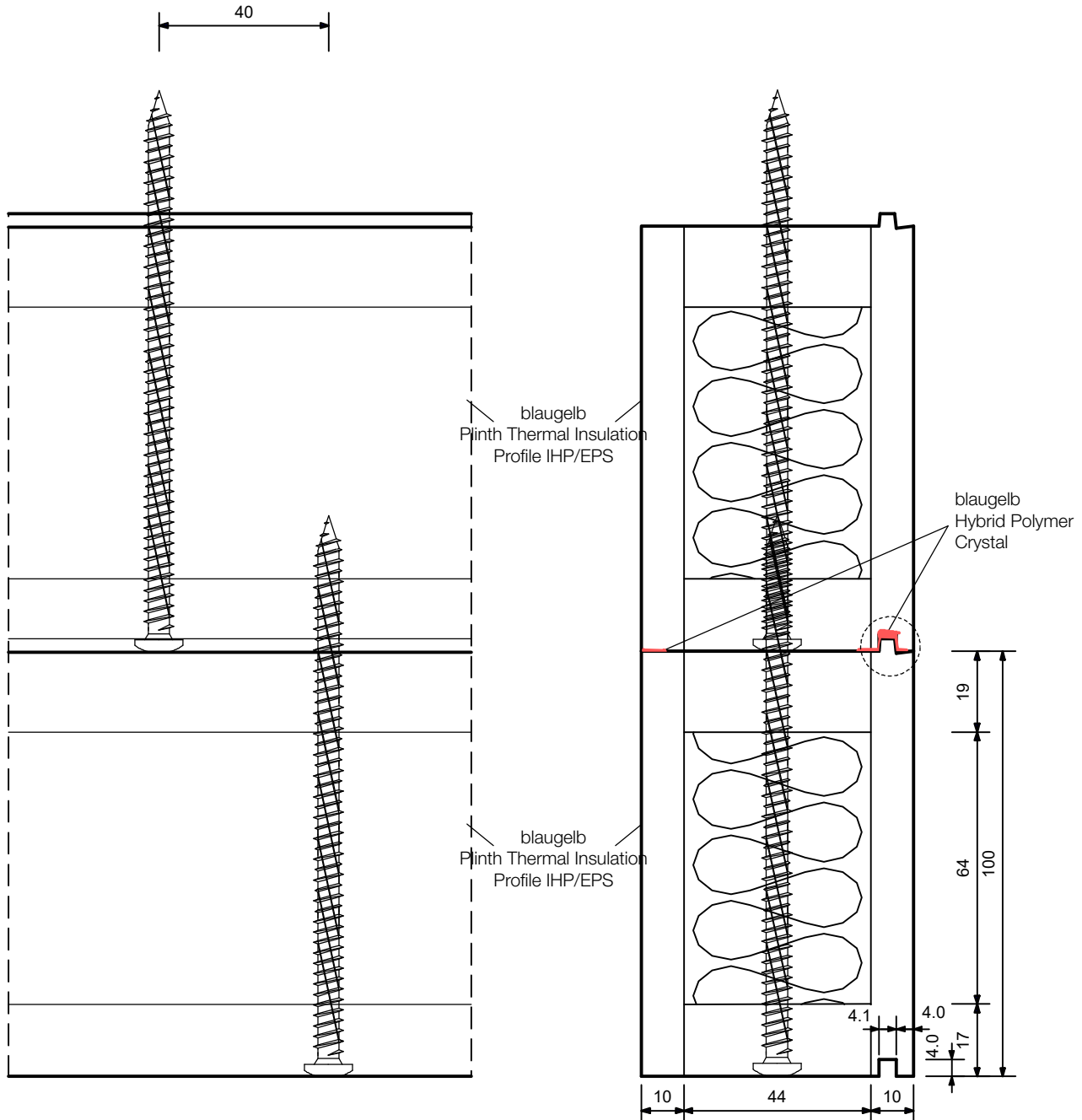
The blaugelb Frame screw Fix FK-T30 is intentionally flush with the head on the profile. If this is not desired for construction reasons, the screw can also be completely countersunk.

Product name	PU	Item no.	Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x50 mm*	1 piece	9066449	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x66 mm	1 piece	9072829
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x50 mm	1 piece	9066450	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x66 mm	1 piece	9072830
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x50 mm	1 piece	9066451	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x68 mm	1 piece	9052723
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x50 mm	1 piece	9066452	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x68 mm	1 piece	9052764
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x50 mm	1 piece	9066453	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x68 mm	1 piece	9052765
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x50 mm	1 piece	9066554	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x68 mm	1 piece	9052766
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x64 mm*	1 piece	9066447	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x74 mm	1 piece	9052767
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x64 mm	1 piece	9052719	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x74 mm	1 piece	9052768
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x64 mm	1 piece	9052720	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x74 mm	1 piece	9052769
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x64 mm	1 piece	9066448	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x74 mm	1 piece	9052770
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x64 mm	1 piece	9052721			
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x64 mm	1 piece	9052722			
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x66 mm	1 piece	9072828			
			Twist drill DIN 1869 HSS-G extra long D = 6 mm, L = 330 mm	1 piece	0417239

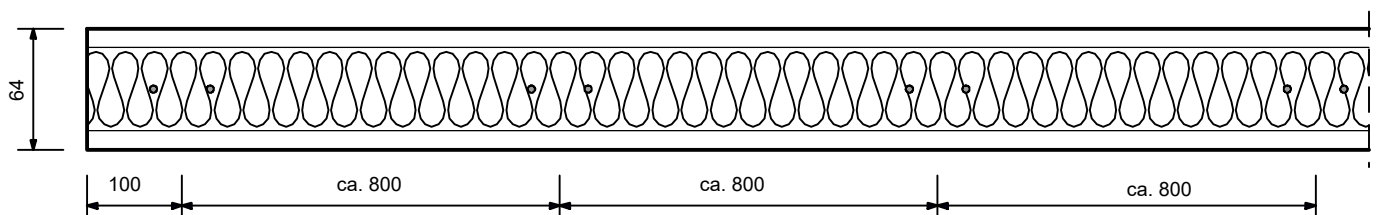
*without base bar

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

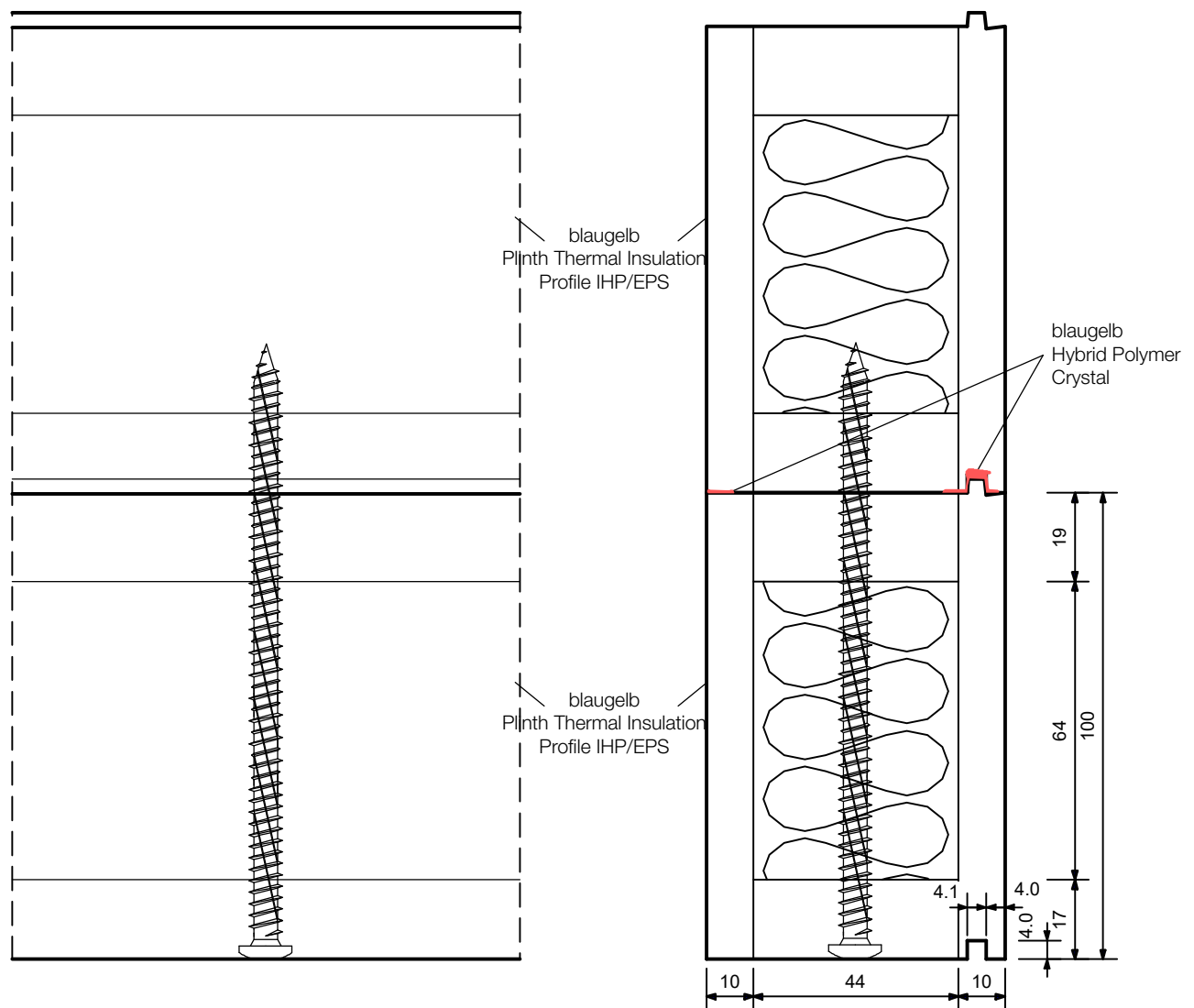
1.2.0.2. Double application with window frames and lifting/sliding doors



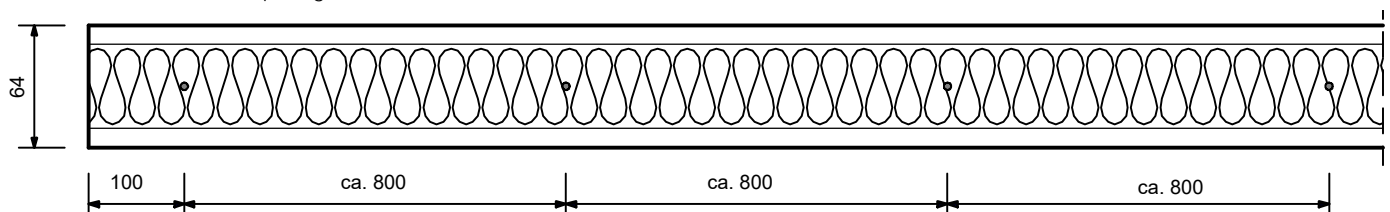
Schematic screw spacings



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

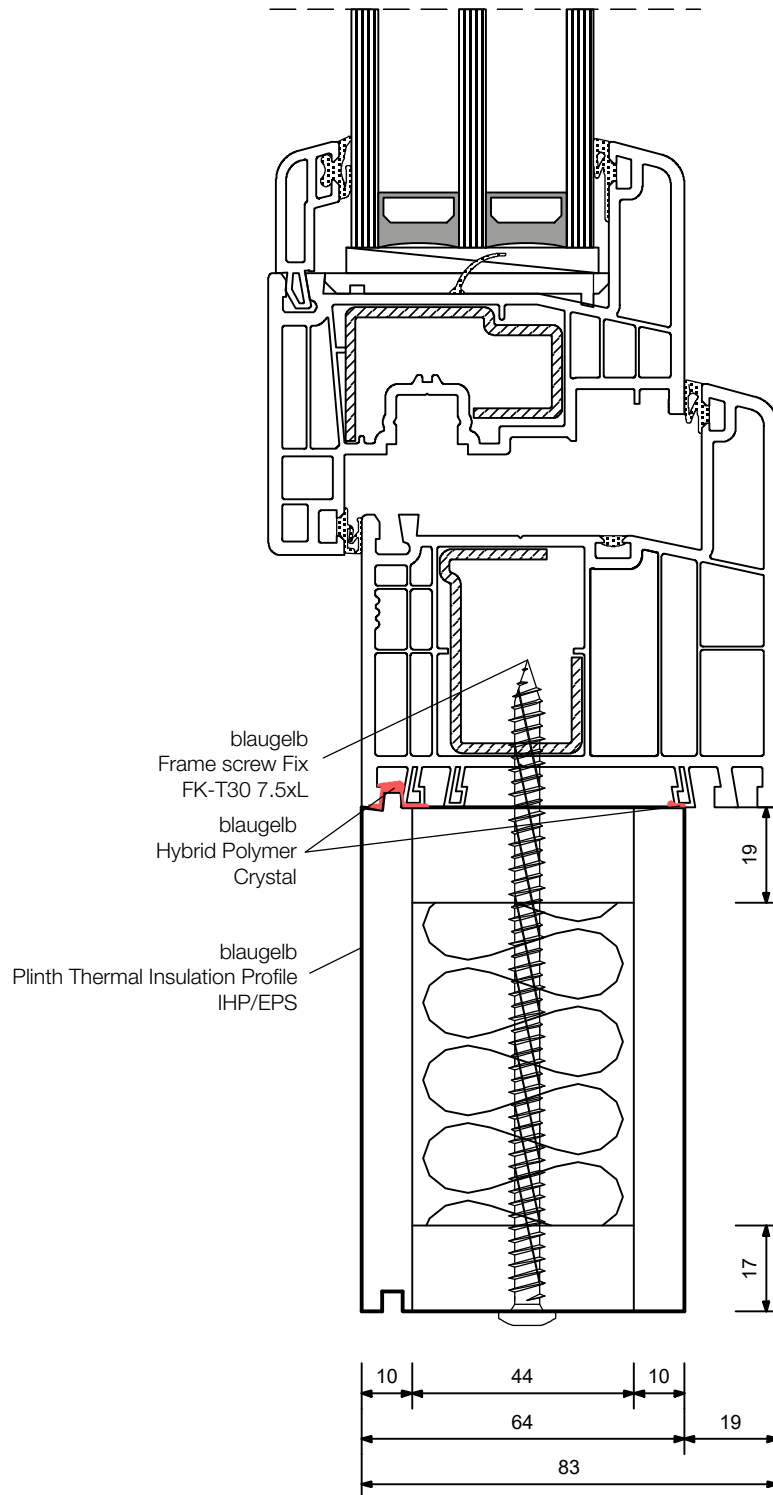
1.2.0.3. Double application with window frames and lifting/sliding doors, threshold

Schematic screw spacings

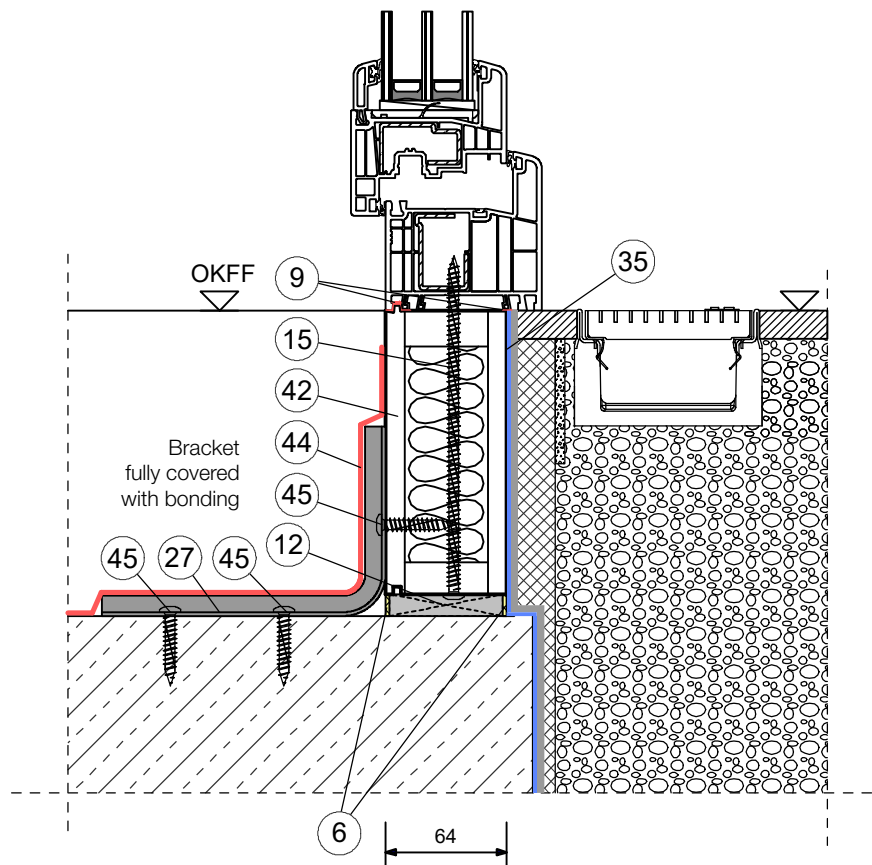


PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.1. Window frame installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

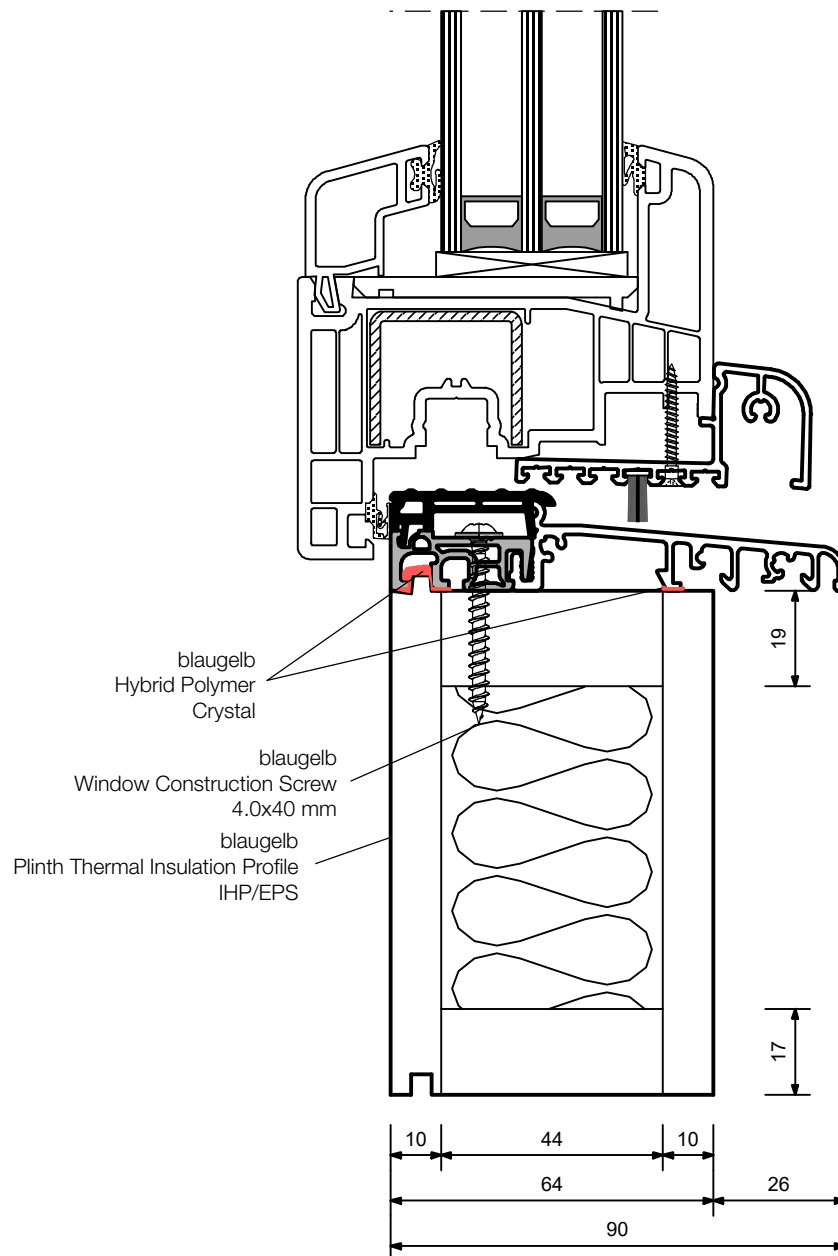
1.2.1. Window frame installation situation

- (6) | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- (9) | blaugelb Hybrid Polymer Crystal
- (12) | blaugelb Spacer Block
- (15) | blaugelb Frame screw Fix FK-T30 7.5xL
- (27) | blaugelb Assembly bracket 156.5x100 mm

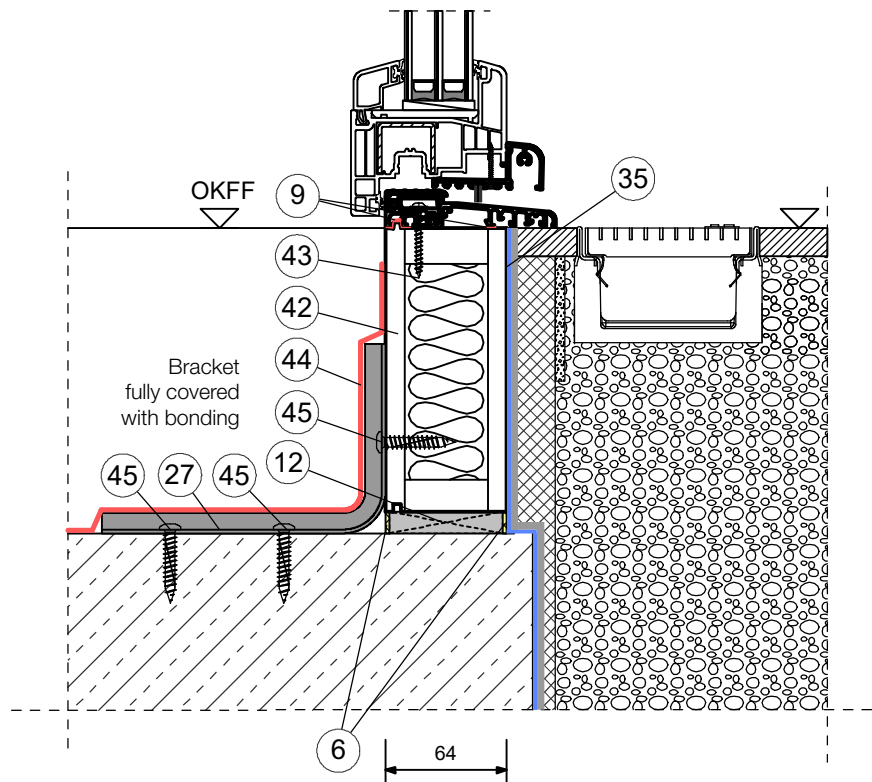
- (35) | Waterproofing according to DIN 18533
- (42) | blaugelb Plinth Thermal Insulation Profile IHP/EPS
- (44) | blaugelb Foil Duo^{SL}1050 Power One
- (45) | blaugelb Frame screw Fix FK-T30 7.5x42 mm

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.2. Threshold installation situation



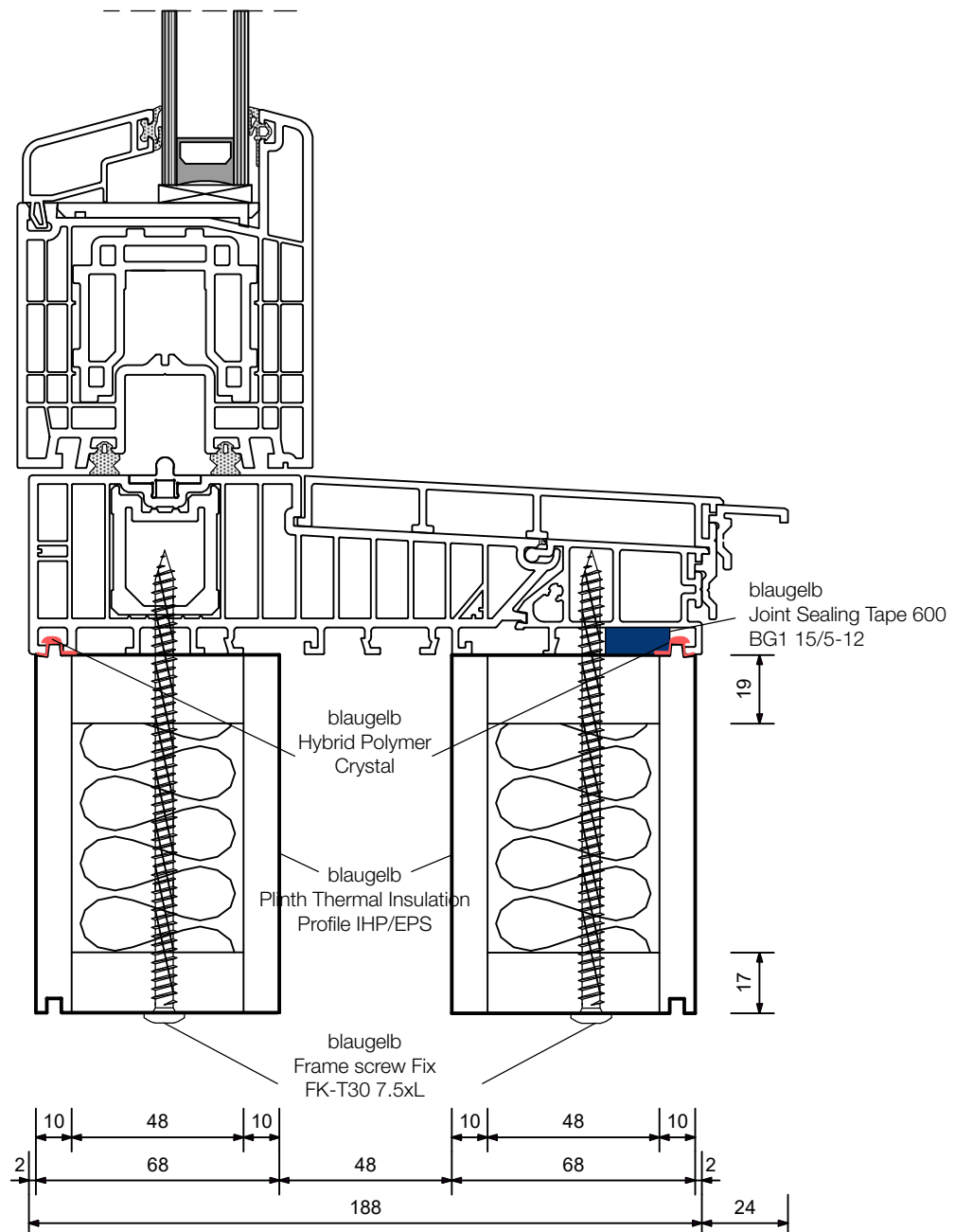
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.2. Threshold installation situation

- | | |
|--|---|
| <p>(6) blaugelb 1C Gun Foam Premium Allseason XXL Class E</p> <p>(9) blaugelb Hybrid Polymer Crystal</p> <p>(12) blaugelb Spacer Block</p> <p>(27) blaugelb Assembly bracket 156.5x100 mm</p> <p>(35) Waterproofing according to DIN 18533</p> | <p>(42) blaugelb Plinth Thermal Insulation Profile IHP/EPS</p> <p>(43) blaugelb Window Construction Screw 4.0x40 mm</p> <p>(44) blaugelb Foil Duo^{SL} 1050 Power One</p> <p>(45) blaugelb Frame screw Fix FK-T30 7.5x42 mm</p> |
|--|---|

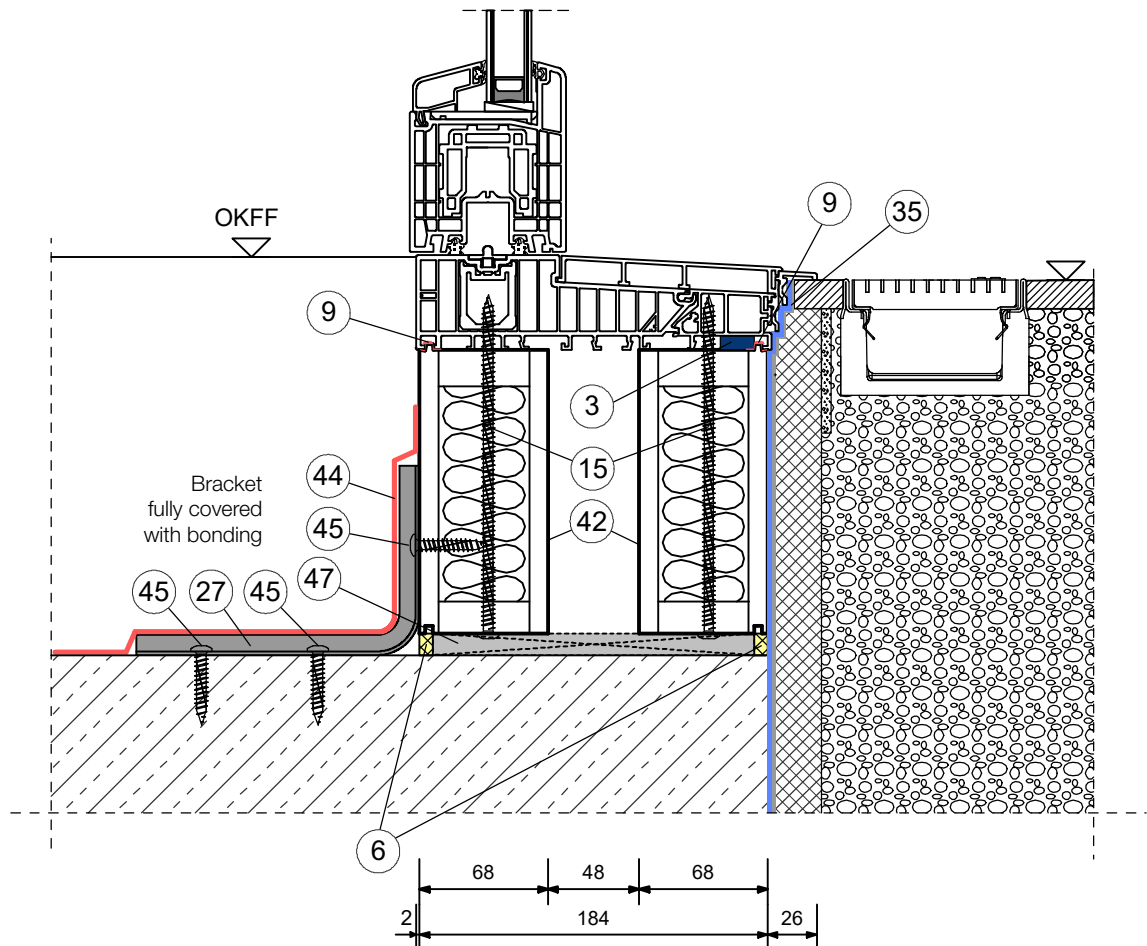
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.3. Lifting/sliding door installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

1.2.3. Lifting/sliding door installation situation



- | | | | |
|----|--|----|--|
| 3 | blaugelb Joint Sealing Tape 600 BG1 15/5-12 mm | 35 | Waterproofing according to DIN 18533 |
| 6 | blaugelb 1C Gun Foam Premium Allseason XXL Class E | 42 | blaugelb Plinth Thermal Insulation Profile IHP/EPS |
| 9 | blaugelb Hybrid Polymer Crystal | 44 | blaugelb Foil DuoSL ¹⁰⁵⁰ Power One |
| 15 | blaugelb Frame screw Fix FK-T30 7.5xL | 45 | blaugelb Frame screw Fix FK-T30 7.5x42 mm |
| 27 | blaugelb Assembly bracket 156.5x100 mm | 47 | blaugelb Shim Block HST 170 mm |

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.0.1. Product features

The blaugelb Plinth Thermal Insulation Profile EPS is made from a high-density EPS (expanded polystyrene) and offers the best possible heat and moisture protection on front doors and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile EPS is sturdy, durable and is exceptionally quick and easy to fit. The blaugelb Plinth Thermal Insulation Profile EPS provides thermal insulation and reduces the scope of conventional plastic profiles to form thermal bridges. It is dimensionally stable, 100 % free of HCFCs, HFCs and HBCDs. The blaugelb Plinth Thermal Insulation Profile EPS was specially developed for fitting as a substructure thermal insulation profile under thresholds.



By virtue of the innovative dovetail joint, the blaugelb Plinth Thermal Insulation Profile EPS can be positively interlocked, to create any desired length. The dovetail joint reduces the amount of waste, possibly even avoiding waste altogether, while the 1,175 mm length of the individual profiles is ideal for transport and storage (Europallet). Thanks to its low weight and compact dimensions, the blaugelb Plinth Thermal Insulation Profile EPS is unbeatably quick and straightforward to process.

With the tongue and groove joint, the two blaugelb Plinth Thermal Insulation Profiles EPS which are to be joined have a groove on one edge and a tongue on the other edge and can be coupled in height one under the other.

Product benefits:

Benefits of plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile EPS prevents damage caused by moisture and mould

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

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	Building material class B1 (difficult to ignite) Class E (DIN EN 13501-1)
Thermal conductivity nominal value λ_D : DIN EN 12667	$\lambda = 0.040 \text{ W/m}^2\text{K}$
Water vapour diffusion resistance: DIN EN ISO 12572	380 – 550 μ
Air permeability: EN 12207	Class 4
Bending strength: DIN EN 12089	$\geq 650 \text{ kPa}$
Compression stress (10 %) compression: DIN EN 13163:2015-04	$\geq 2,500 \text{ kPa}$
Compression stress (2 %) compression: DIN EN 13163:2015-04	$\geq 1,100 \text{ kPa}$
Shear strength: DIN EN ISO 14130	0.217 N/mm^2
Dimensional strength: DIN ISO 75-1	Short-term up to +95 °C Long-term up to +85 °C
Dimensional stability: DIN EN 13163:2015-04	Very high, including outdoor weathering
Water absorption after 28 days under water: DIN 12087	$\leq 1.5 \text{ vol. \%}$
Screw withdrawal values: blaugelb Frame screw Fix FK-T30 7.5x42 mm sfs window sill screw 4.5x35 mm	$F_{RK, AZ} 1,200 \text{ N}$ $F_{RK, AZ} 510 \text{ N}$
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

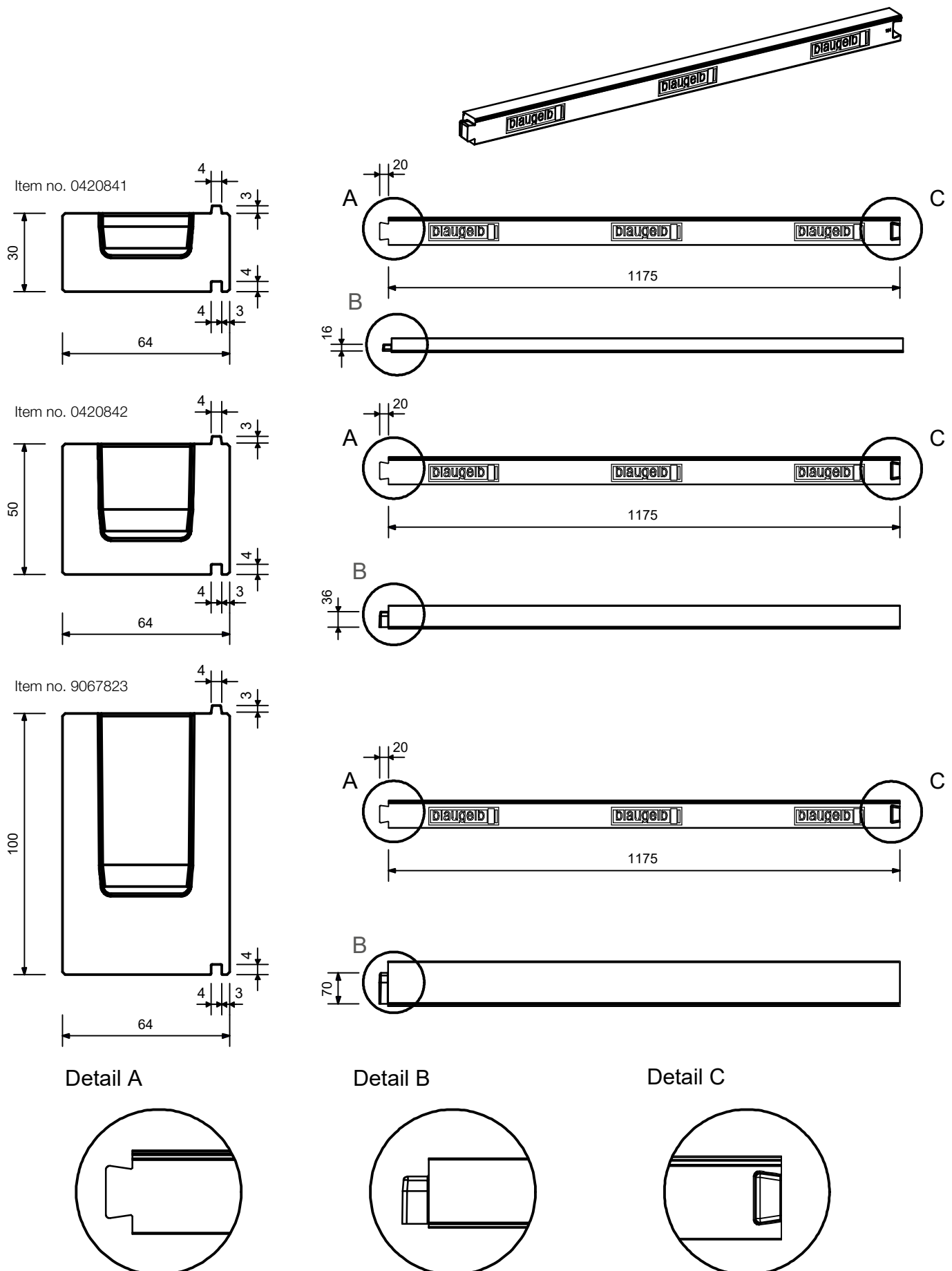
If carried out properly according to DIN 18195-4 and based on DIN 68800-2, fig. A.11-14, sealing offers sufficient protection against moisture, particularly for:

- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

In consultation with the parties responsible for structural waterproofing, ensure that solvent-free sealing sheets which do not promote burning are used. The blaugelb Plinth Thermal Insulation Profile EPS is sealed against the frame of the structural element with a pasty polymer sealant blaugelb Hybrid Polymer Power Fix and secured mechanically with self-tapping screws.

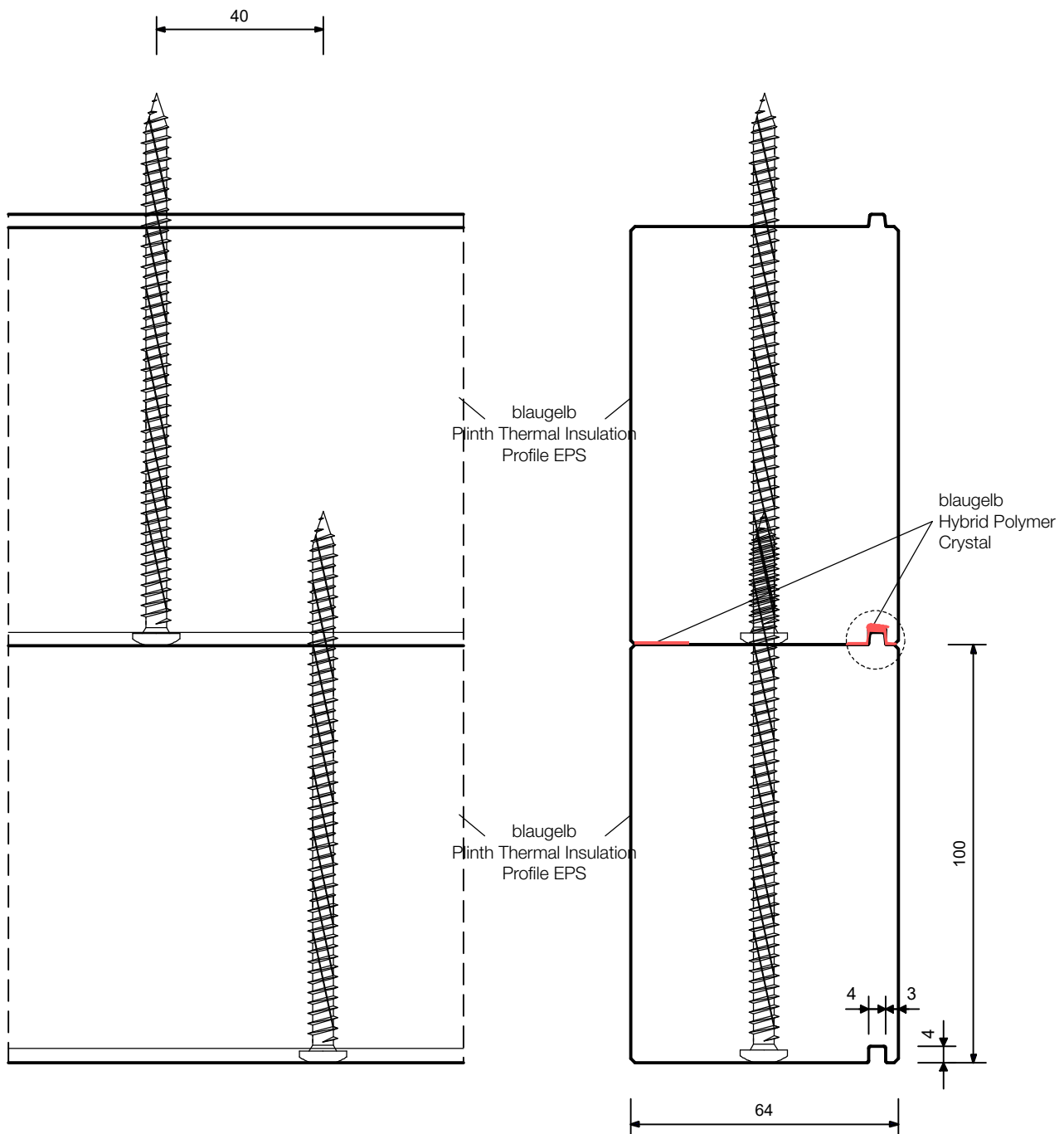
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile EPS

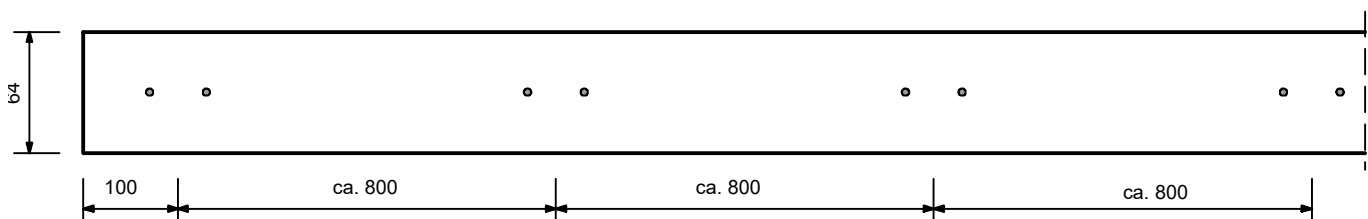


PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

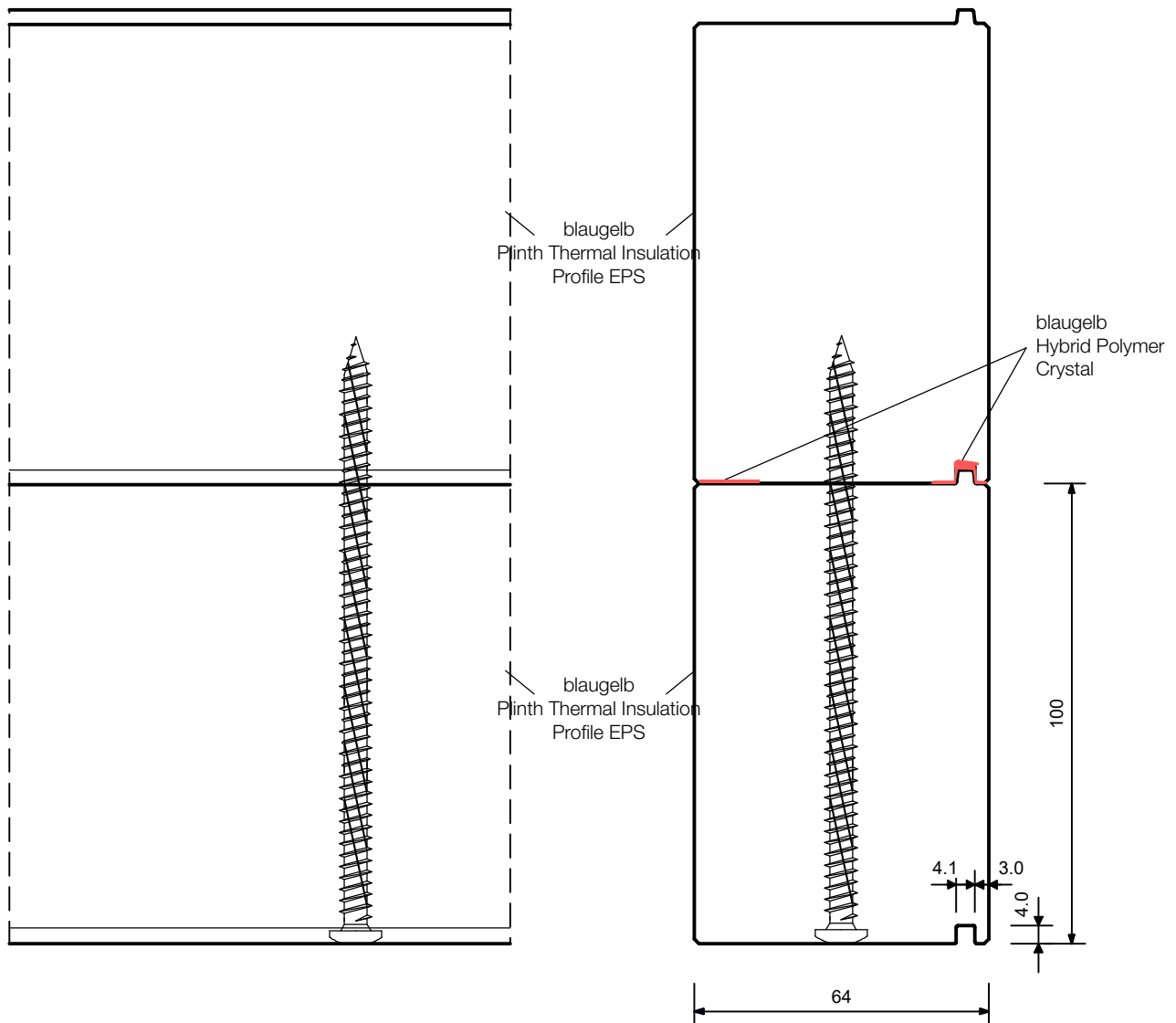
1.3.0.3. Double application with window frames and lifting/sliding doors



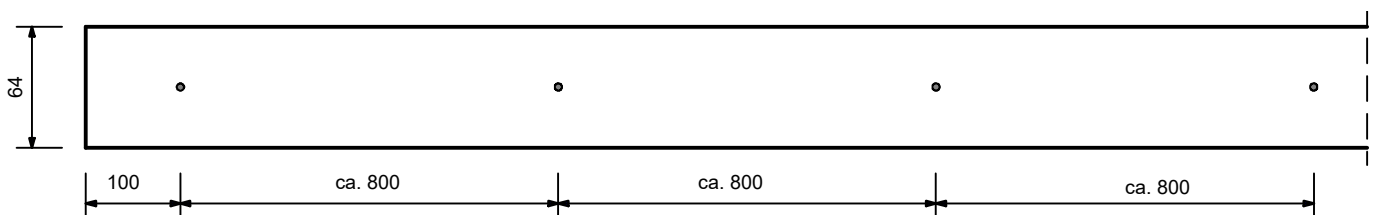
Schematic screw spacings



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

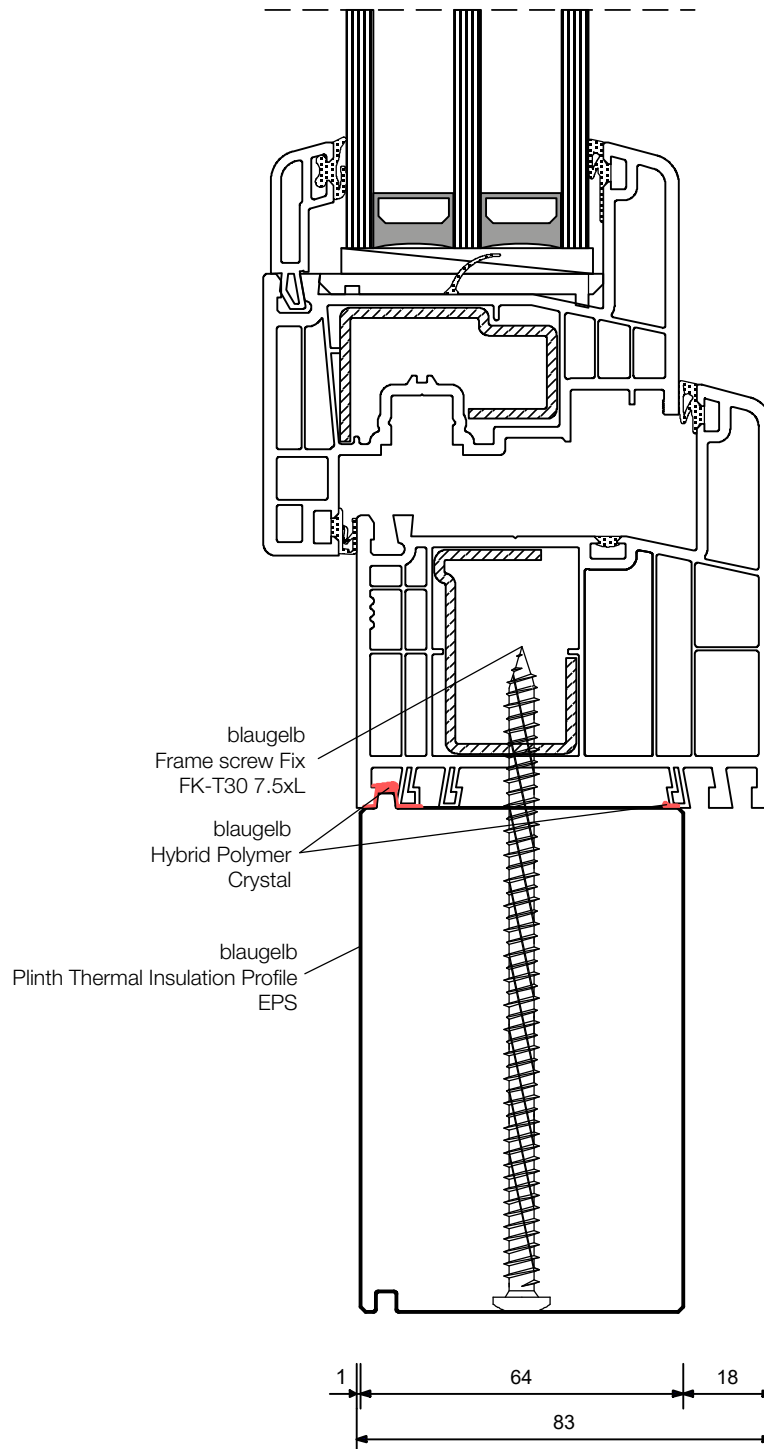
1.3.0.3. Double application with threshold

Schematic screw spacings

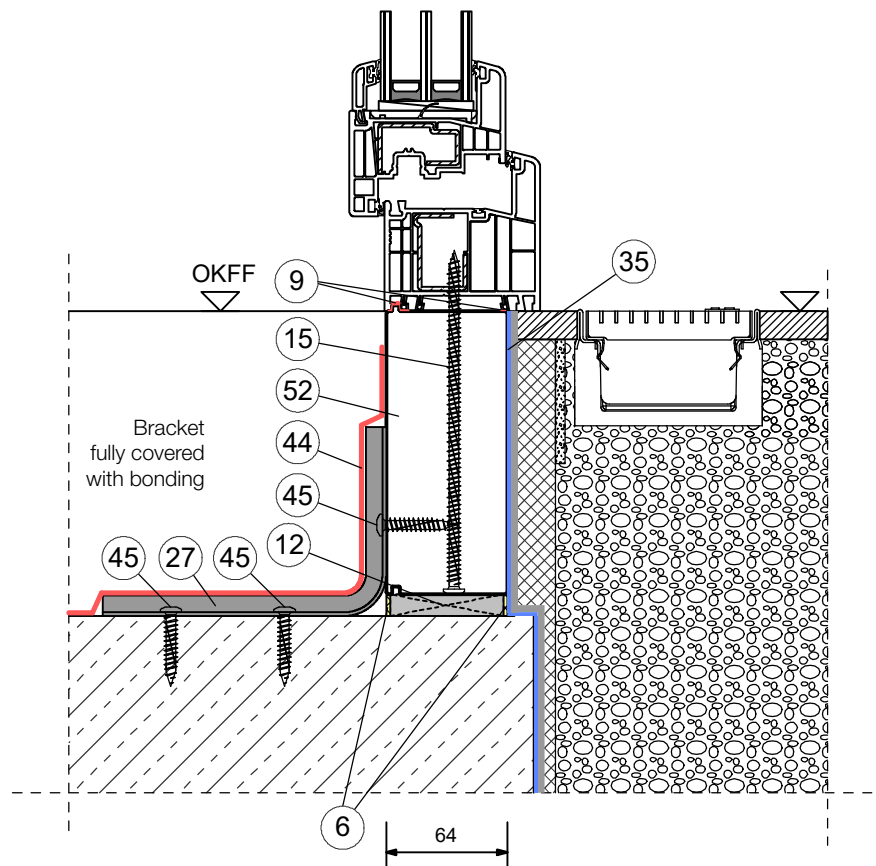


PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.1. Window frame installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

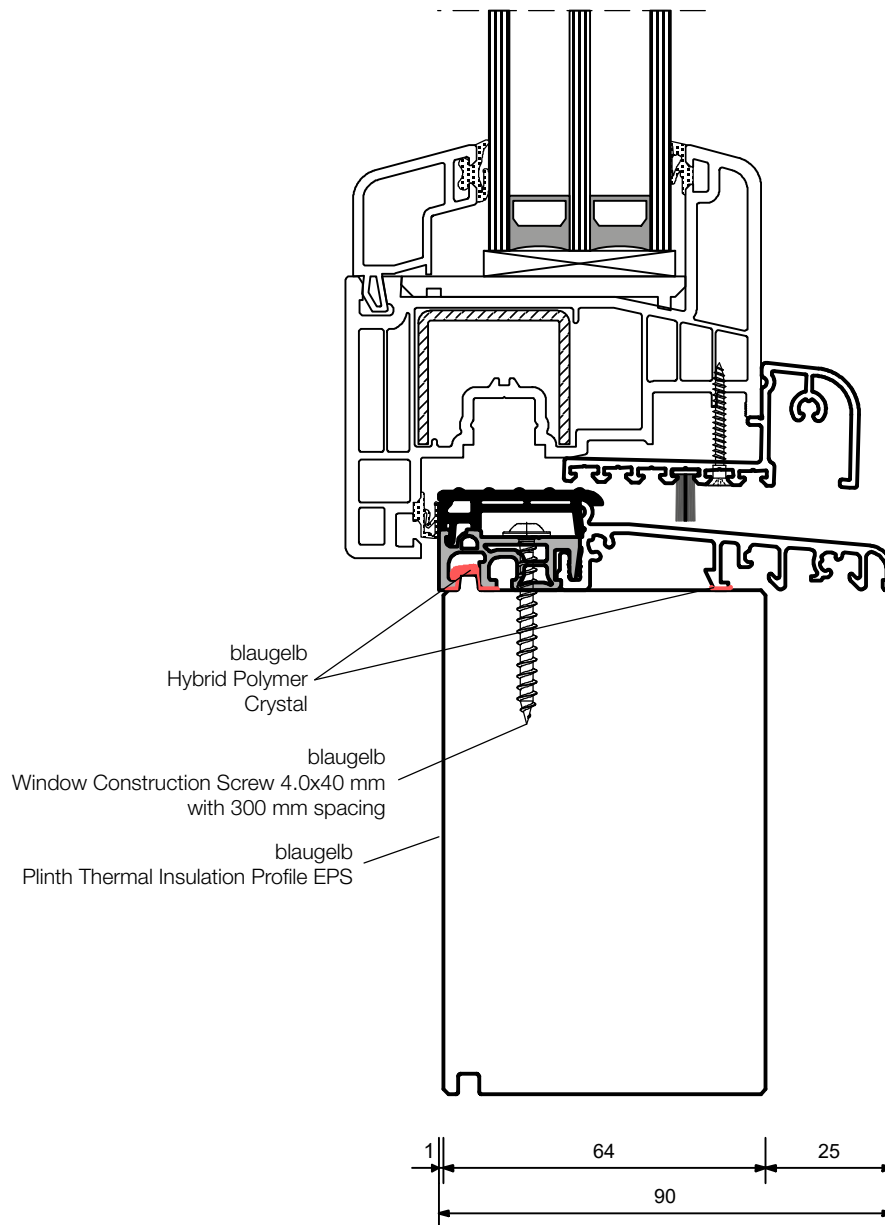
1.3.1. Window frame installation situation

- (6)** | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- (9)** | blaugelb Hybrid Polymer Crystal
- (12)** | blaugelb Spacer Block
- (15)** | blaugelb Frame screw Fix FK-T30 7.5xL
- (27)** | blaugelb Assembly bracket 156.5x100 mm

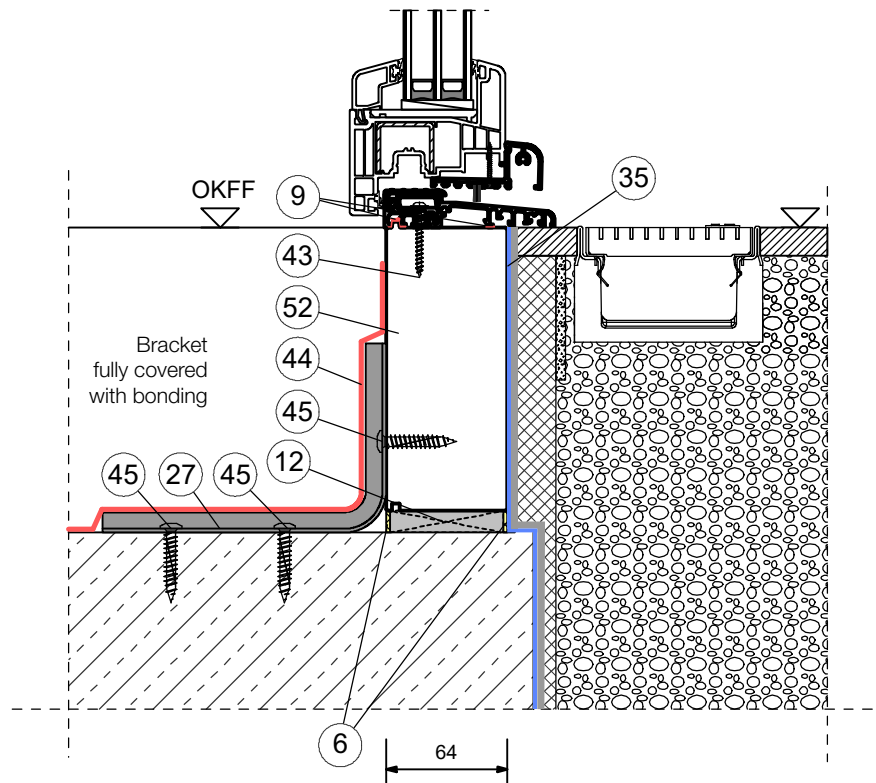
- (35)** | Waterproofing according to DIN 18533
- (44)** | blaugelb Foil Duo**SL**¹⁰⁵⁰ Power One
- (45)** | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- (52)** | blaugelb Plinth Thermal Insulation Profile EPS

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.2. Threshold installation situation



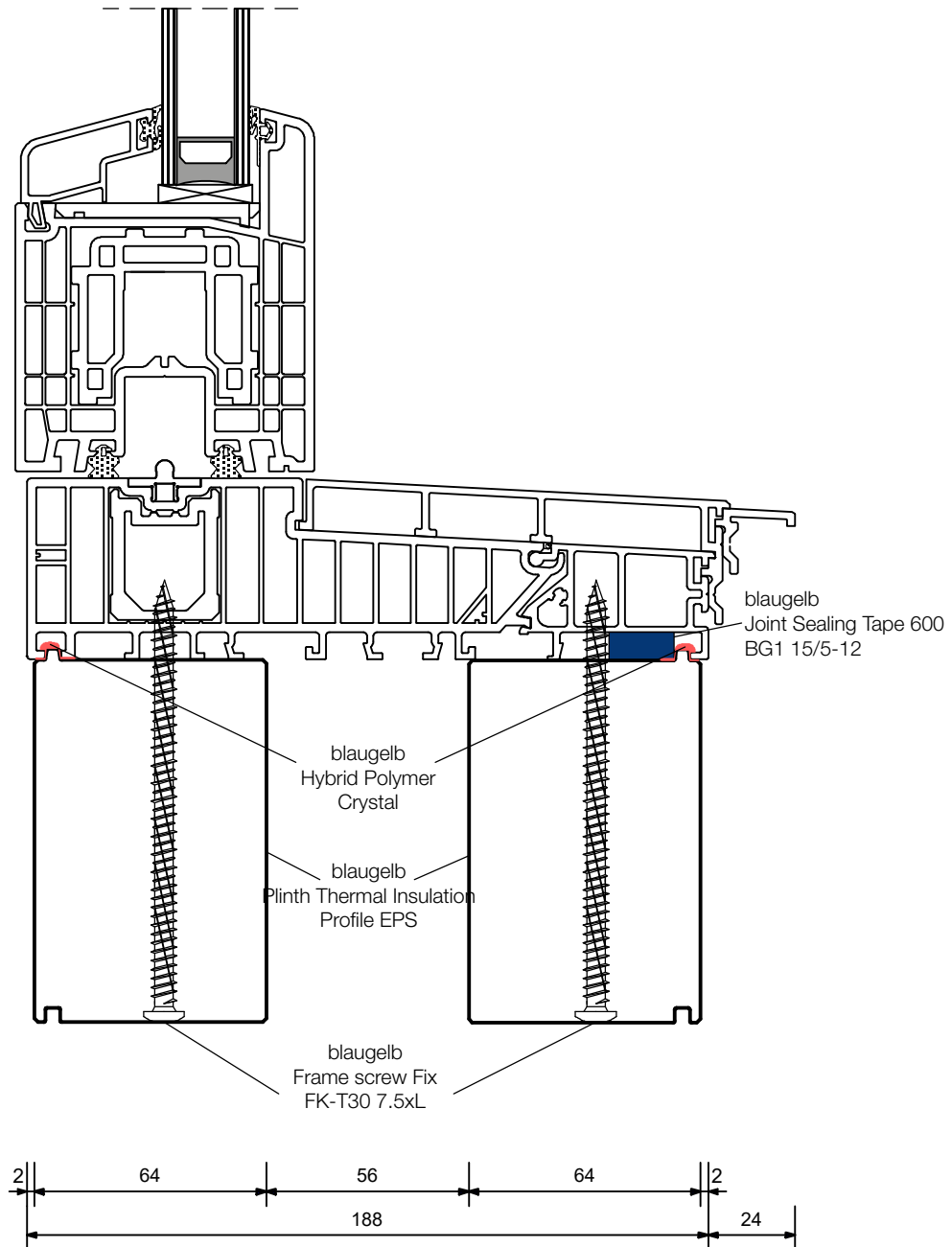
PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.2. Threshold installation situation

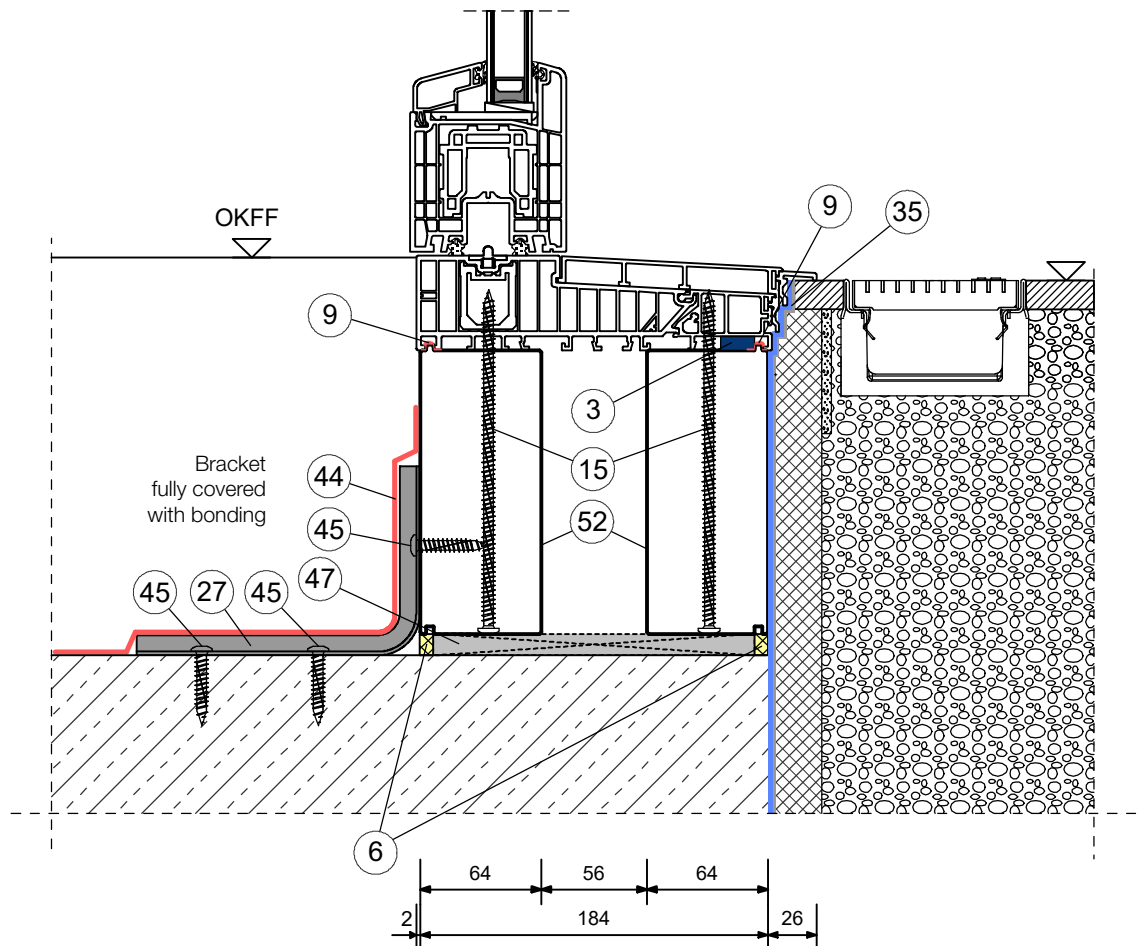
- | | |
|---|---|
| <p>⑥ blaugelb 1C Gun Foam Premium Allseason XXL Class E</p> <p>⑨ blaugelb Hybrid Polymer Crystal</p> <p>⑫ blaugelb Spacer Block</p> <p>⑳ blaugelb Assembly bracket 156.5x100 mm</p> <p>㉓ Waterproofing according to DIN 18533</p> | <p>㉔ blaugelb Window Construction Screw 4.0x40 mm</p> <p>㉕ blaugelb Foil DuoSL¹⁰⁵⁰ Power One</p> <p>㉖ blaugelb Frame screw Fix FK-T30 7.5x42 mm</p> <p>㉗ blaugelb Plinth Thermal Insulation Profile EPS</p> |
|---|---|

PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.3. Lifting/sliding door installation situation



PVC PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

1.3.3. Lifting/sliding door installation situation

- ③ | blaugelb Joint Sealing Tape 600 BG1 15/5-12 mm
- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Assembly bracket 156.5x100 mm

- ③⑤ | Waterproofing according to DIN 18533
- ④④ | blaugelb Foil Duo^{SL1050} Power One
- ④⑤ | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- ④⑦ | blaugelb Shim Blocks HST 170 mm
- ⑤② | blaugelb Plinth Thermal Insulation Profile EPS

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

2.1.0.1 Product features

The blaugelb Plinth Thermal Insulation Profile PVC/EPS (expanded rigid polystyrene foam) offers the best possible heat and moisture protection on front and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile PVC/EPS consists of an EPS rigid foam core and two layers of poplar plywood coated on the outside with a PVC plastic. The poplar plywood has IW67 bonding quality and is bonded with an adhesive of D3 quality (EN 204-D3).



The blaugelb Plinth Thermal Insulation Profile PVC/EPS must be fitted in such a way that the fitting conditions for its useful life conform to use classes 0 or 1 according to DIN 68800-1:2011 or service class 1 according to DIN EN 1995-1-1:2010.

Product benefits:

Benefits of plinth thermal insulation using the Plinth Thermal Insulation Profile PVC/EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile PVC/EPS prevents damage caused by moisture and mould

Benefits of a groove/spacer block connection:

- Quick and easy assembly as a drilling template is not required
- Only one screw required for each fastening point
- Elements slide more easily across the substrate on screw heads

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

Surface and cover plate:	1 mm PVC VEKA on both sides and 12 or 24 mm plywood panel, IW67
Thermal insulation:	EPS perimeter 30 kg/m³, intensive expanded rigid polystyrene foam
Gluing:	IW67 waterproof D3 (EN204-D3)
blaugelb Plinth Thermal Insulation Profile 60 mm thickness:	1 mm 24 mm 22 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 64 mm thickness:	1 mm 24 mm 26 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 68 mm thickness:	1 mm 24 mm 30 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 74 mm thickness:	1 mm 24 mm 36 mm 12 mm 1 mm
Thermal conductivity U value at 60 mm:	0.888 W/m²K
Thermal conductivity U value at 64 mm:	0.802 W/m²K
Thermal conductivity U value at 68 mm:	0.731 W/m²K
Thermal conductivity U value at 74 mm:	0.645 W/m²K
Screw withdrawal value SPT 4.3x40 at a vertical engagement depth of 28 mm:	2,150 N
Screw withdrawal value FBFK 7.5x62 at a horizontal engagement depth of 40 mm:	3,526 N
Pressure resistance:	5,000 kg/m

If carried out properly according to DIN 18195-4 and based on DIN 68800-2 fig. A.11-14, sealing offers sufficient protection against moisture, **particularly for:**

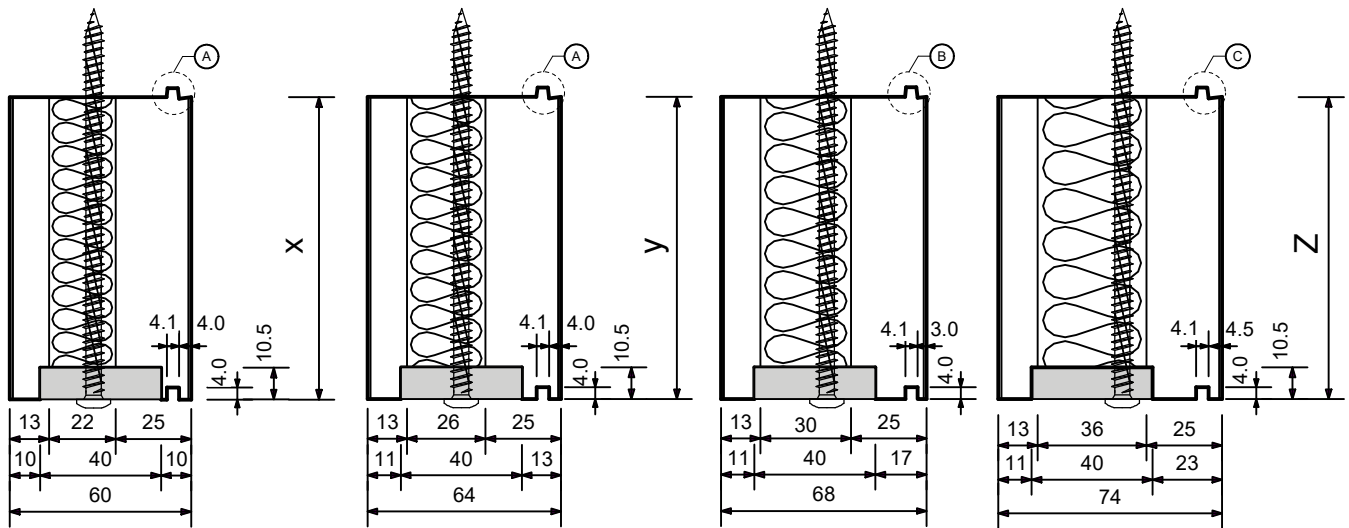
- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

If carried out properly, sealing on the inside and outside between the blaugelb Plinth Thermal Insulation Profile PVC/EPS at the top and the elements at the bottom ensures lasting impermeability provided that sealing is performed in accordance with DIN 18195-4.

Cross-section of a blaugelb Plinth Thermal Insulation Profile PVC/EPS:

PVC	Pappel-Spertholz	EPS-Hartschaumkern	Pappel-Spertholz	PVC
1 mm	24 mm	22 mm bzw. 26 mm bzw. 30 mm bzw. 36 mm	12 mm	1 mm

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

2.1.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile PVC/EPS

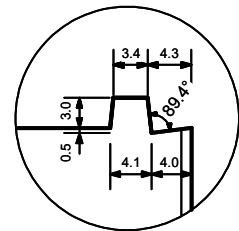
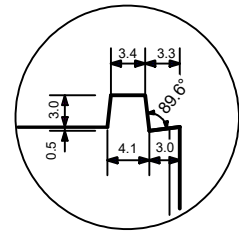
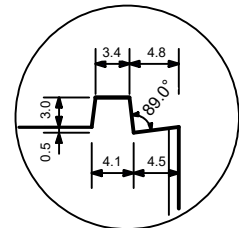
x: 50/100/130/150/180

y: 50/100/130/150/165/180

z: 100/130/150/180

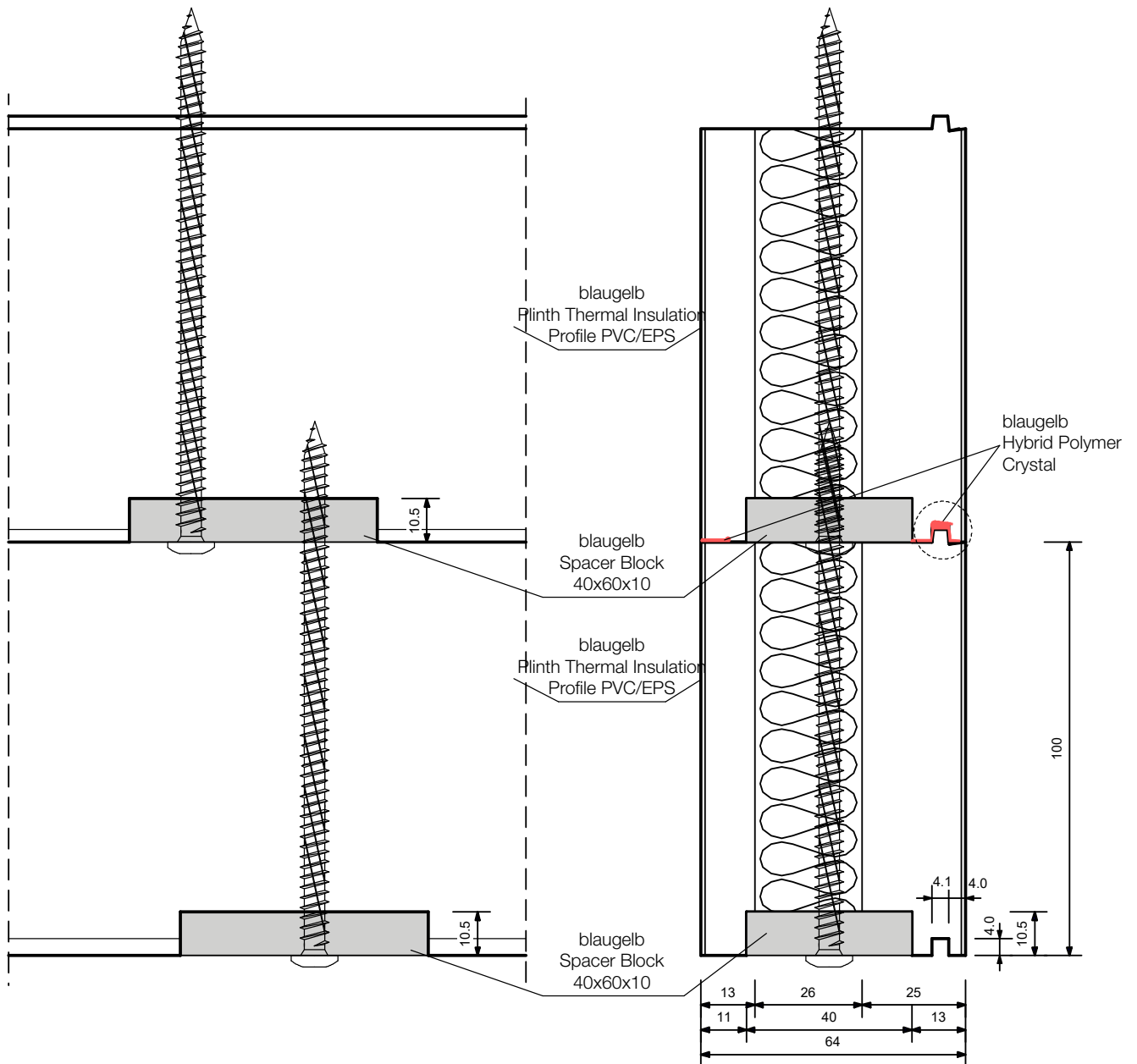
The blaugelb Frame screw Fix FK-T30 is intended to protrude because of the blaugelb Spacer Block used. If this is not desired for construction reasons, a Spacer Block with a smaller height (5 mm) must be used.

Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x50x60 mm	1 piece	9070180
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x60 mm	1 piece	9070181
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x60 mm	1 piece	9070182
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x60 mm	1 piece	9070183
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x60 mm	1 piece	9070184
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x50x64 mm	1 piece	9052718
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x64 mm	1 piece	0413898
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x64 mm	1 piece	0413899
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x64 mm	1 piece	0413900
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x165x64 mm	1 piece	9068730
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x64 mm	1 piece	0413901
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x68 mm	1 piece	0413902
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x68 mm	1 piece	0413903
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x68 mm	1 piece	0413904
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x68 mm	1 piece	0413905
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x74 mm	1 piece	0433175
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x74 mm	1 piece	0433176
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x74 mm	1 piece	0433177
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x74 mm	1 piece	0433178
Twist drill DIN 1869 HSS-G extra long D = 6 mm, L = 330 mm	1 piece	0417239
Bit 867/4 TX30 70 mm	1 piece	6601006844

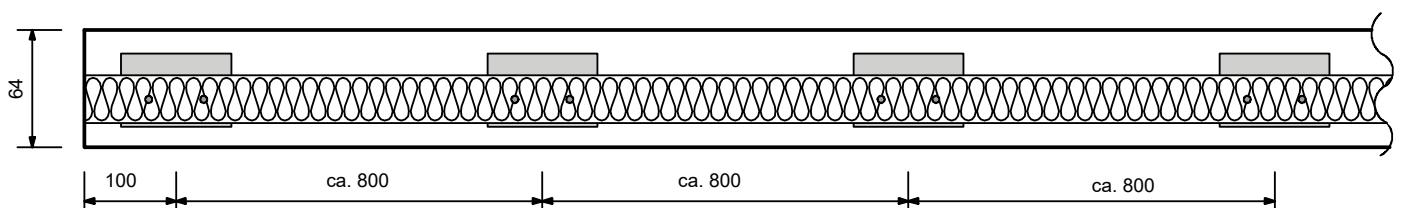
Detail A**Detail B****Detail C**

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

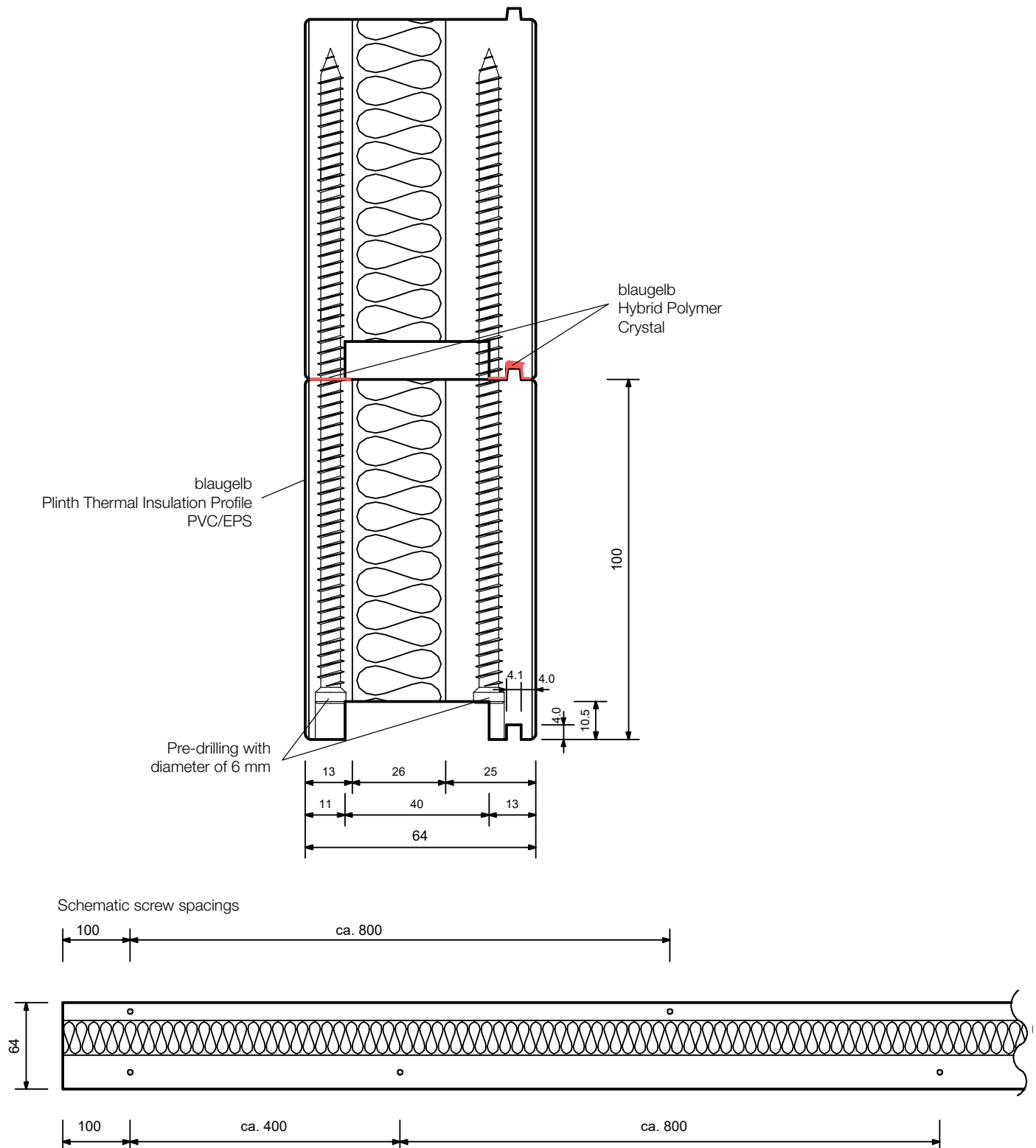
2.1.0.3. Double application with window frames and lifting/sliding doors



Schematic screw spacings

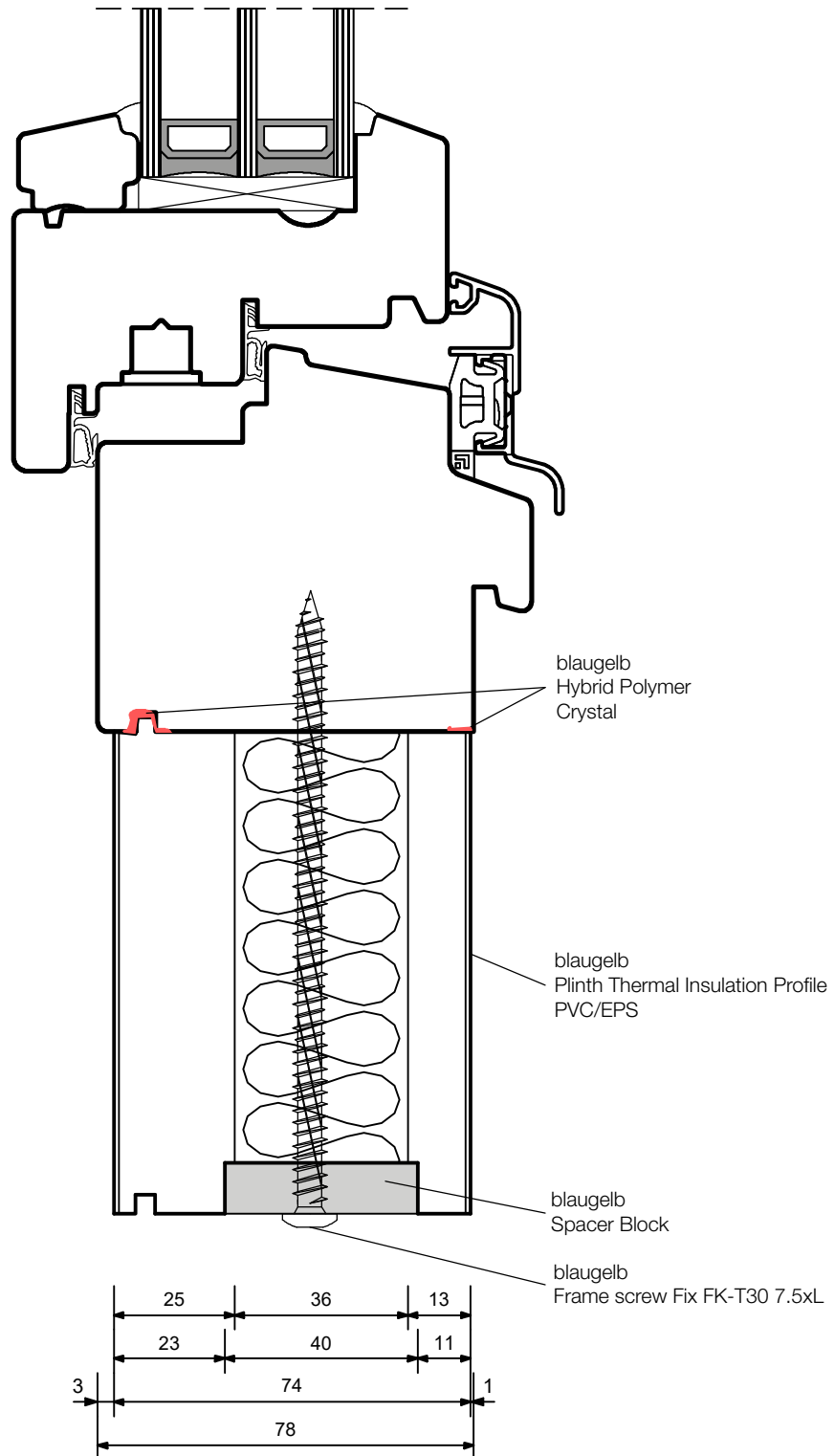


WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

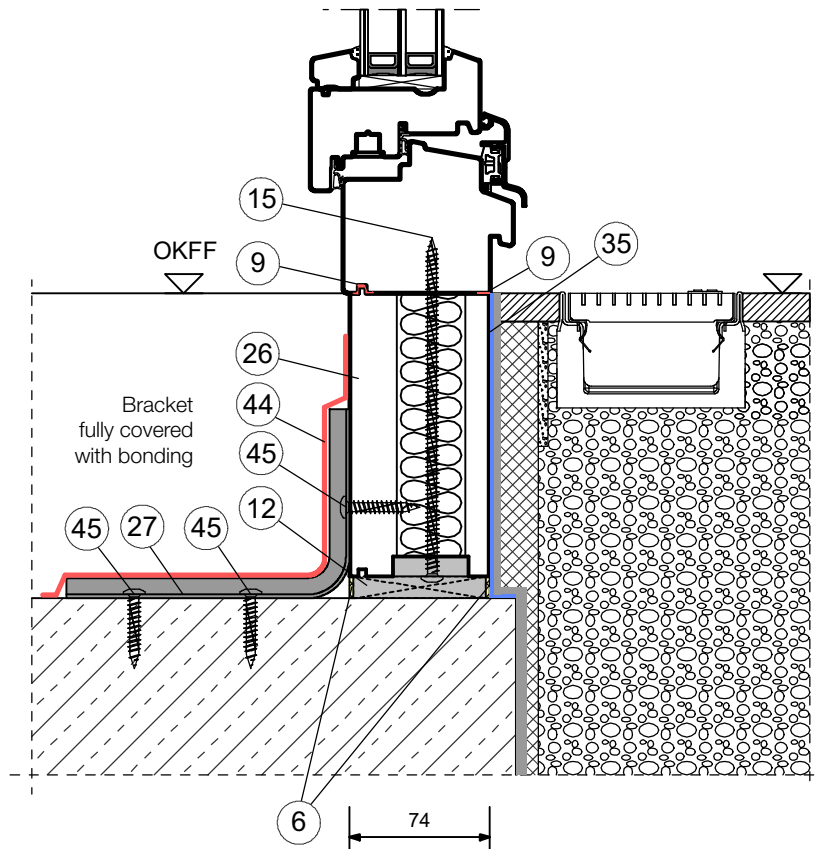
2.1.0.4. Double application with threshold

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

2.1.1. Window frame installation situation



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

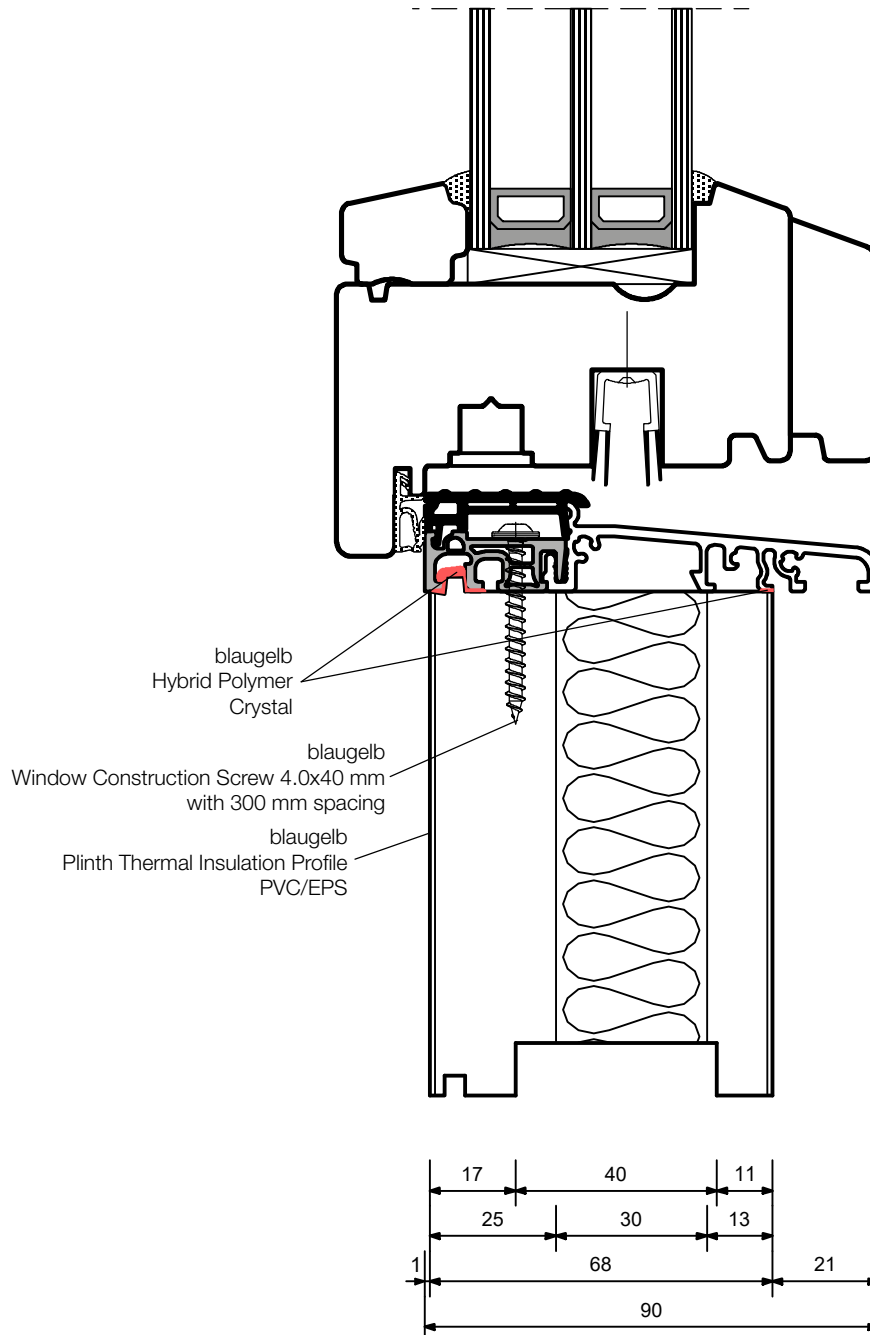
2.1.1. Window frame installation situation

- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Plinth Thermal Insulation Profile PVC/EPS

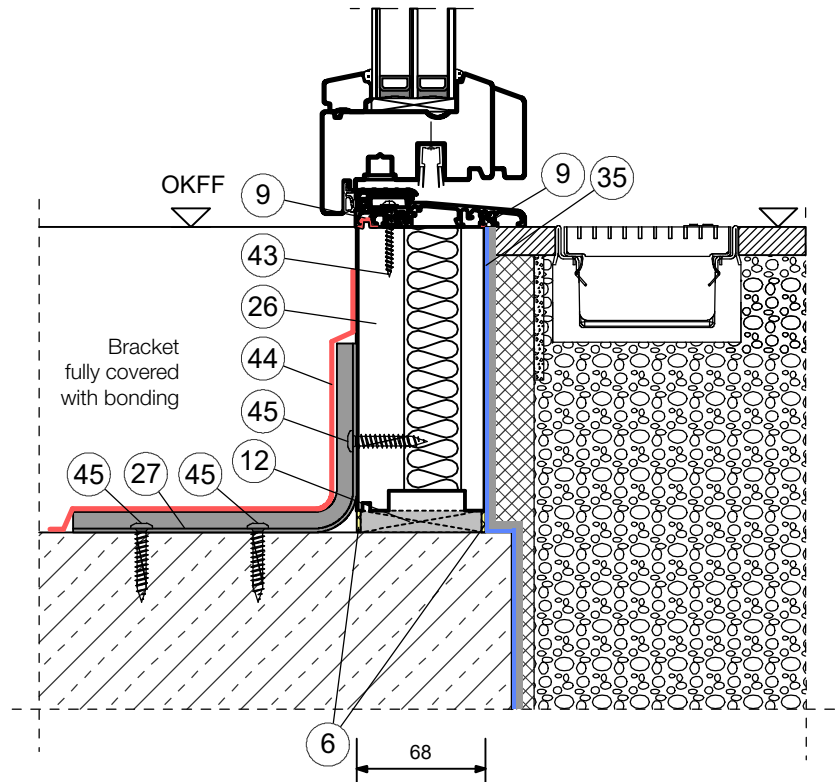
- ㉓ | blaugelb Assembly bracket 156.5x100 mm
- ㉕ | Waterproofing according to DIN 18533
- ㉗ | blaugelb Foil Duo^{SL} 1050 Power One
- ㉙ | blaugelb Frame screw Fix FK-T30 7.5x42 mm

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

2.1.2. Threshold installation situation



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

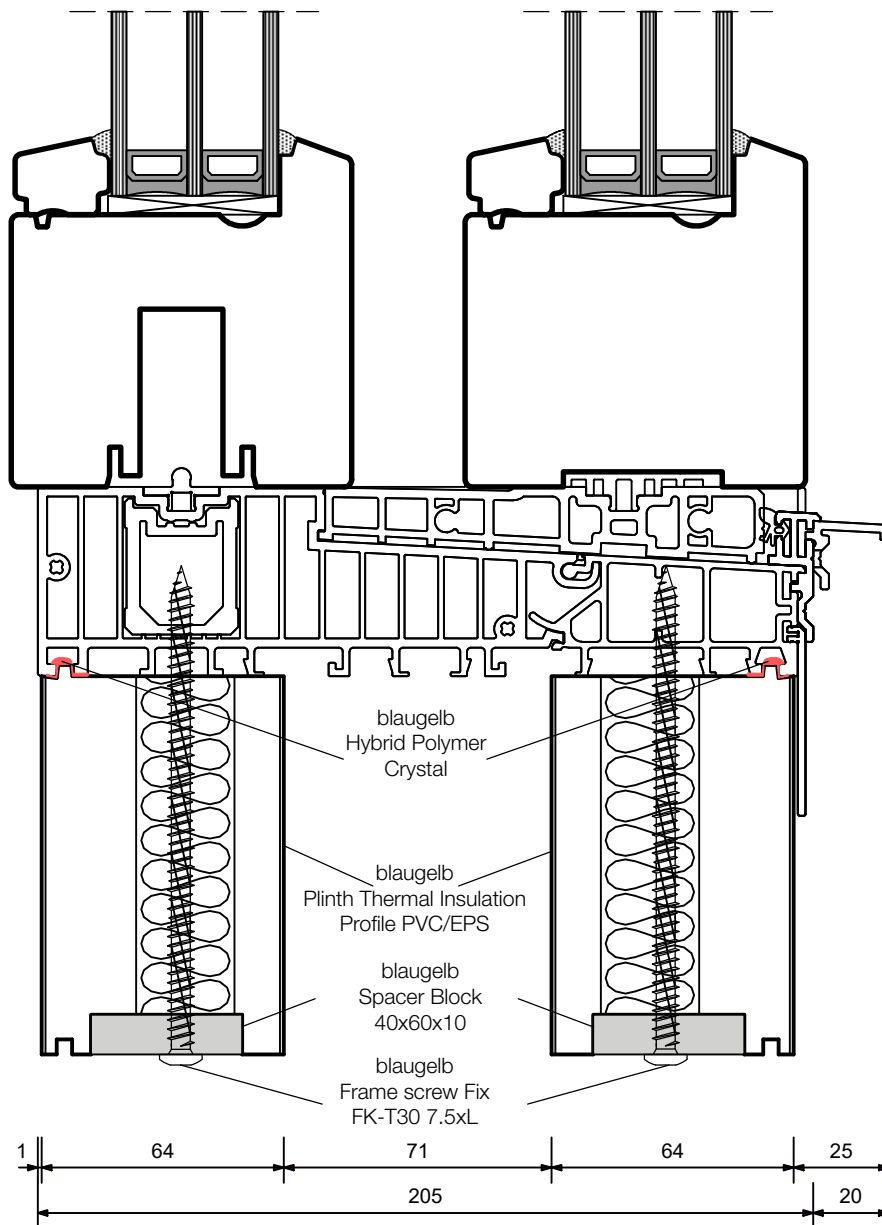
2.1.2. Threshold installation situation

- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑫ | blaugelb Plinth Thermal Insulation Profile PVC/EPS
- ⑫ | blaugelb Assembly bracket 156.5x100 mm

- ③⑤ | Waterproofing according to DIN 18533
- ④③ | blaugelb Window Construction Screw 4.0x40 mm
- ④④ | blaugelb Foil Duo^{SL}1050 Power One
- ④⑤ | blaugelb Frame screw Fix FK-T30 7.5x42 mm

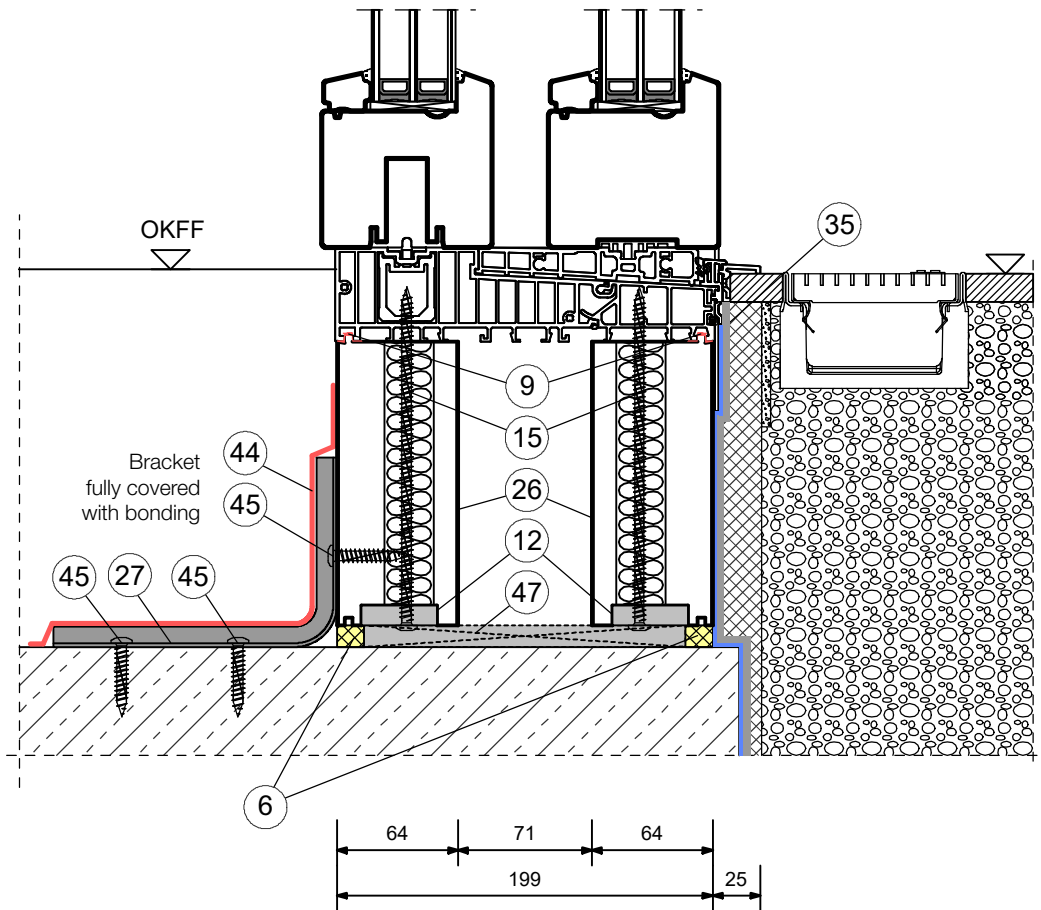
WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

2.1.3. Lifting/sliding door installation situation



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

2.1.3. Lifting/sliding door installation situation



- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Plinth Thermal Insulation Profile PVC/EPS

- ㉓ | blaugelb Assembly bracket 156.5x100 mm
- ㉕ | Waterproofing according to DIN 18533
- ㉗ | blaugelb Foil Duo^{SL} 1050 Power One
- ㉙ | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- ㉛ | blaugelb Shim Block HST 170 mm

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.0.1. Product features

The blaugelb Plinth Thermal Insulation Profile IHP/EPS (integral rigid foam board/expanded rigid polystyrene foam) offers the best possible heat and moisture protection on house and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile IHP/EPS is comprised of an EPS rigid foam core and two layers of integral rigid foam board. The integral rigid foam board has IW67 bonding quality and is bonded with an adhesive of D3 quality (EN 204-D3).



Product benefits:

Benefits of plinth thermal insulation using the Plinth Thermal Insulation Profile IHP/EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile IHP/EPS prevents damage caused by moisture and mould

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

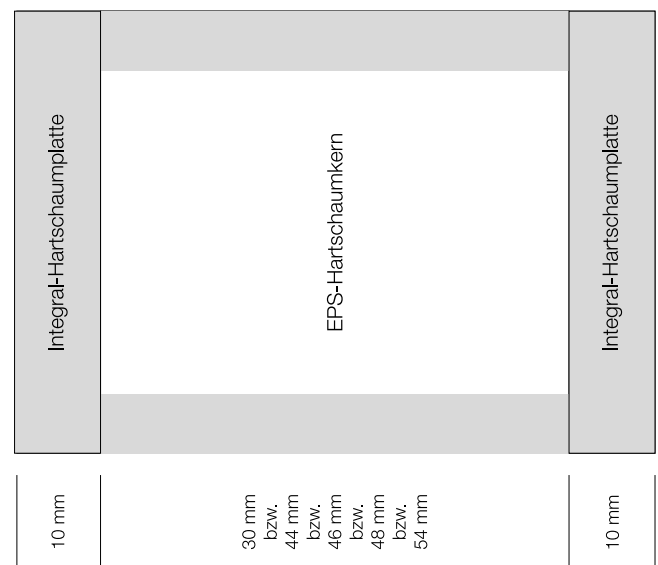
Surface and cover plate:	on both sides 10 mm IHP white
Thermal insulation:	EPS perimeter 30 kg/m³, intensive expanded rigid polystyrene foam
Gluings:	IW67 waterproof D3 (EN204-D3)
blaugelb Plinth Thermal Insulation Profile 50 mm thickness:	10 mm 30 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 64 mm thickness:	10 mm 44 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 66 mm thickness:	10 mm 46 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 68 mm thickness:	10 mm 48 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 74 mm thickness:	10 mm 54 mm 10 mm
Thermal conductivity U value at 50 mm:	0.733 W/m²K
Thermal conductivity U value at 64 mm:	0.559 W/m²K
Thermal conductivity U value at 66 mm:	0.548 W/m²K
Thermal conductivity U value at 68 mm:	0.523 W/m²K
Thermal conductivity U value at 74 mm:	0.478 W/m²K
Screw withdrawal value: SPT 4.3x40 at a vertical engagement depth of 17 mm	1,750 N
Screw withdrawal value: Frame Screw Fix FK-T30 2x 7.5x42	3,240 N
Pressure resistance:	4,600 kg/m

If carried out properly according to DIN 18531 and based on DIN 68800-2 fig. A.11-14, sealing offers sufficient protection against moisture, **particularly** for:

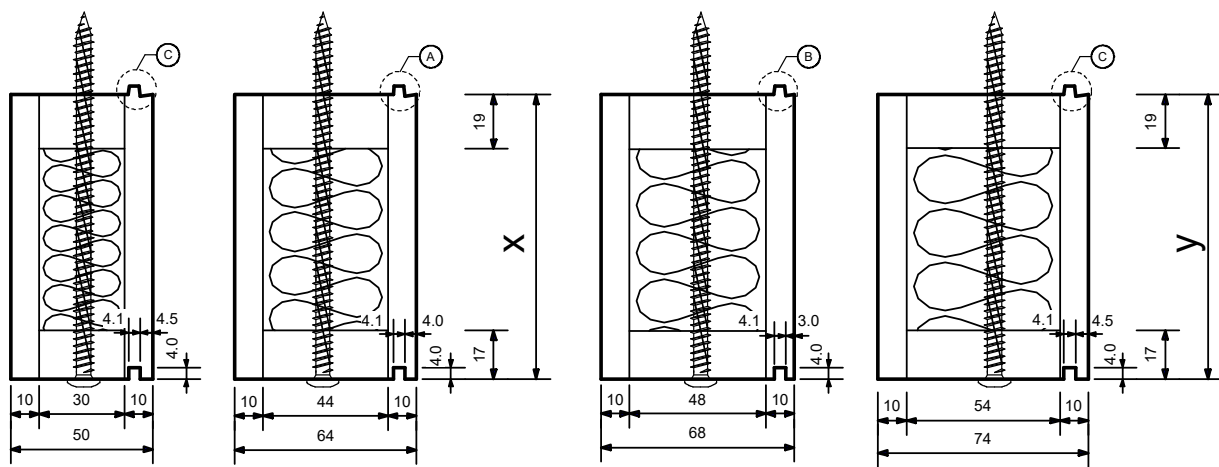
- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

If carried out properly, sealing on the inside and outside between the blaugelb Plinth Thermal Insulation Profile IHP/EPS at the top and the elements at the bottom ensures lasting impermeability provided that sealing is performed in accordance with DIN 18531.

Cross-section of a blaugelb Plinth Thermal Insulation Profile IHP/EPS:

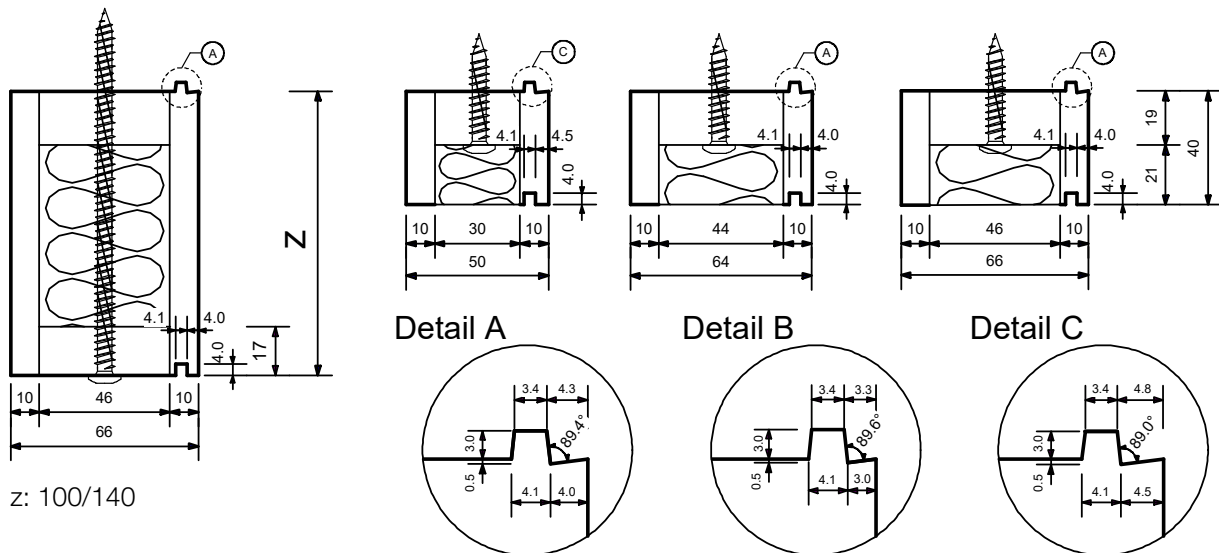


WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile IHP/EPS

x: 100/130/140/150/180

y: 100/130/150/180



z: 100/140

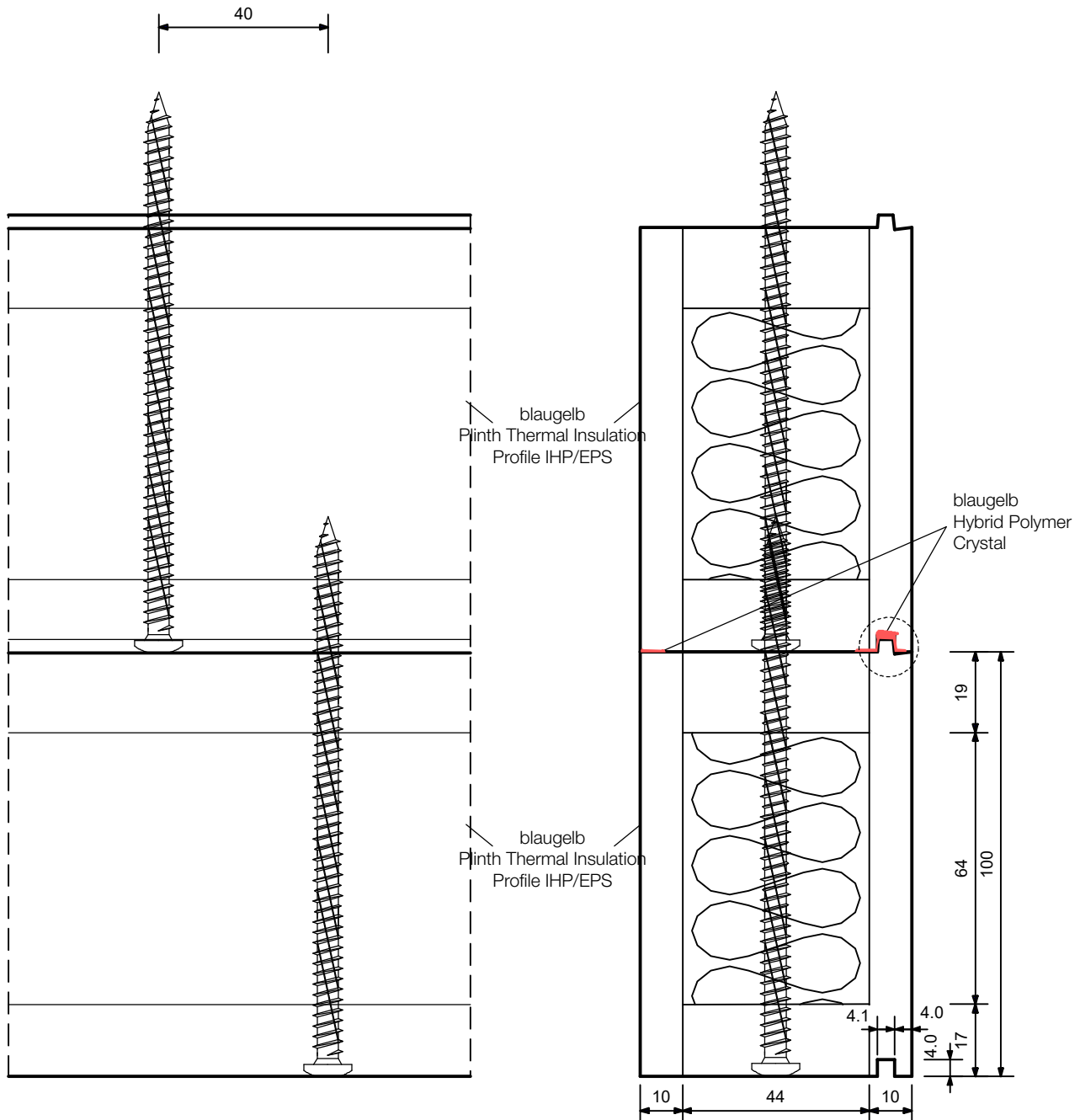
The blaugelb Frame screw Fix FK-T30 is intentionally flush with the head on the profile. If this is not desired for construction reasons, the screw can also be completely countersunk.

Product name	PU	Item no.	Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x50 mm*	1 piece	9066449	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x66 mm	1 piece	9072829
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x50 mm	1 piece	9066450	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x66 mm	1 piece	9072830
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x50 mm	1 piece	9066451	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x68 mm	1 piece	9052723
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x50 mm	1 piece	9066452	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x68 mm	1 piece	9052764
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x50 mm	1 piece	9066453	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x68 mm	1 piece	9052765
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x50 mm	1 piece	9066554	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x68 mm	1 piece	9052766
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x64 mm*	1 piece	9066447	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x74 mm	1 piece	9052767
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x64 mm	1 piece	9052719	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x74 mm	1 piece	9052768
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x64 mm	1 piece	9052720	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x74 mm	1 piece	9052769
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x64 mm	1 piece	9066448	blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x74 mm	1 piece	9052770
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x64 mm	1 piece	9052721			
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x64 mm	1 piece	9052722			
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x66 mm	1 piece	9072828			
			Twist drill DIN 1869 HSS-G extra long D = 6 mm, L = 330 mm	1 piece	0417239

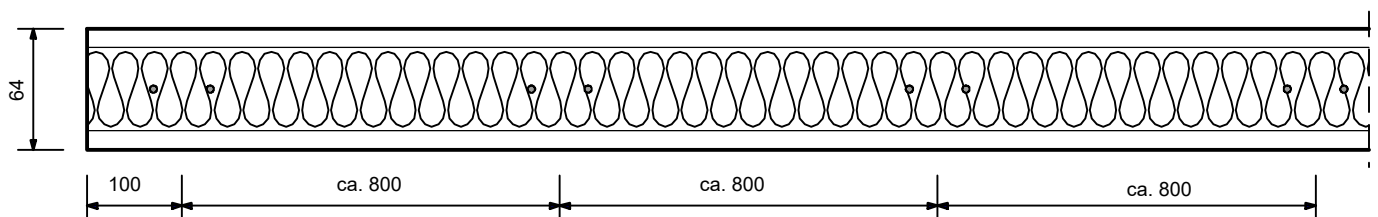
*without base bar

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

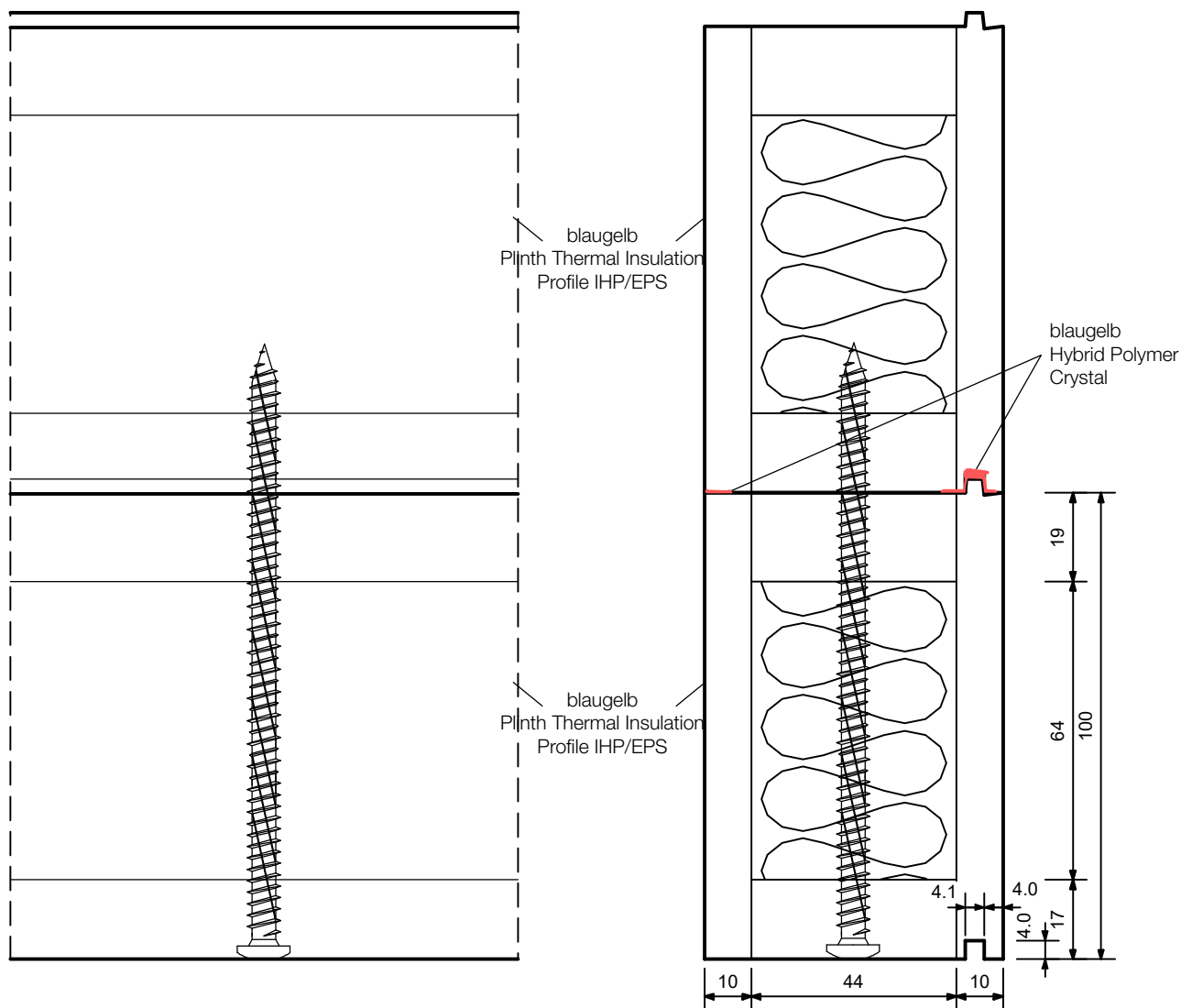
2.2.0.3. Double application with window frames and lifting/sliding doors



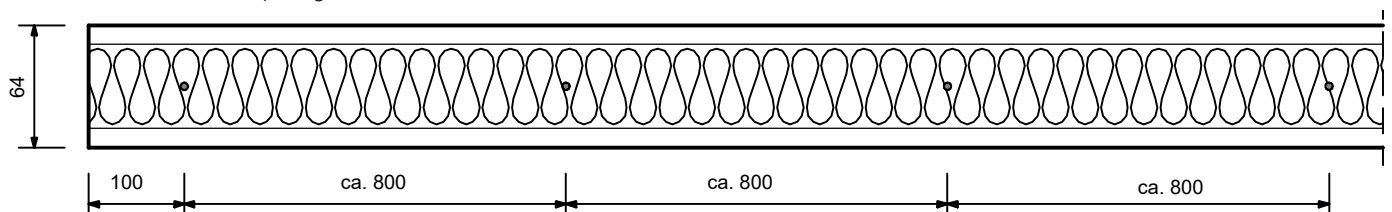
Schematic screw spacings



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

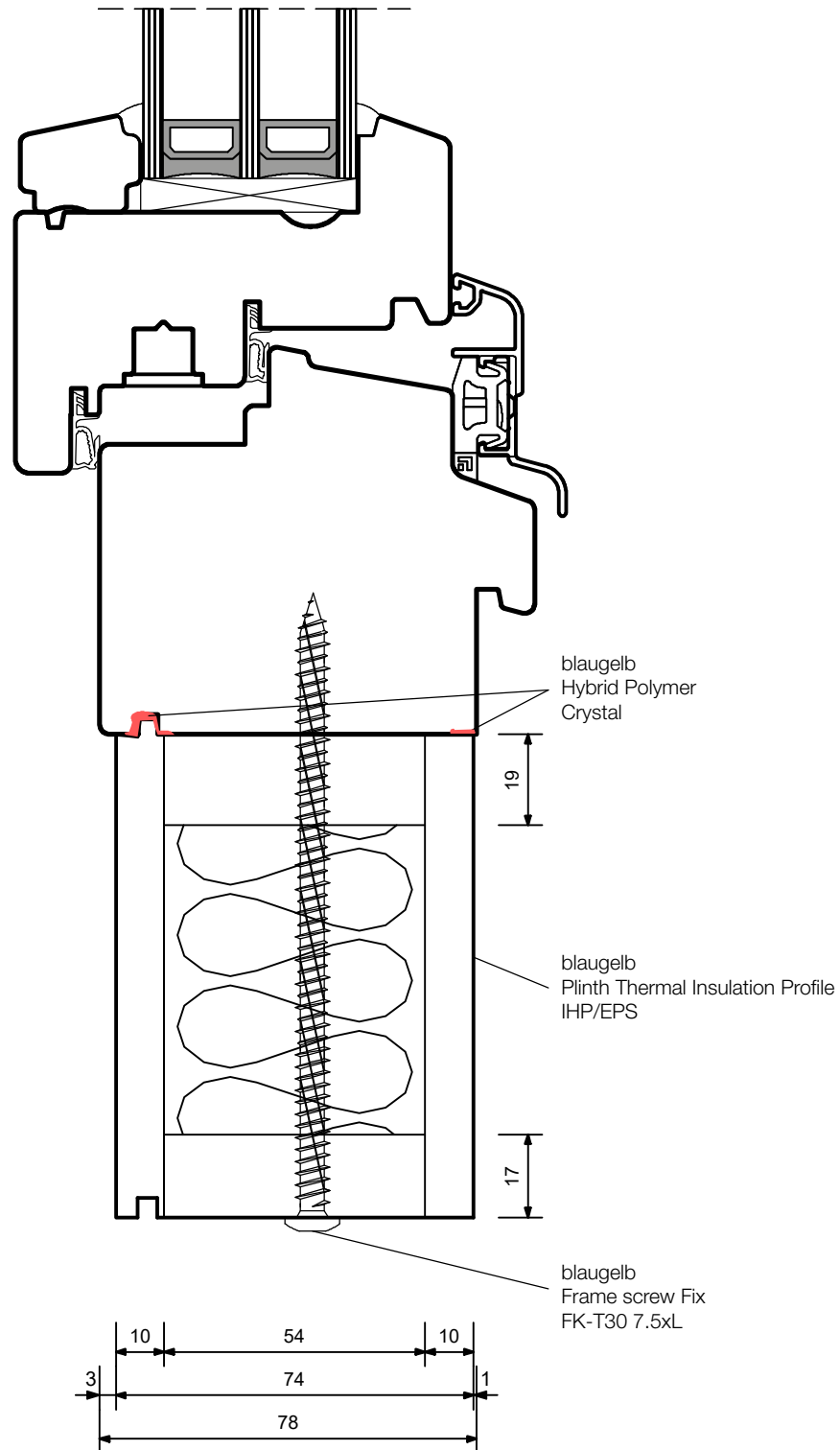
2.2.0.4. Double application with window frames and lifting/sliding doors, threshold

Schematic screw spacings

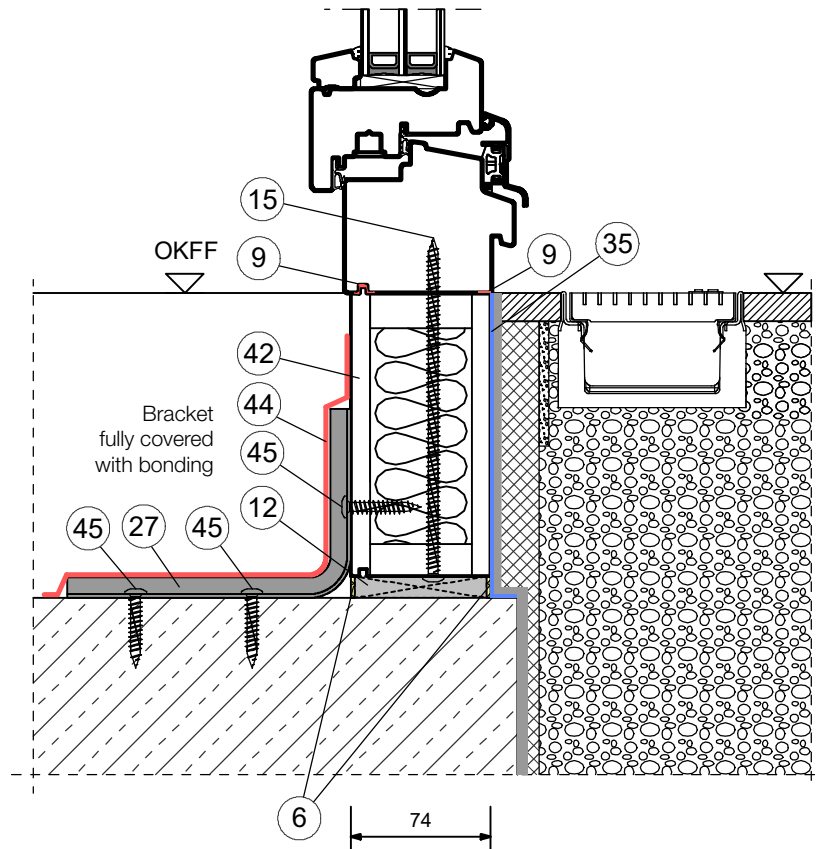


WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.1. Window frame installation situation



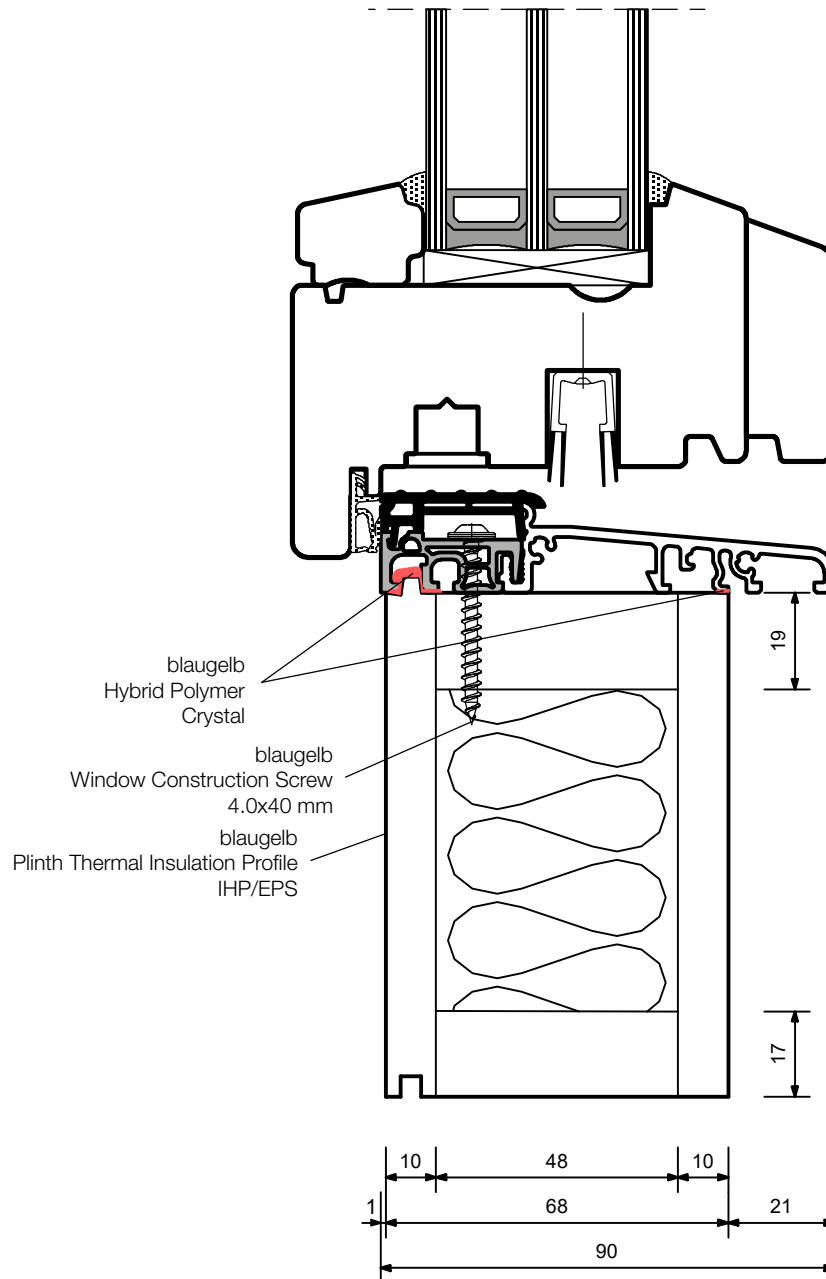
WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.1. Window frame installation situation

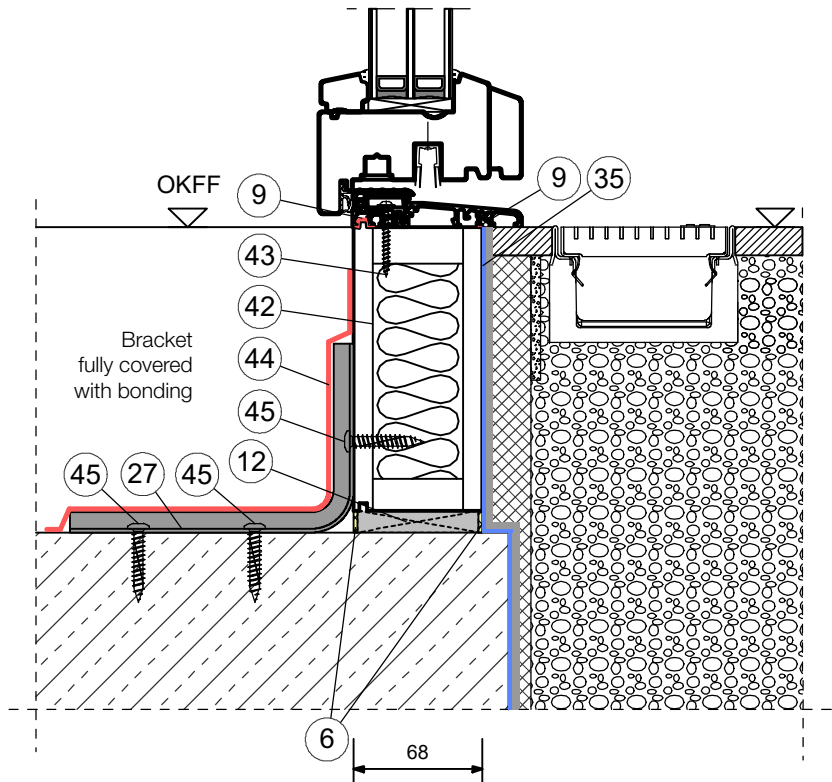
- (6)** | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- (9)** | blaugelb Hybrid Polymer Crystal
- (12)** | blaugelb Spacer Block
- (15)** | blaugelb Frame screw Fix FK-T30 7.5xL
- (27)** | blaugelb Assembly bracket 156.5x100 mm

- (35)** | Waterproofing according to DIN 18533
- (42)** | blaugelb Plinth Thermal Insulation Profile IHP/EPS
- (44)** | blaugelb Foil Duo^{SL} 1050 Power One
- (45)** | blaugelb Frame screw Fix FK-T30 7.5x42 mm

2.2.2. Threshold installation situation



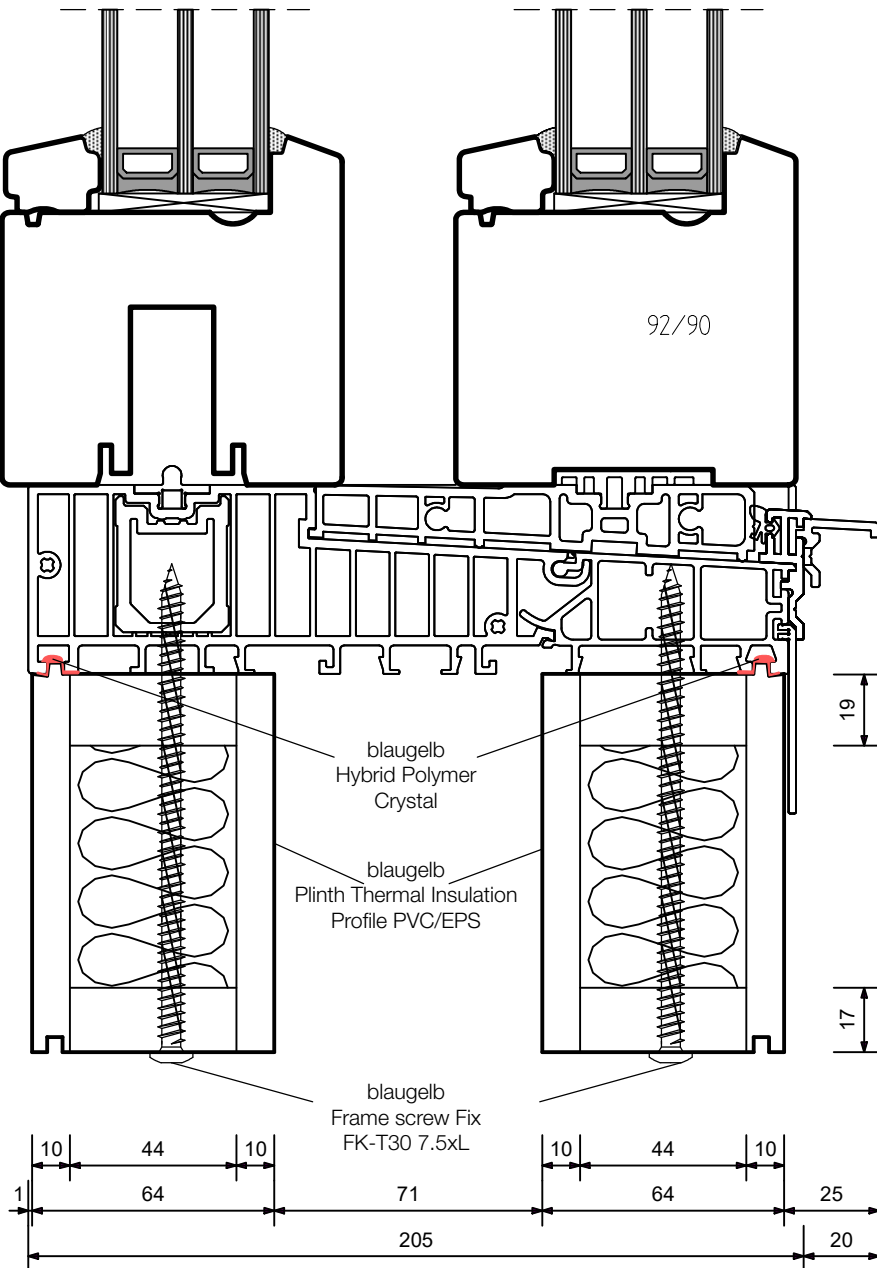
WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.2. Threshold installation situation

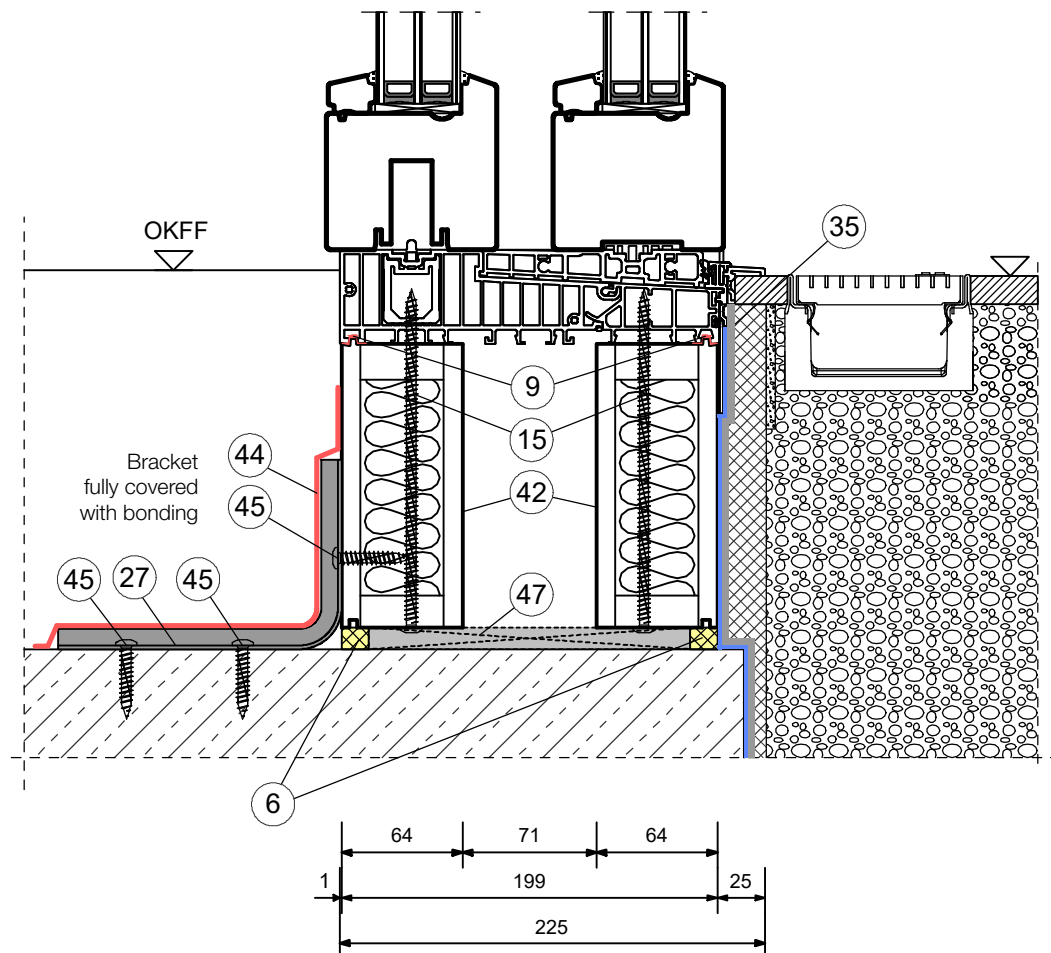
- | | |
|---|---|
| <p>⑥ blaugelb 1C Gun Foam Premium Allseason XXL Class E</p> <p>⑨ blaugelb Hybrid Polymer Crystal</p> <p>⑫ blaugelb Spacer Block</p> <p>⑳ blaugelb Assembly bracket 156.5x100 mm</p> <p>㉓ Waterproofing according to DIN 18533</p> | <p>㉔ blaugelb Plinth Thermal Insulation Profile IHP/EPS</p> <p>㉕ blaugelb Window Construction Screw 4.0x40 mm</p> <p>㉖ blaugelb Foil Duo^{SL} 1050 Power One</p> <p>㉗ blaugelb Frame screw Fix FK-T30 7.5x42 mm</p> |
|---|---|

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.3. Lifting/sliding door installation situation



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

2.2.3. Lifting/sliding door installation situation

- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Assembly bracket 156.5x100 mm
- ㉓ | Waterproofing according to DIN 18533

- ㉔ | blaugelb Plinth Thermal Insulation Profile IHP/EPS
- ㉖ | blaugelb Foil Duo^{SL1050} Power One
- ㉗ | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- ㉙ | blaugelb Shim Block HST 170 mm

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

2.3.0.1. Product features

The blaugelb Plinth Thermal Insulation Profile EPS is made from a high-density EPS (expanded polystyrene) and offers the best possible heat and moisture protection on front doors and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile EPS is sturdy, durable and is exceptionally quick and easy to fit. The blaugelb Plinth Thermal Insulation Profile EPS provides thermal insulation and reduces the scope of conventional plastic profiles to form thermal bridges. It is dimensionally stable, 100 % free of HCFCs, HFCs and HBCDs. The blaugelb Plinth Thermal Insulation Profile EPS was specially developed for fitting as a substructure thermal insulation profile under thresholds.



By virtue of the innovative dovetail joint, the blaugelb Plinth Thermal Insulation Profile EPS can be positively interlocked, to create any desired length. The dovetail joint reduces the amount of waste, possibly even avoiding waste altogether, while the 1,175 mm length of the individual profiles is ideal for transport and storage (Europallet). Thanks to its low weight and compact dimensions, the blaugelb Plinth Thermal Insulation Profile EPS is unbeatably quick and straightforward to process.

With the tongue and groove joint, the two blaugelb Plinth Thermal Insulation Profiles EPS which are to be joined have a groove on one edge and a tongue on the other edge and can be coupled in height one under the other.

Product benefits:

Benefits of plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile EPS prevents damage caused by moisture and mould

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

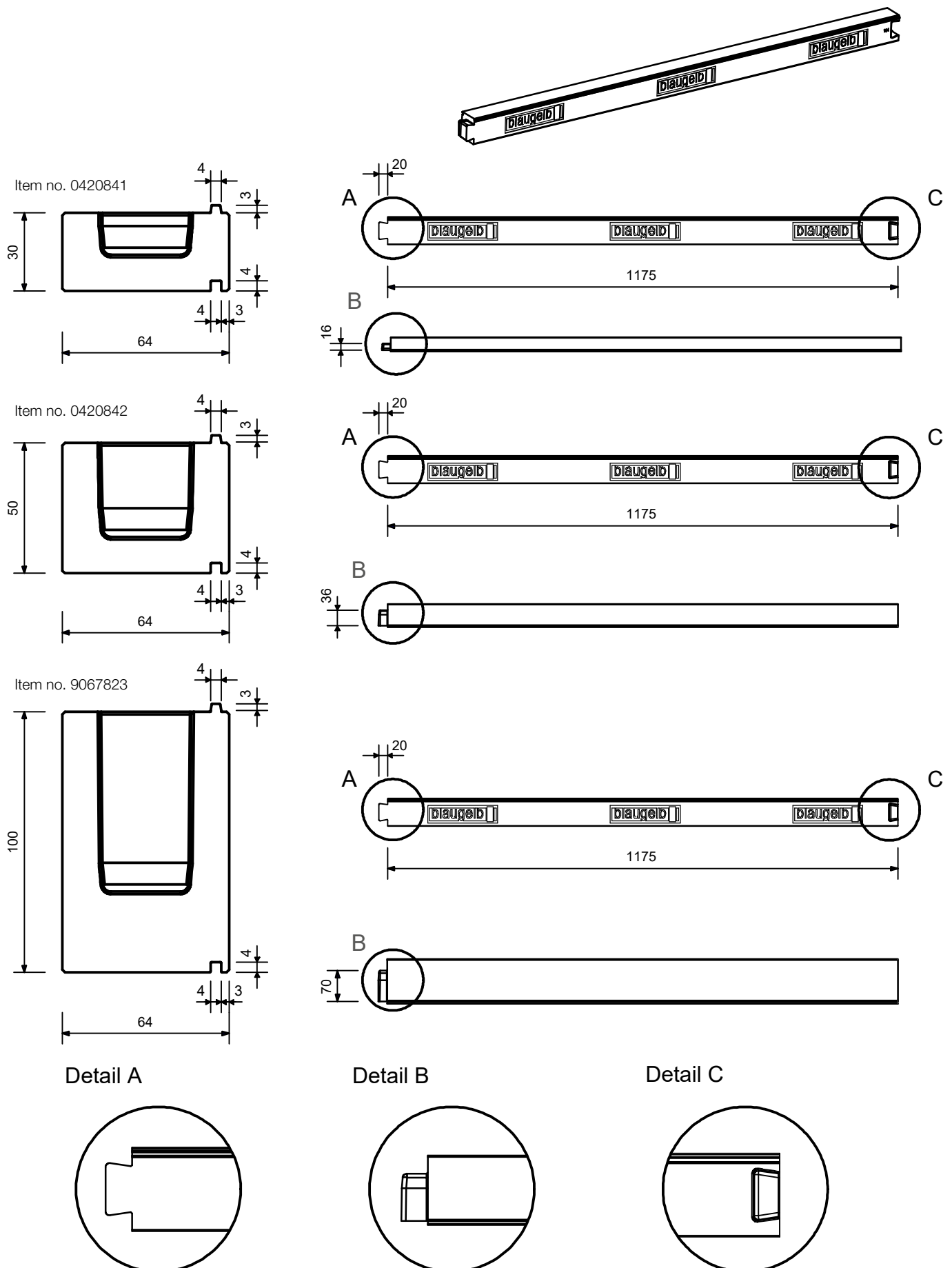
Material:	High-density EPS (expanded polystyrene), high ductility
Colour:	Grey
Compressive load bearing capacity at max. total deformation of 2 %:	1,260 kg/dm ²
Compressive load bearing capacity at 60 x 40 mm: (blaugelb Spacer Block)	5,800 N
Compressive load bearing capacity at 210 x 53 mm: (blaugelb Shim Block HST)	15,510 N
Fire behaviour: DIN 4102-1	Building material class B1 (difficult to ignite) Class E (DIN EN 13501-1)
Thermal conductivity nominal value λ_D : DIN EN 12667	$\lambda = 0.040 \text{ W/m}^2\text{K}$
Water vapour diffusion resistance: DIN EN ISO 12572	380 – 550 μ
Air permeability: EN 12207	Class 4
Bending strength: DIN EN 12089	$\geq 650 \text{ kPa}$
Compression stress (10 %) compression: DIN EN 13163:2015-04	$\geq 2,500 \text{ kPa}$
Compression stress (2 %) compression: DIN EN 13163:2015-04	$\geq 1,100 \text{ kPa}$
Shear strength: DIN EN ISO 14130	0.217 N/mm^2
Dimensional strength: DIN ISO 75-1	Short-term up to +95 °C Long-term up to +85 °C
Dimensional stability: DIN EN 13163:2015-04	Very high, including outdoor weathering
Water absorption after 28 days under water: DIN 12087	$\leq 1.5 \text{ vol. \%}$
Screw withdrawal values: blaugelb Frame screw Fix FK-T30 7.5x42 mm sfs window sill screw 4.5x35 mm	$F_{RK, AZ} 1,200 \text{ N}$ $F_{RK, AZ} 510 \text{ N}$
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

If carried out properly according to DIN 18195-4 and based on DIN 68800-2, fig. A.11-14, sealing offers sufficient protection against moisture, particularly for:

- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

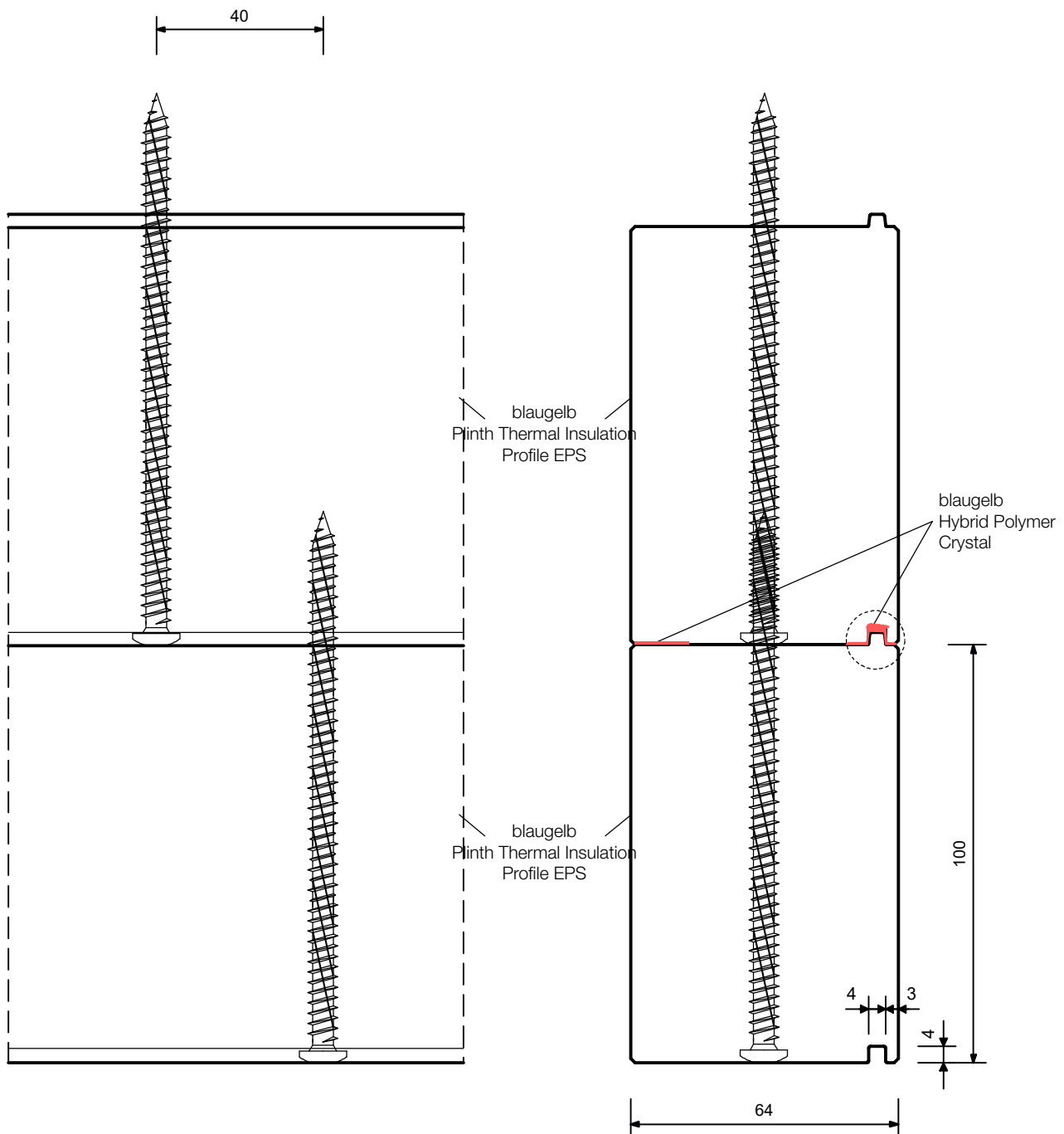
In consultation with the parties responsible for structural waterproofing, ensure that solvent-free sealing sheets which do not promote burning are used. The blaugelb Plinth Thermal Insulation Profile EPS is sealed against the frame of the structural element with a pasty polymer sealant blaugelb Hybrid Polymer Power Fix and secured mechanically with self-tapping screws.

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

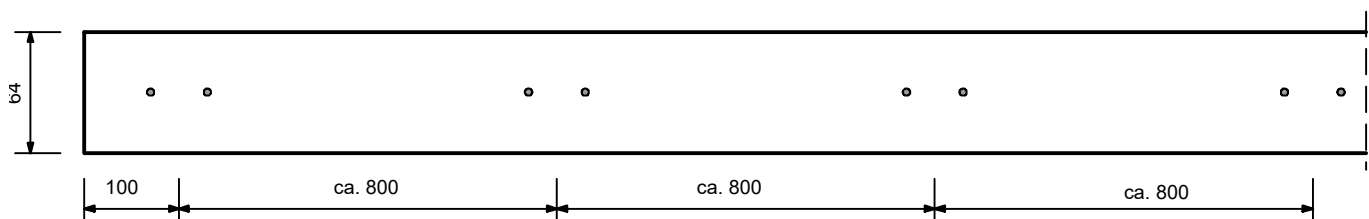
2.3.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile EPS

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

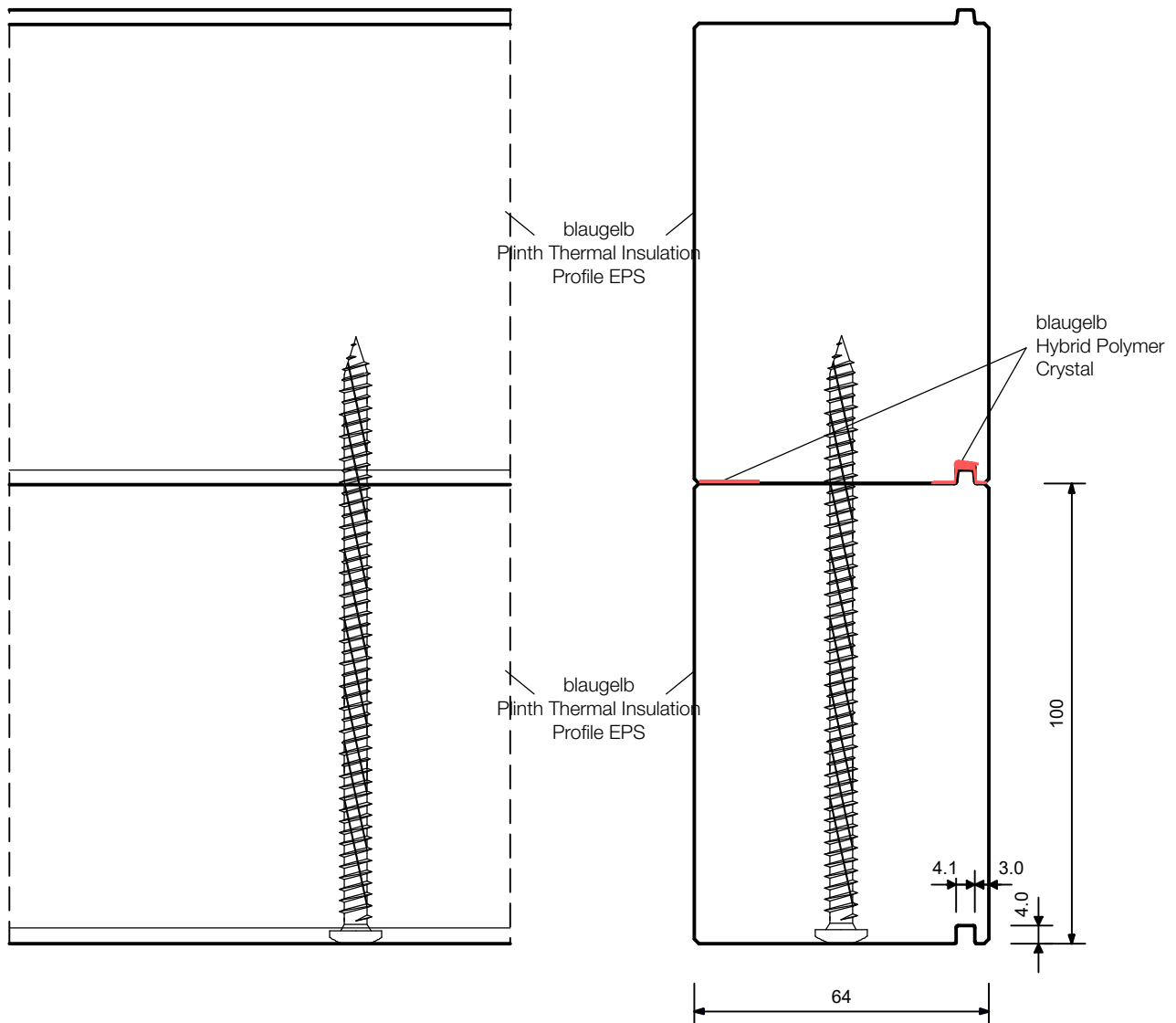
2.3.0.3. Double application with window frames and lifting/sliding doors



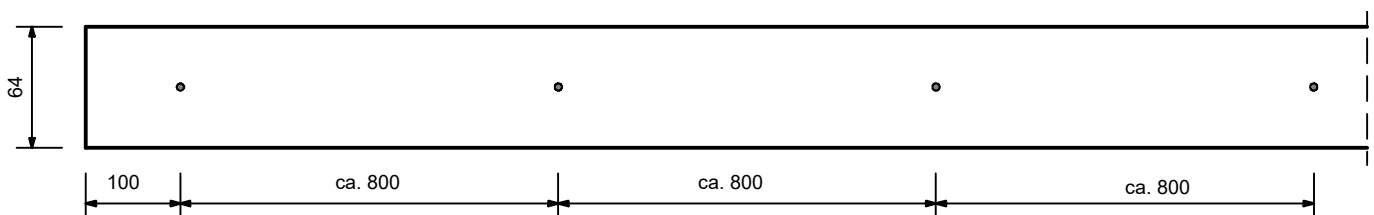
Schematic screw spacings



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

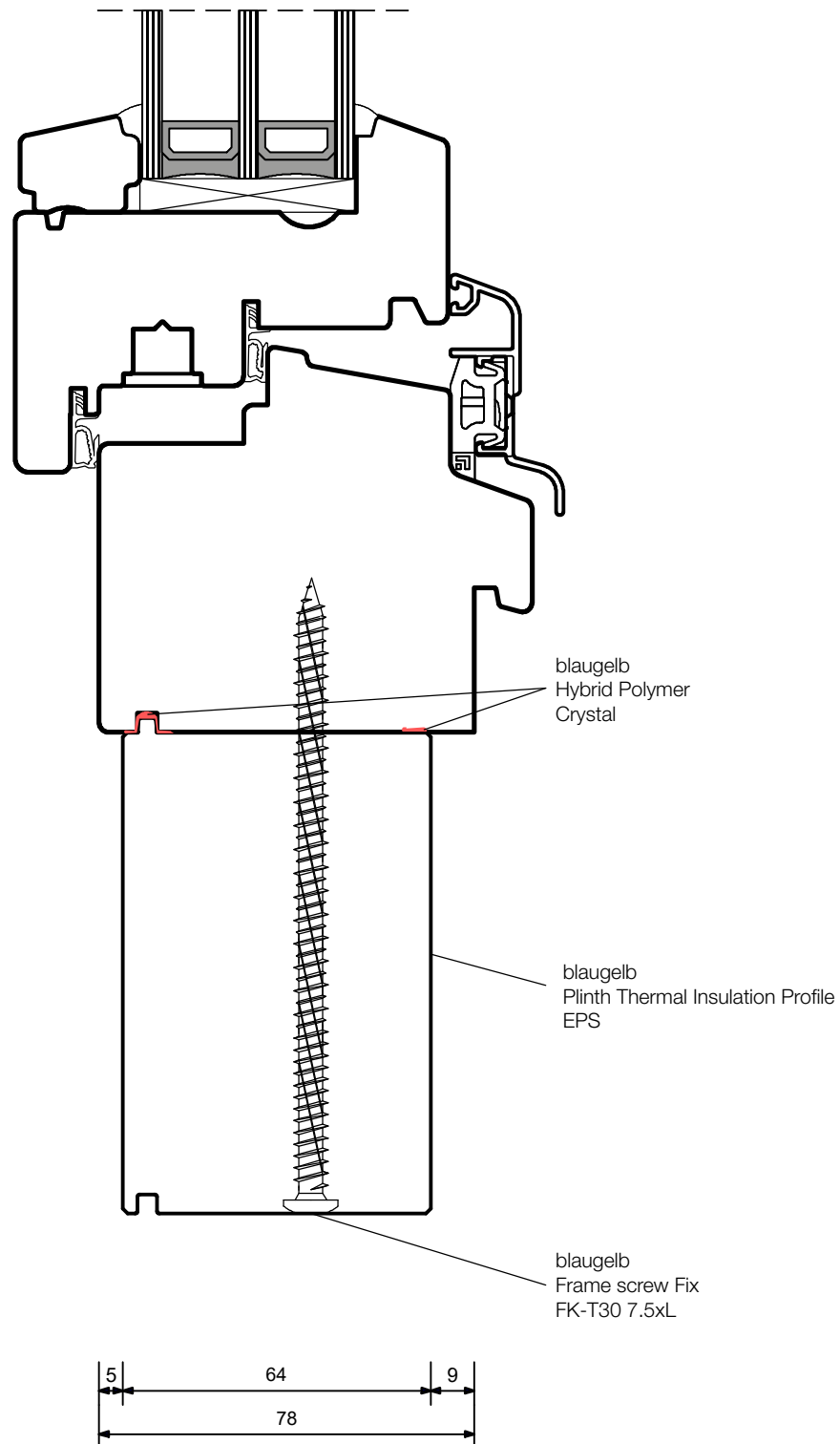
2.3.0.4. Double application with threshold

Schematic screw spacings

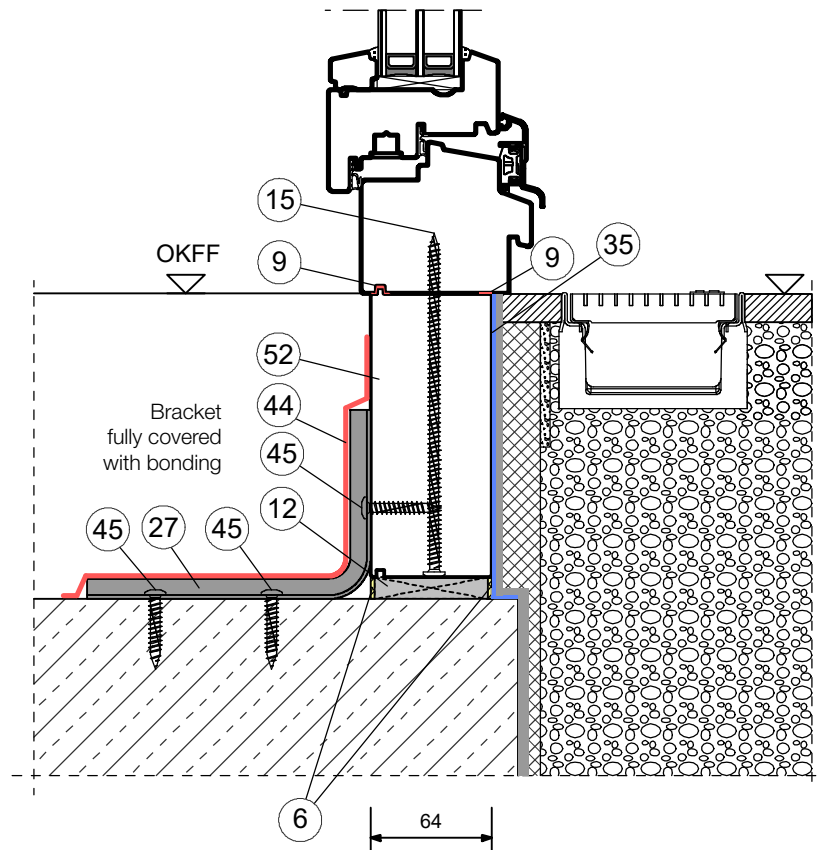


WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

2.3.1. Window frame installation situation



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

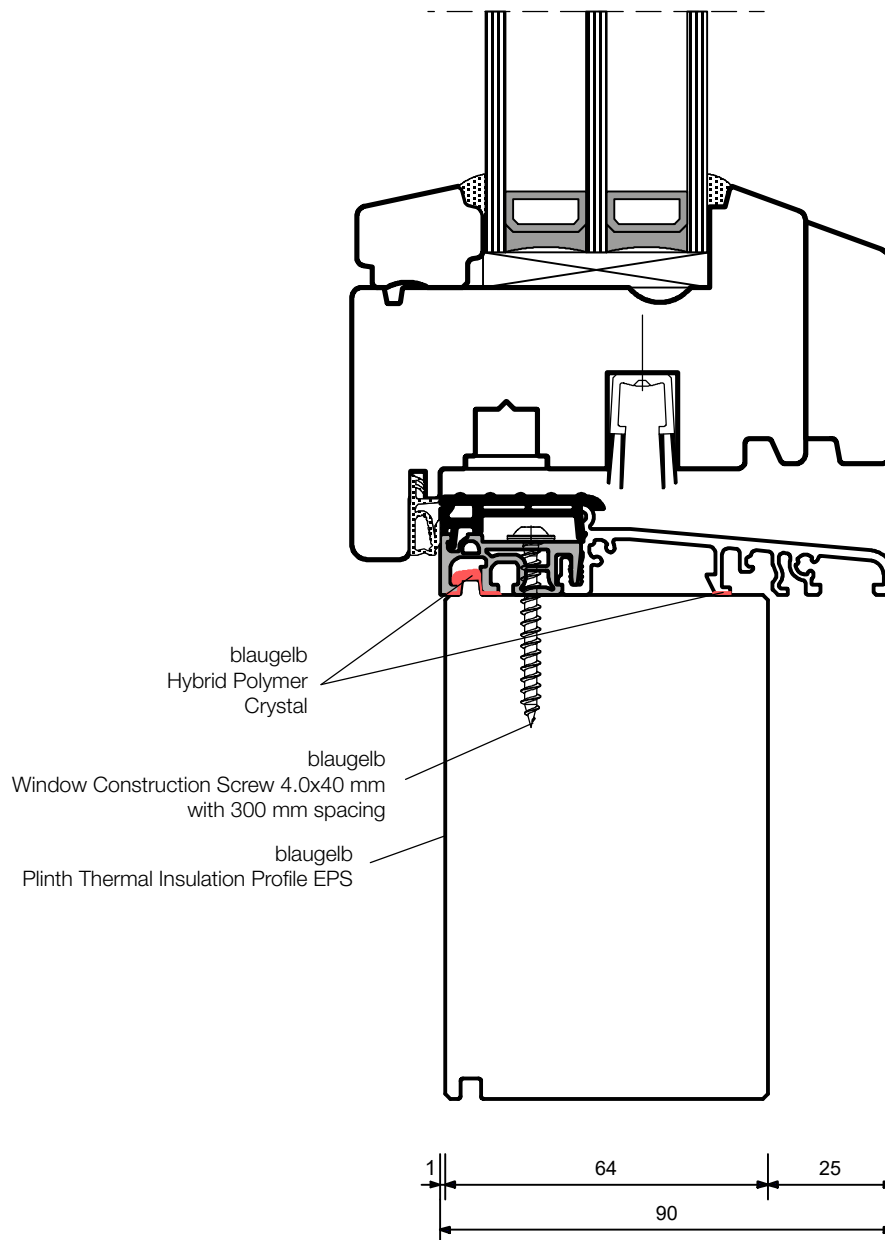
2.3.1. Window frame installation situation

- 6** | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- 9** | blaugelb Hybrid Polymer Crystal
- 12** | blaugelb Spacer Block
- 15** | blaugelb Frame screw Fix FK-T30 7.5xL
- 27** | blaugelb Assembly bracket 156.5x100 mm

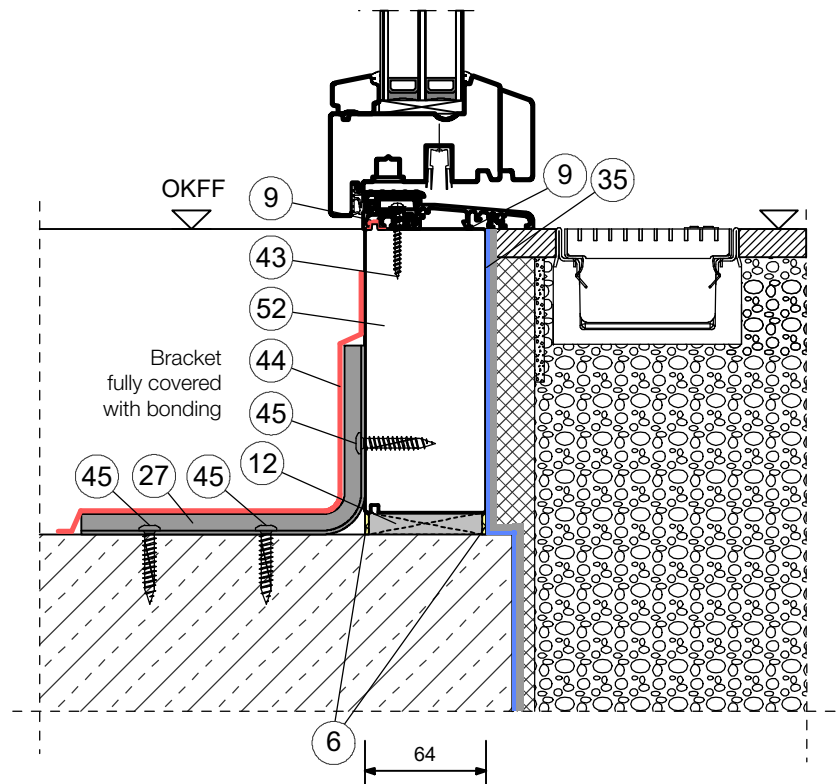
- 35** | Waterproofing according to DIN 18533
- 44** | blaugelb Foil Duo^{SL}1050 Power One
- 45** | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- 52** | blaugelb Plinth Thermal Insulation Profile EPS

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

2.3.2. Threshold installation situation



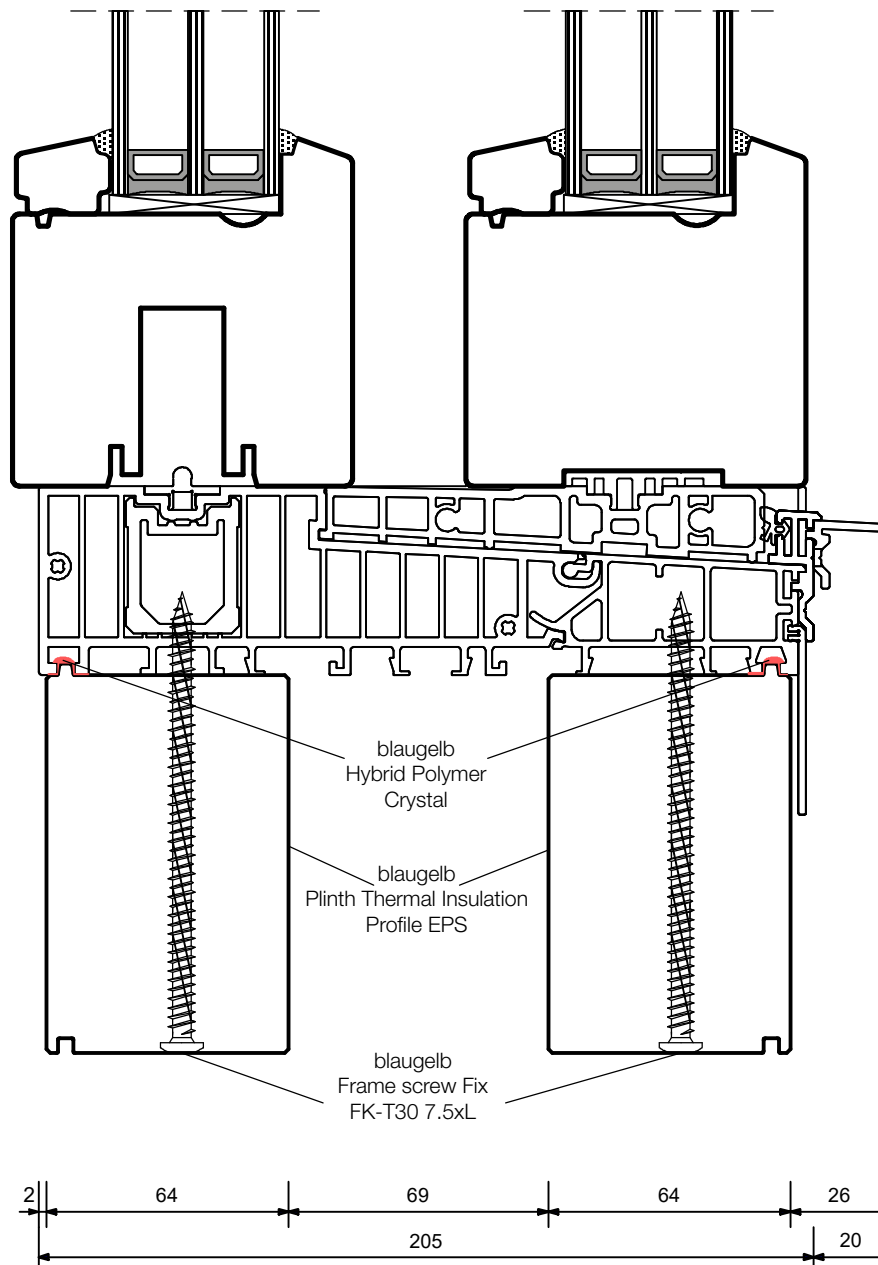
WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

2.3.2. Threshold installation situation

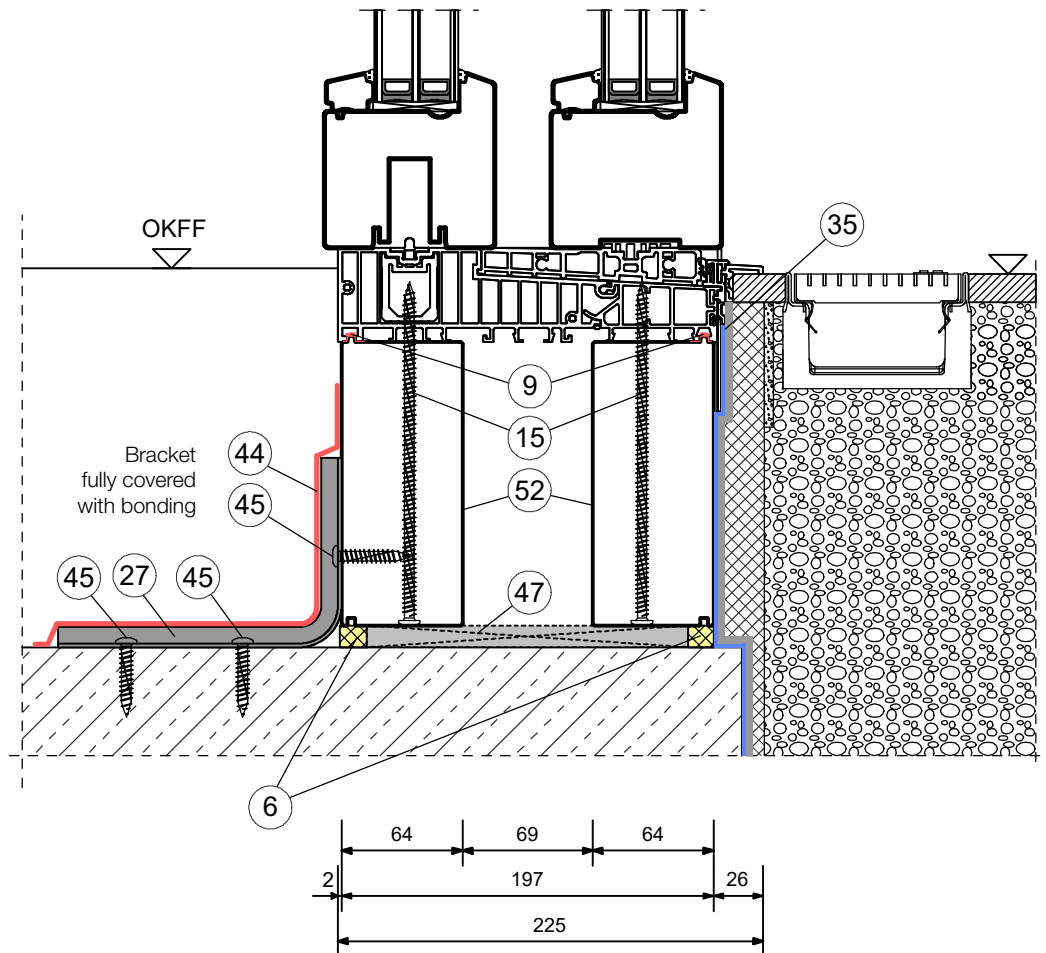
- | | |
|--|---|
| <p>(6) blaugelb 1C Gun Foam Premium Allseason XXL Class E</p> <p>(9) blaugelb Hybrid Polymer Crystal</p> <p>(12) blaugelb Spacer Block</p> <p>(27) blaugelb Assembly bracket 156.5x100 mm</p> <p>(35) Waterproofing according to DIN 18533</p> | <p>(43) blaugelb Window Construction Screw 4.0x40 mm</p> <p>(44) blaugelb Foil DuoSL¹⁰⁵⁰ Power One</p> <p>(45) blaugelb Frame screw Fix FK-T30 7.5x42 mm</p> <p>(52) blaugelb Plinth Thermal Insulation Profile EPS</p> |
|--|---|

WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

2.3.3. Lifting/sliding door installation situation



WOOD PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

2.3.3. Lifting/sliding door installation situation

- (6) | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- (9) | blaugelb Hybrid Polymer Crystal
- (15) | blaugelb Frame screw Fix FK-T30 7.5xL
- (27) | blaugelb Assembly bracket 156.5x100 mm
- (35) | Waterproofing according to DIN 18533

- (44) | blaugelb Foil Duo^{SL}1050 Power One
- (45) | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- (47) | blaugelb Shim Blocks HST 170 mm
- (52) | blaugelb Plinth Thermal Insulation Profile EPS

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.0.1 Product features

The blaugelb Plinth Thermal Insulation Profile PVC/EPS (expanded rigid polystyrene foam) offers the best possible heat and moisture protection on front and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile PVC/EPS consists of an EPS rigid foam core and two layers of poplar plywood coated on the outside with a PVC plastic. The poplar plywood has IW67 bonding quality and is bonded with an adhesive of D3 quality (EN 204-D3).



The blaugelb Plinth Thermal Insulation Profile PVC/EPS must be fitted in such a way that the fitting conditions for its useful life conform to use classes 0 or 1 according to DIN 68800-1:2011 or service class 1 according to DIN EN 1995-1-1:2010.

Product benefits:

Benefits of plinth thermal insulation using the Plinth Thermal Insulation Profile PVC/EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile PVC/EPS prevents damage caused by moisture and mould

Benefits of a groove/spacer block connection:

- Quick and easy assembly as a drilling template is not required
- Only one screw required for each fastening point
- Elements slide more easily across the substrate on screw heads

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

Surface and cover plate:	1 mm PVC VEKA on both sides and 12 or 24 mm plywood panel, IW67
Thermal insulation:	EPS perimeter 30 kg/m³, intensive expanded rigid polystyrene foam
Gluing:	IW67 waterproof D3 (EN204-D3)
blaugelb Plinth Thermal Insulation Profile 60 mm thickness:	1 mm 24 mm 22 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 64 mm thickness:	1 mm 24 mm 26 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 68 mm thickness:	1 mm 24 mm 30 mm 12 mm 1 mm
blaugelb Plinth Thermal Insulation Profile 74 mm thickness:	1 mm 24 mm 36 mm 12 mm 1 mm
Thermal conductivity U value at 60 mm:	0.888 W/m²K
Thermal conductivity U value at 64 mm:	0.802 W/m²K
Thermal conductivity U value at 68 mm:	0.731 W/m²K
Thermal conductivity U value at 74 mm:	0.645 W/m²K
Screw withdrawal value SPT 4.3x40 at a vertical engagement depth of 28 mm:	2,150 N
Screw withdrawal value FBFK 7.5x62 at a horizontal engagement depth of 40 mm:	3,526 N
Pressure resistance:	5,000 kg/m

If carried out properly according to DIN 18195-4 and based on DIN 68800-2 fig. A.11-14, sealing offers sufficient protection against moisture, **particularly for:**

- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

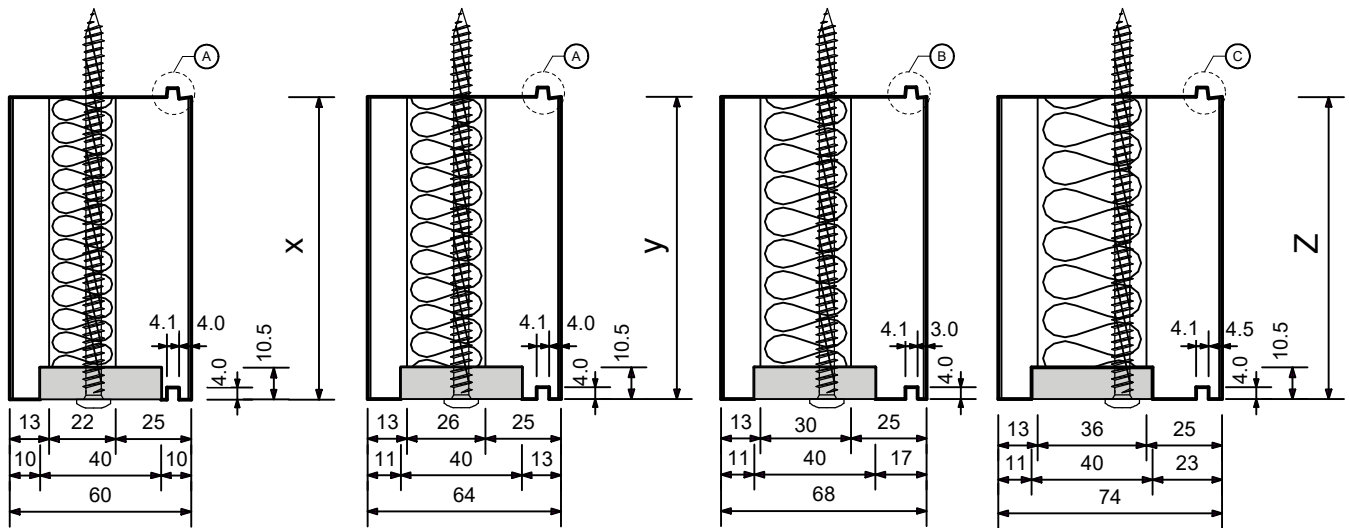
If carried out properly, sealing on the inside and outside between the blaugelb Plinth Thermal Insulation Profile PVC/EPS at the top and the elements at the bottom ensures lasting impermeability provided that sealing is performed in accordance with DIN 18195-4.

Cross-section of a blaugelb Plinth Thermal Insulation Profile PVC/EPS:

PVC	Pappel-Spertholz	EPS-Hartschaumkern	Pappel-Spertholz	PVC
1 mm	24 mm	22 mm bzw. 26 mm bzw. 30 mm bzw. 36 mm	12 mm	1 mm

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile PVC/EPS



x: 50/100/130/150/180

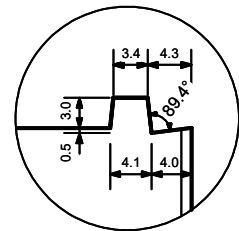
y: 50/100/130/150/165/180

z: 100/130/150/180

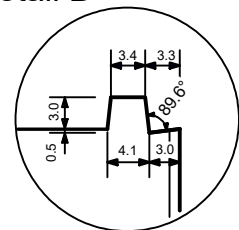
The blaugelb Frame screw Fix FK-T30 is intended to protrude because of the blaugelb Spacer Block used. If this is not desired for construction reasons, a Spacer Block with a smaller height (5 mm) must be used.

Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x50x60 mm	1 piece	9070180
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x60 mm	1 piece	9070181
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x60 mm	1 piece	9070182
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x60 mm	1 piece	9070183
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x60 mm	1 piece	9070184
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x50x64 mm	1 piece	9052718
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x64 mm	1 piece	0413898
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x64 mm	1 piece	0413899
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x64 mm	1 piece	0413900
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x165x64 mm	1 piece	9068730
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x64 mm	1 piece	0413901
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x68 mm	1 piece	0413902
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x68 mm	1 piece	0413903
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x68 mm	1 piece	0413904
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x68 mm	1 piece	0413905
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x100x74 mm	1 piece	0433175
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x130x74 mm	1 piece	0433176
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x150x74 mm	1 piece	0433177
blaugelb Plinth Thermal Insulation Profile PVC/EPS 3088x180x74 mm	1 piece	0433178
Twist drill DIN 1869 HSS-G extra long D = 6 mm, L = 330 mm	1 piece	0417239
Bit 867/4 TX30 70 mm	1 piece	6601006844

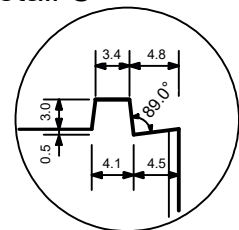
Detail A



Detail B

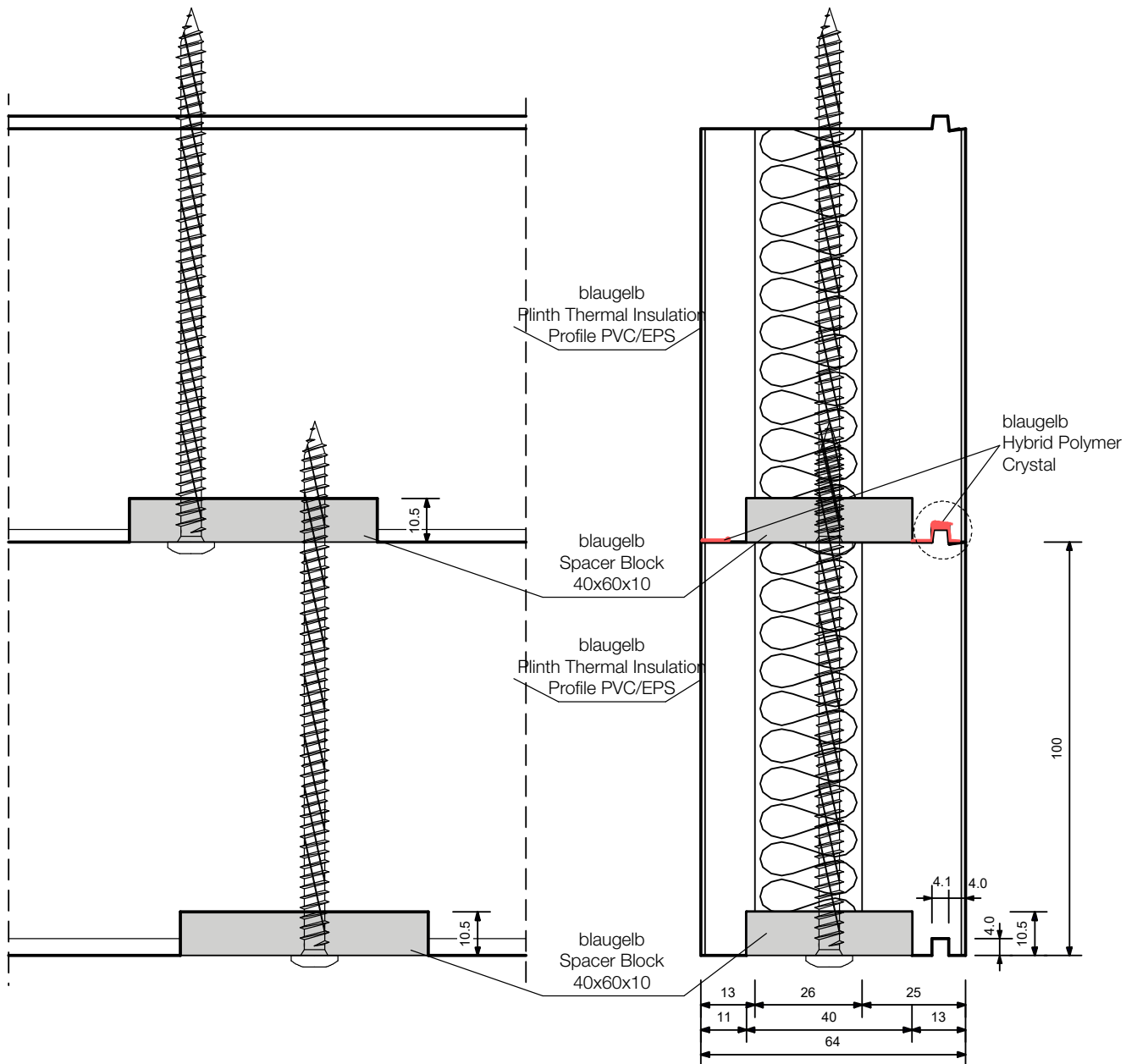


Detail C

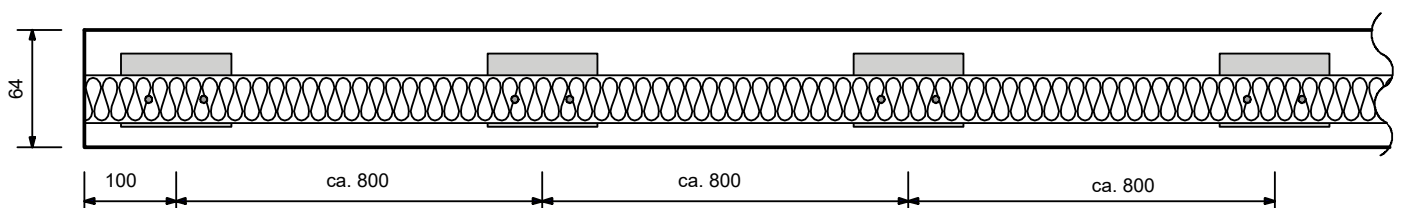


ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

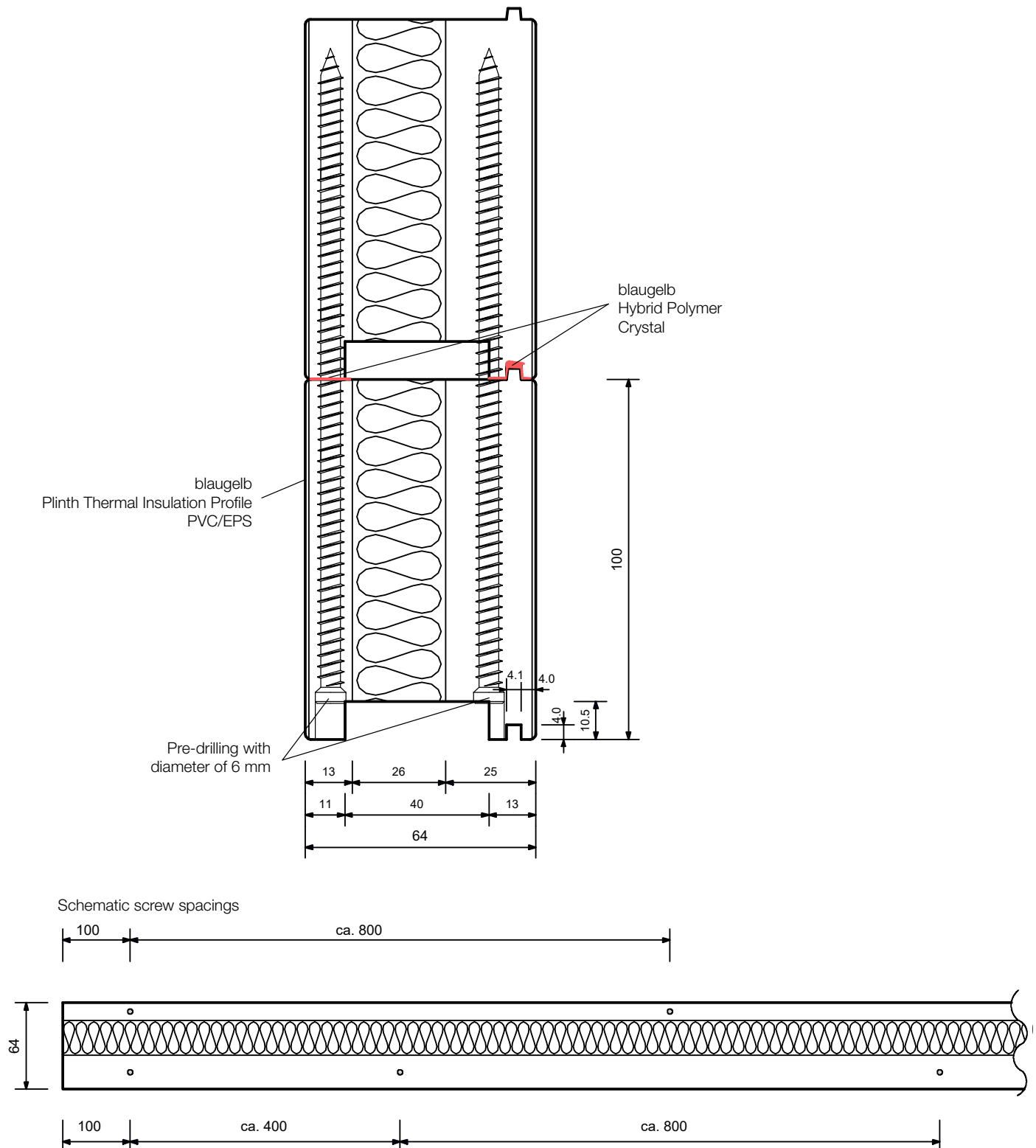
3.1.0.3. Double application with window frames and lifting/sliding doors



Schematic screw spacings

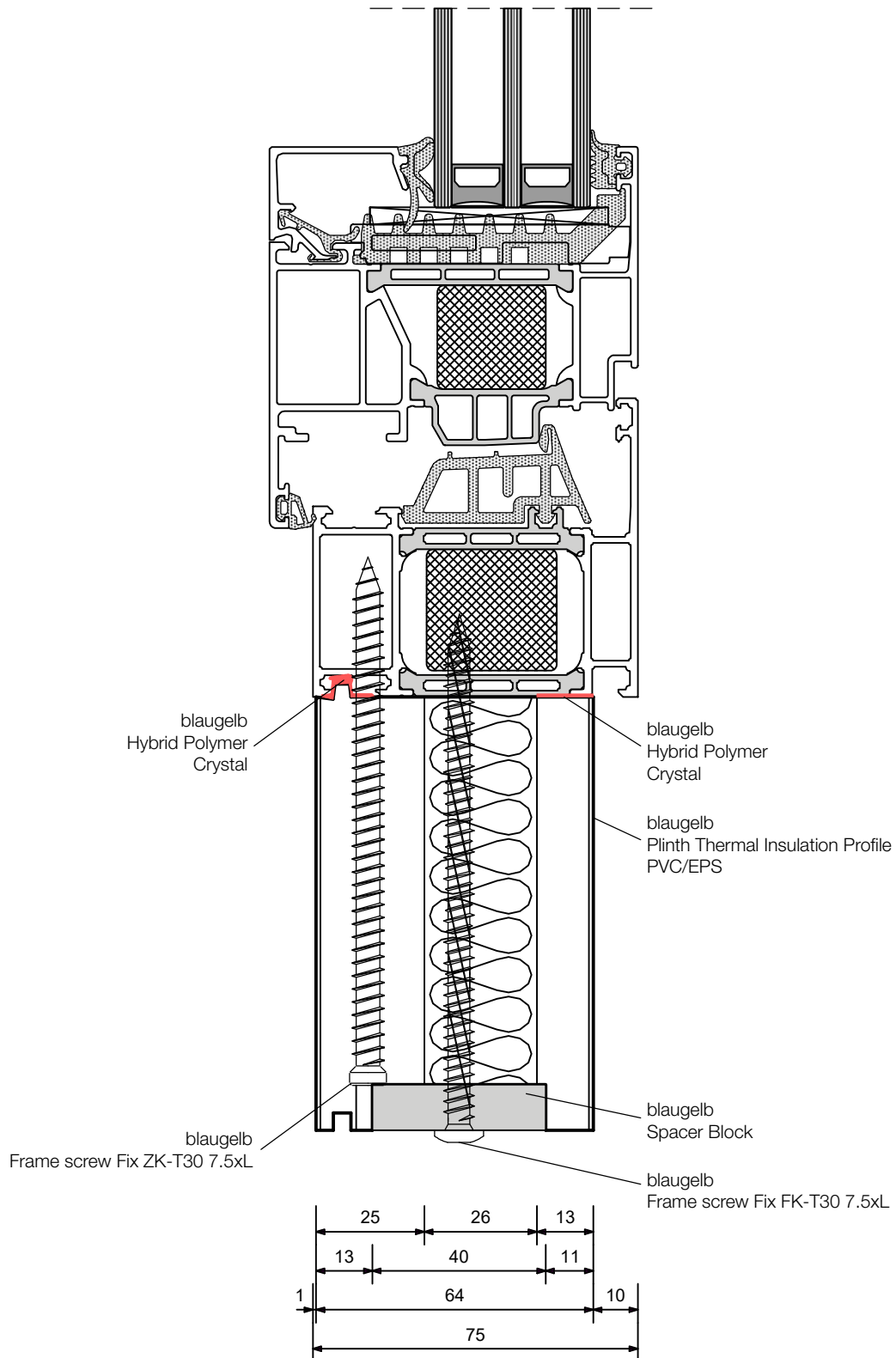


ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.0.4. Double application with window frames and lifting/sliding doors, threshold

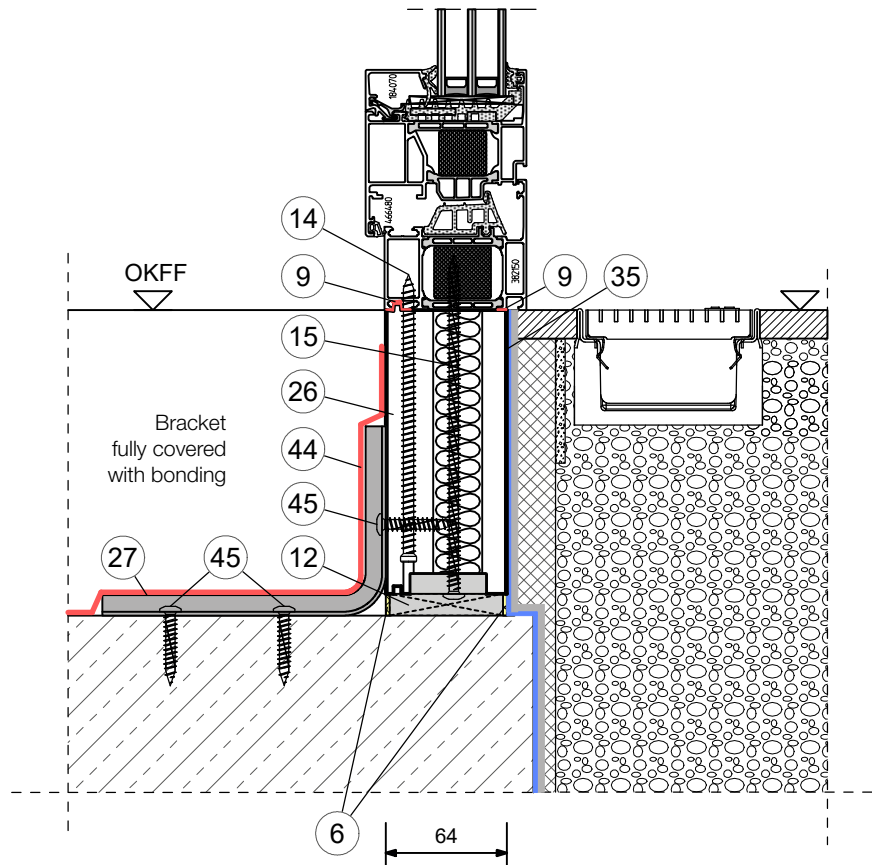
ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.1. Window frame installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

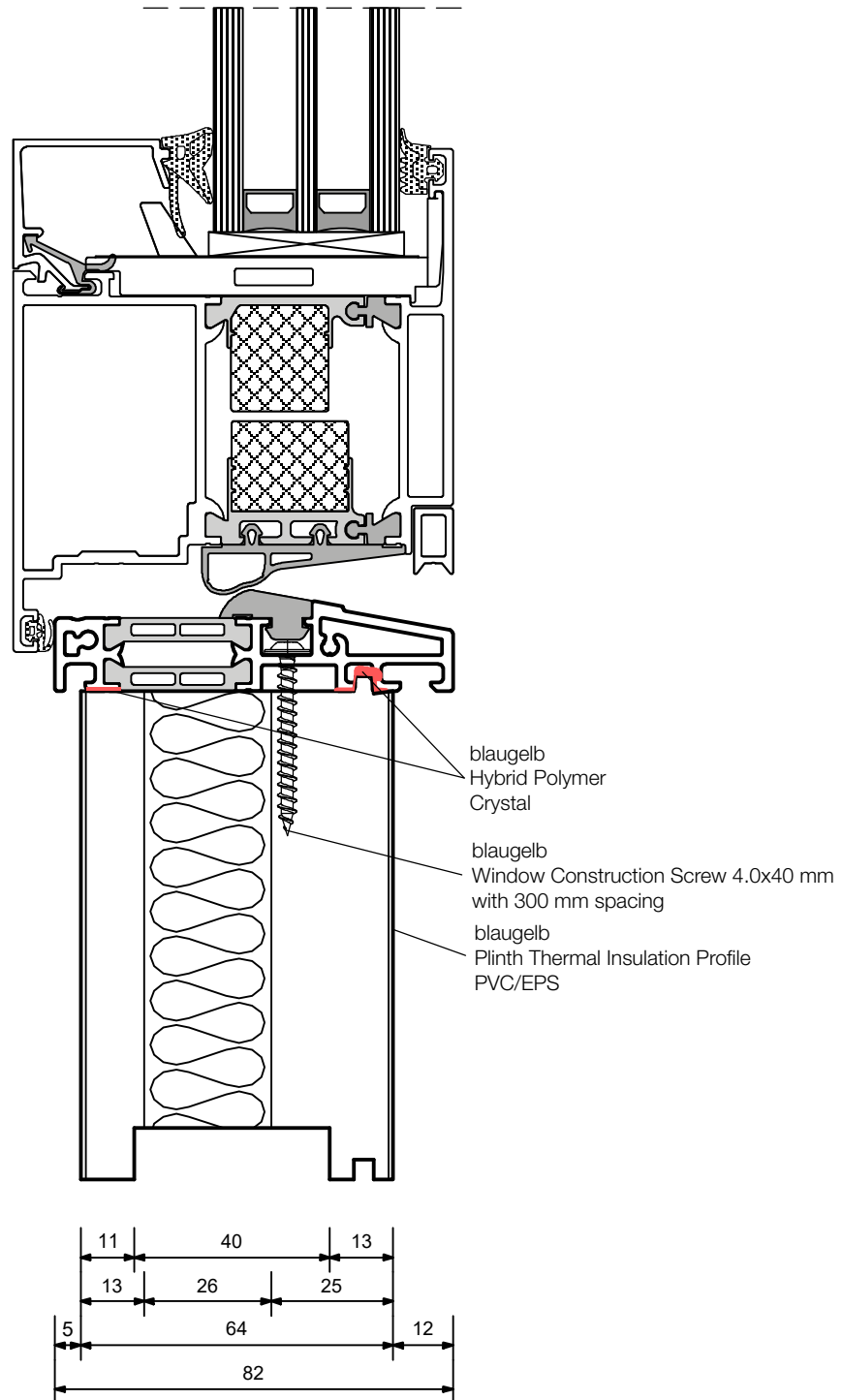
3.1.1. Window frame installation situation



- | | | | |
|---|--|----|--|
| ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E | ②⑥ | blaugelb Plinth Thermal Insulation Profile PVC/EPS |
| ⑨ | blaugelb Hybrid Polymer Crystal | ②⑦ | blaugelb Assembly bracket 156.5x100 mm |
| ⑫ | blaugelb Spacer Block | ③⑤ | Waterproofing according to DIN 18533 |
| ⑭ | blaugelb Frame screw Fix ZK-T30 7.5xL | ④④ | blaugelb Foil Duo ^{SL} 1050 Power One |
| ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL | ④⑤ | blaugelb Frame screw Fix FK-T30 7.5x42 mm |

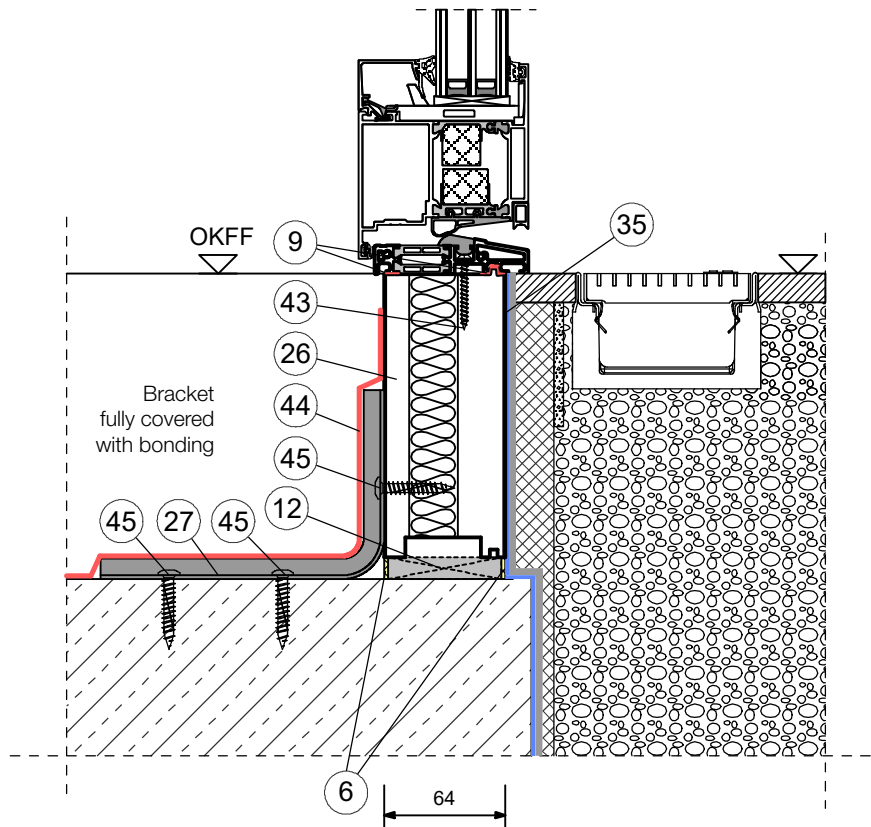
ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.2. Threshold installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

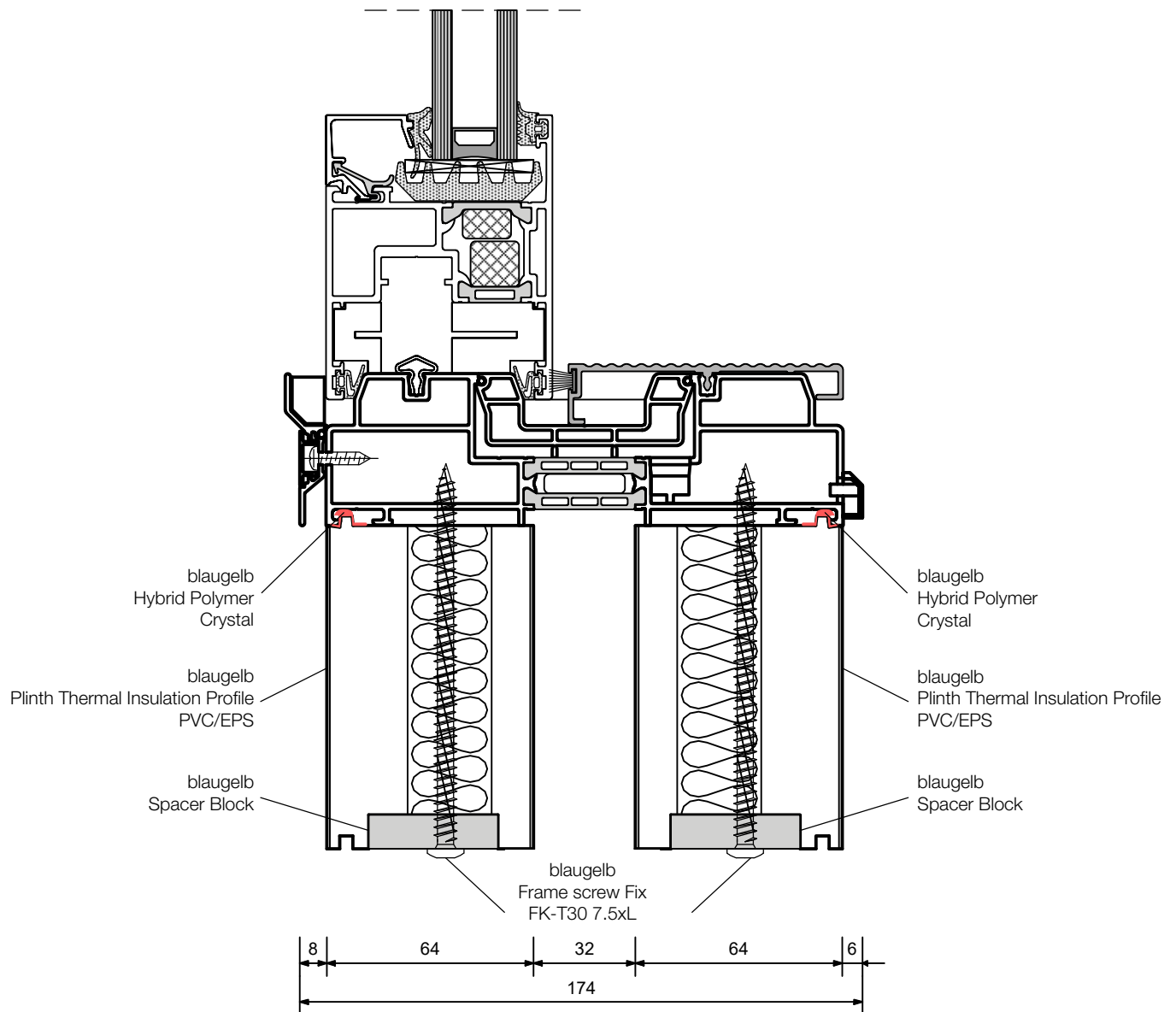
3.1.2. Threshold installation situation



- | | |
|--|--|
| <p>(6) blaugelb 1C Gun Foam Premium Allseason XXL Class E</p> <p>(9) blaugelb Hybrid Polymer Crystal</p> <p>(12) blaugelb Spacer Block</p> <p>(26) blaugelb Plinth Thermal Insulation Profile PVC/EPS</p> <p>(27) blaugelb Assembly bracket 156.5x100 mm</p> | <p>(35) Waterproofing according to DIN 18533</p> <p>(43) blaugelb Window Construction Screw 4.0x40 mm</p> <p>(44) blaugelb Foil Duo^{SL1050} Power One</p> <p>(45) blaugelb Frame screw Fix FK-T30 7.5x42 mm</p> |
|--|--|

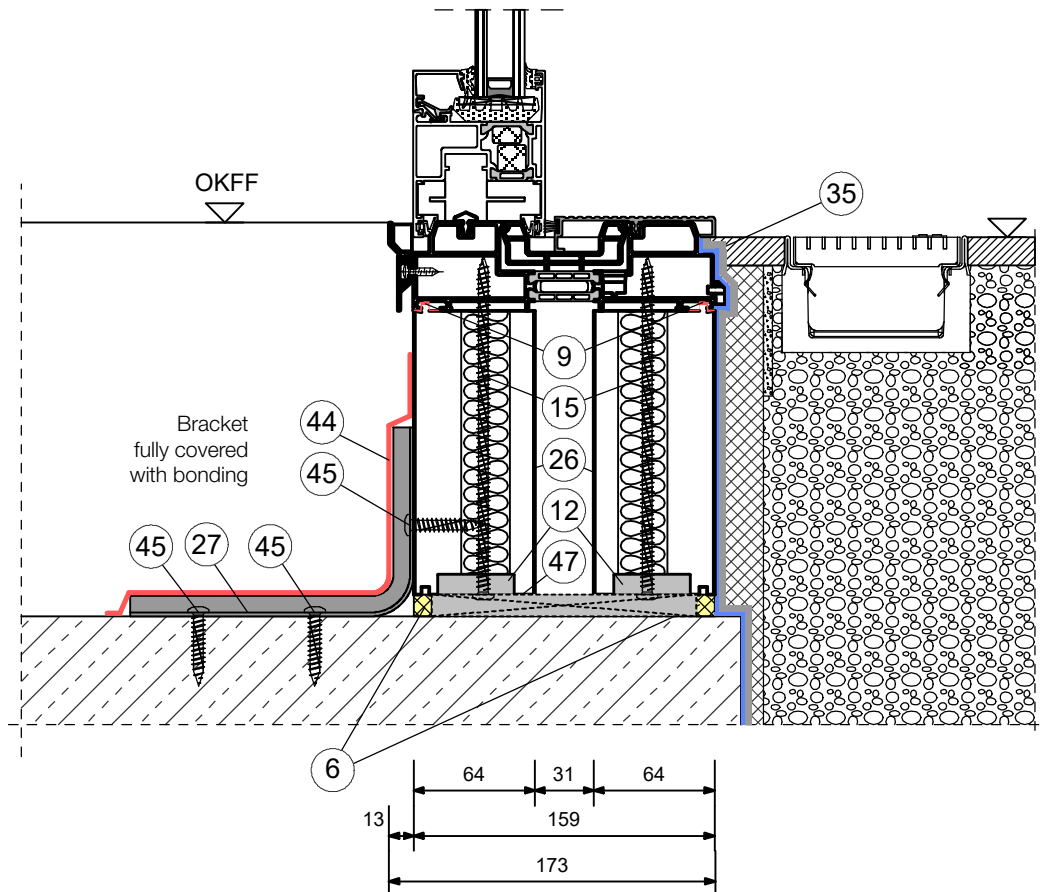
ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.3. Lifting/sliding door installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile PVC/EPS

3.1.3. Lifting/sliding door installation situation



- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Plinth Thermal Insulation Profile PVC/EPS

- ㉓ | blaugelb Assembly bracket 156.5x100 mm
- ㉕ | Waterproofing according to DIN 18533
- ㉗ | blaugelb Foil Duo^{SL} 1050 Power One
- ㉙ | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- ㉛ | blaugelb Shim Block HST 170 mm

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.0.1. Product features

The blaugelb Plinth Thermal Insulation Profile IHP/EPS (integral rigid foam board/expanded rigid polystyrene foam) offers the best possible heat and moisture protection on house and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile IHP/EPS is comprised of an EPS rigid foam core and two layers of integral rigid foam board. The integral rigid foam board has IW67 bonding quality and is bonded with an adhesive of D3 quality (EN 204-D3).



Product benefits:

Benefits of plinth thermal insulation using the Plinth Thermal Insulation Profile IHP/EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile IHP/EPS prevents damage caused by moisture and mould

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

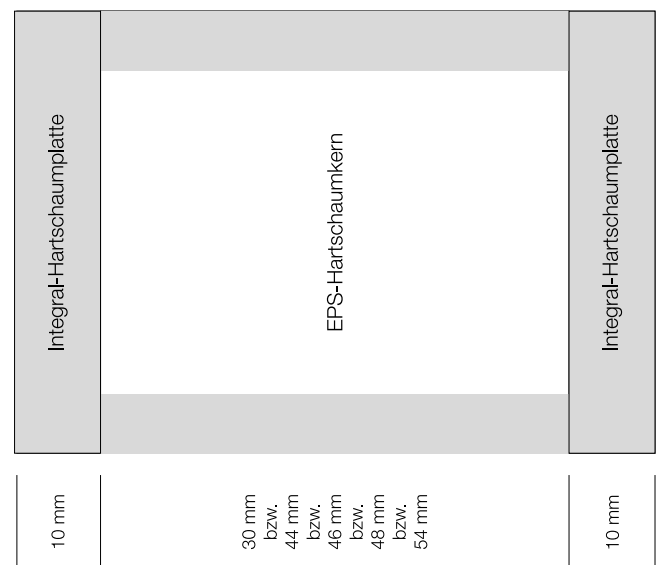
Surface and cover plate:	on both sides 10 mm IHP white
Thermal insulation:	EPS perimeter 30 kg/m³, intensive expanded rigid polystyrene foam
Gluings:	IW67 waterproof D3 (EN204-D3)
blaugelb Plinth Thermal Insulation Profile 50 mm thickness:	10 mm 30 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 64 mm thickness:	10 mm 44 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 66 mm thickness:	10 mm 46 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 68 mm thickness:	10 mm 48 mm 10 mm
blaugelb Plinth Thermal Insulation Profile 74 mm thickness:	10 mm 54 mm 10 mm
Thermal conductivity U value at 50 mm:	0.733 W/m²K
Thermal conductivity U value at 64 mm:	0.559 W/m²K
Thermal conductivity U value at 66 mm:	0.548 W/m²K
Thermal conductivity U value at 68 mm:	0.523 W/m²K
Thermal conductivity U value at 74 mm:	0.478 W/m²K
Screw withdrawal value: SPT 4.3x40 at a vertical engagement depth of 17 mm	1,750 N
Screw withdrawal value: Frame Screw Fix FK-T30 2x 7.5x42	3,240 N
Pressure resistance:	4,600 kg/m

If carried out properly according to DIN 18531 and based on DIN 68800-2 fig. A.11-14, sealing offers sufficient protection against moisture, **particularly** for:

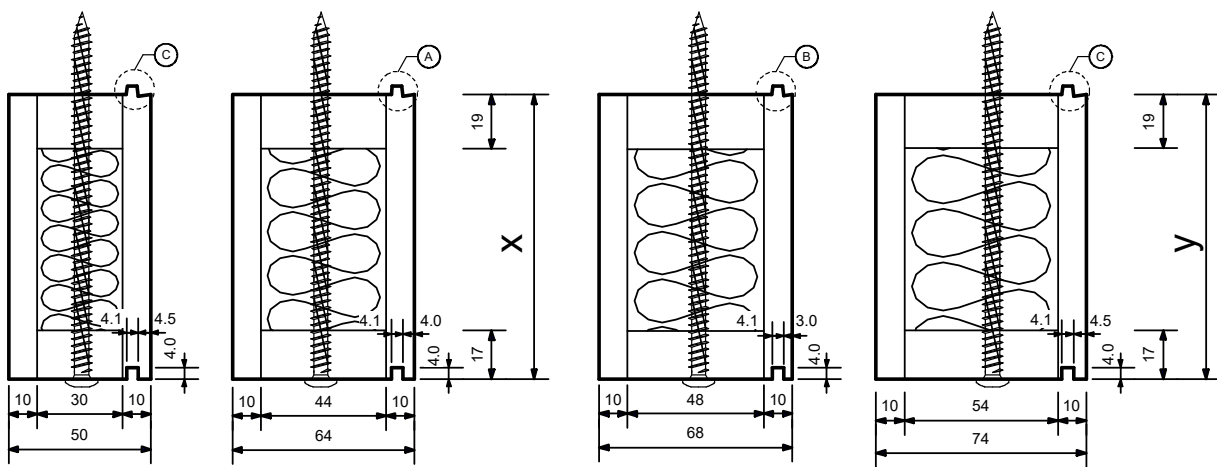
- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

If carried out properly, sealing on the inside and outside between the blaugelb Plinth Thermal Insulation Profile IHP/EPS at the top and the elements at the bottom ensures lasting impermeability provided that sealing is performed in accordance with DIN 18531.

Cross-section of a blaugelb Plinth Thermal Insulation Profile IHP/EPS:

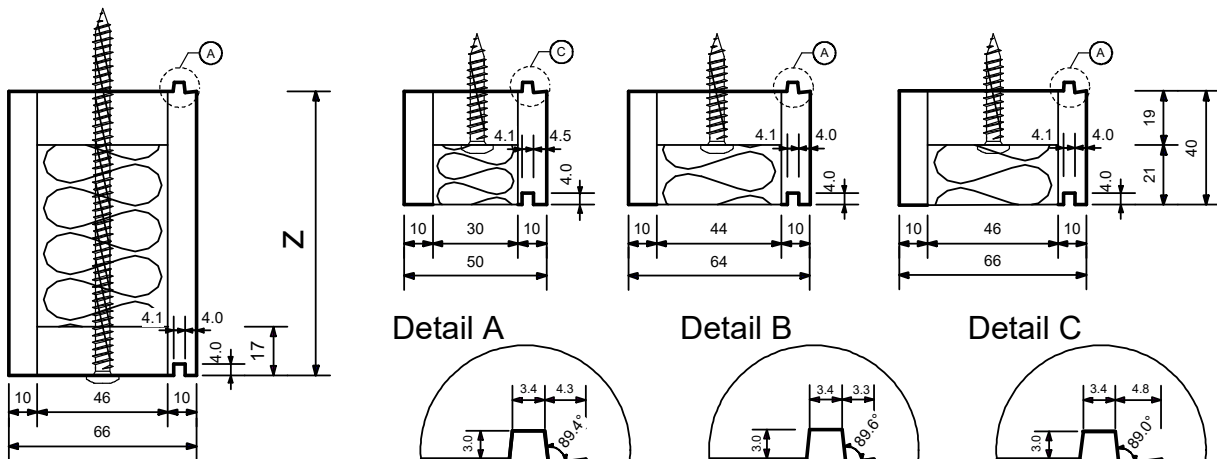


ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile IHP/EPS

x: 100/130/140/150/180

y: 100/130/150/180



z: 100/140

Detail A

Detail B

Detail C

Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x50 mm*	1 piece	9066449
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x50 mm	1 piece	9066450
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x50 mm	1 piece	9066451
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x50 mm	1 piece	9066452
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x50 mm	1 piece	9066453
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x50 mm	1 piece	9066554
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x64 mm*	1 piece	9066447
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x64 mm	1 piece	9052719
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x64 mm	1 piece	9052720
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x64 mm	1 piece	9066448
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x64 mm	1 piece	9052721
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x64 mm	1 piece	9052722
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x40x66 mm	1 piece	9072828

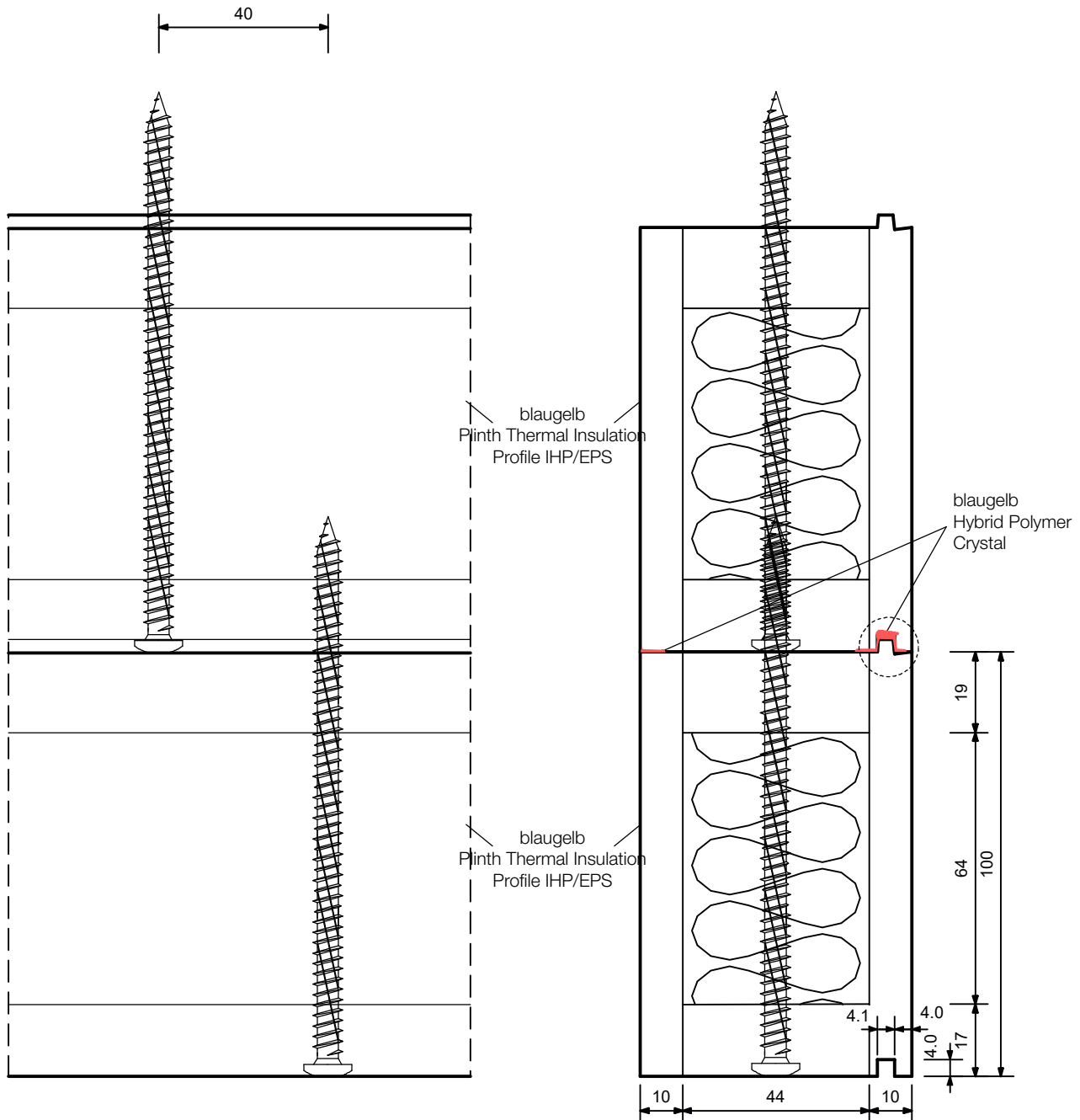
Product name	PU	Item no.
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x66 mm	1 piece	9072829
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x140x66 mm	1 piece	9072830
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x68 mm	1 piece	9052723
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x68 mm	1 piece	9052764
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x68 mm	1 piece	9052765
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x68 mm	1 piece	9052766
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x100x74 mm	1 piece	9052767
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x130x74 mm	1 piece	9052768
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x150x74 mm	1 piece	9052769
blaugelb Plinth Thermal Insulation Profile IHP/EPS 2988x180x74 mm	1 piece	9052770
Twist drill DIN 1869 HSS-G extra long D = 6 mm, L = 330 mm	1 piece	0417239

*without base bar

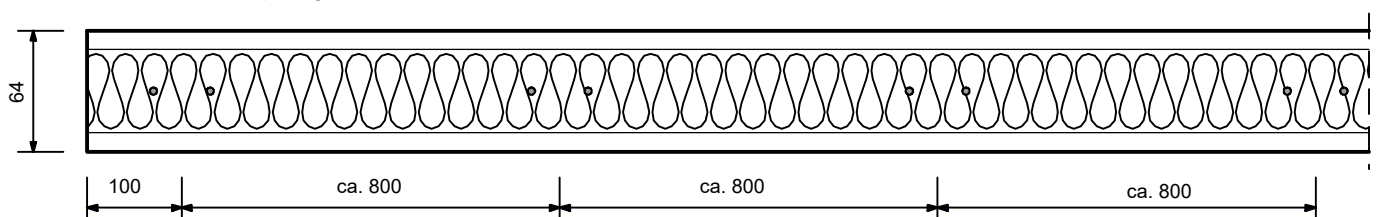
The blaugelb Frame screw Fix FK-T30 is intentionally flush with the head on the profile. If this is not desired for construction reasons, the screw can also be completely countersunk.

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

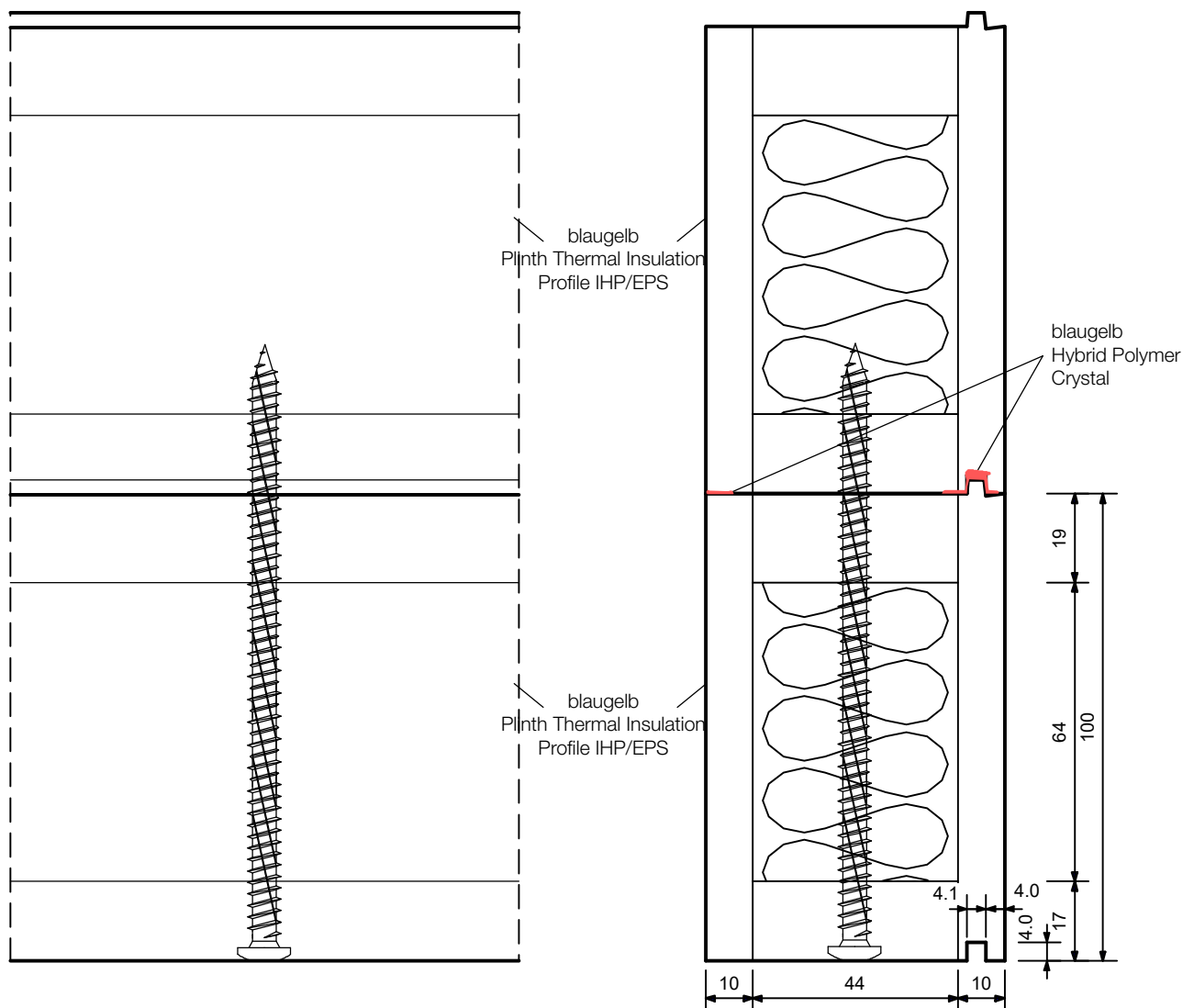
3.2.0.3. Double application with window frames and lifting/sliding doors



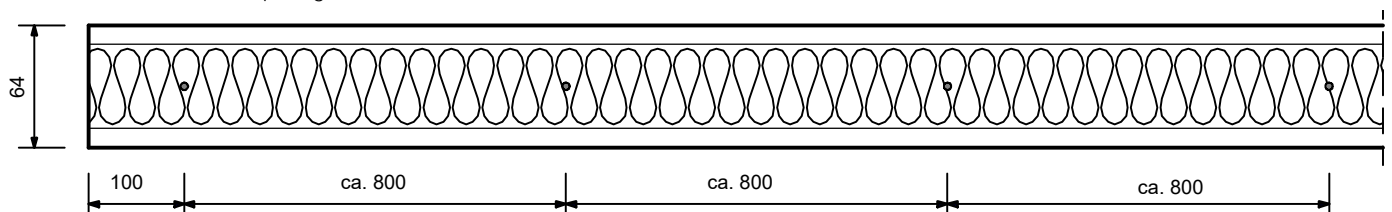
Schematic screw spacings



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

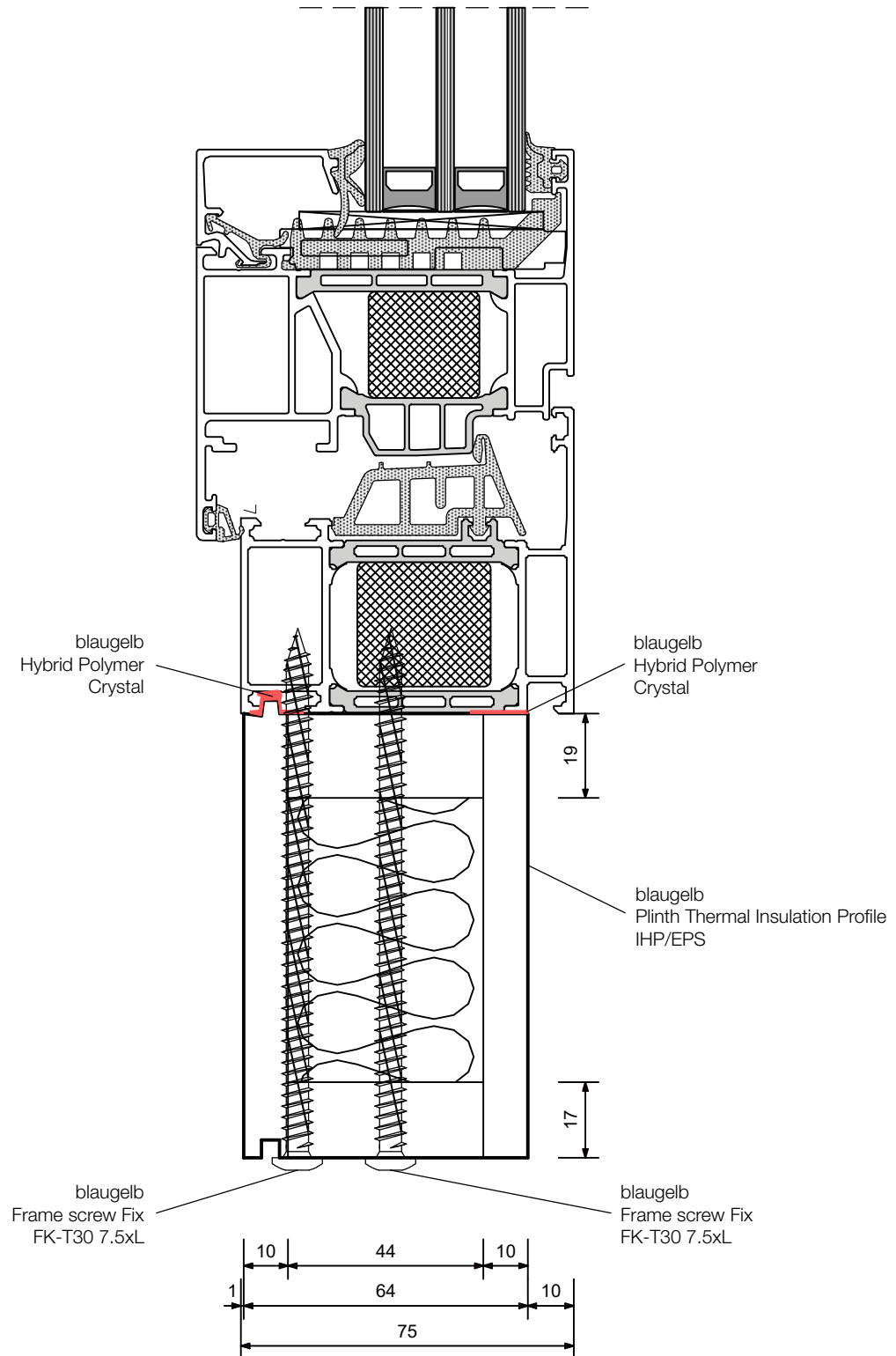
3.2.0.4. Double application with window frames and lifting/sliding doors, threshold

Schematic screw spacings

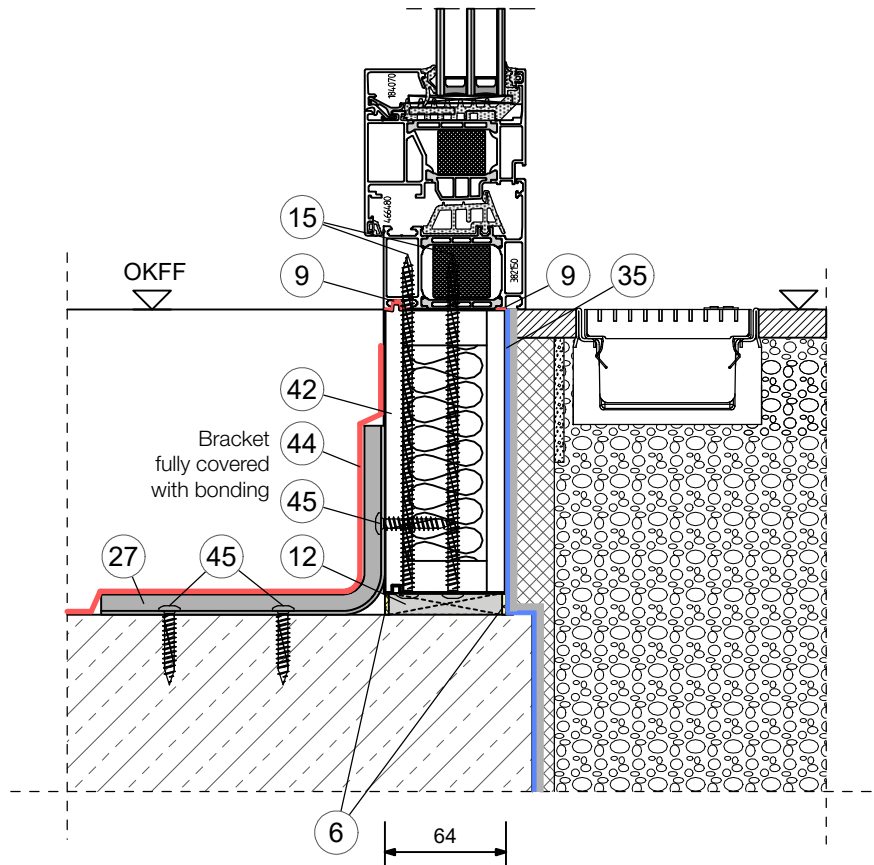


ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.1. Window frame installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

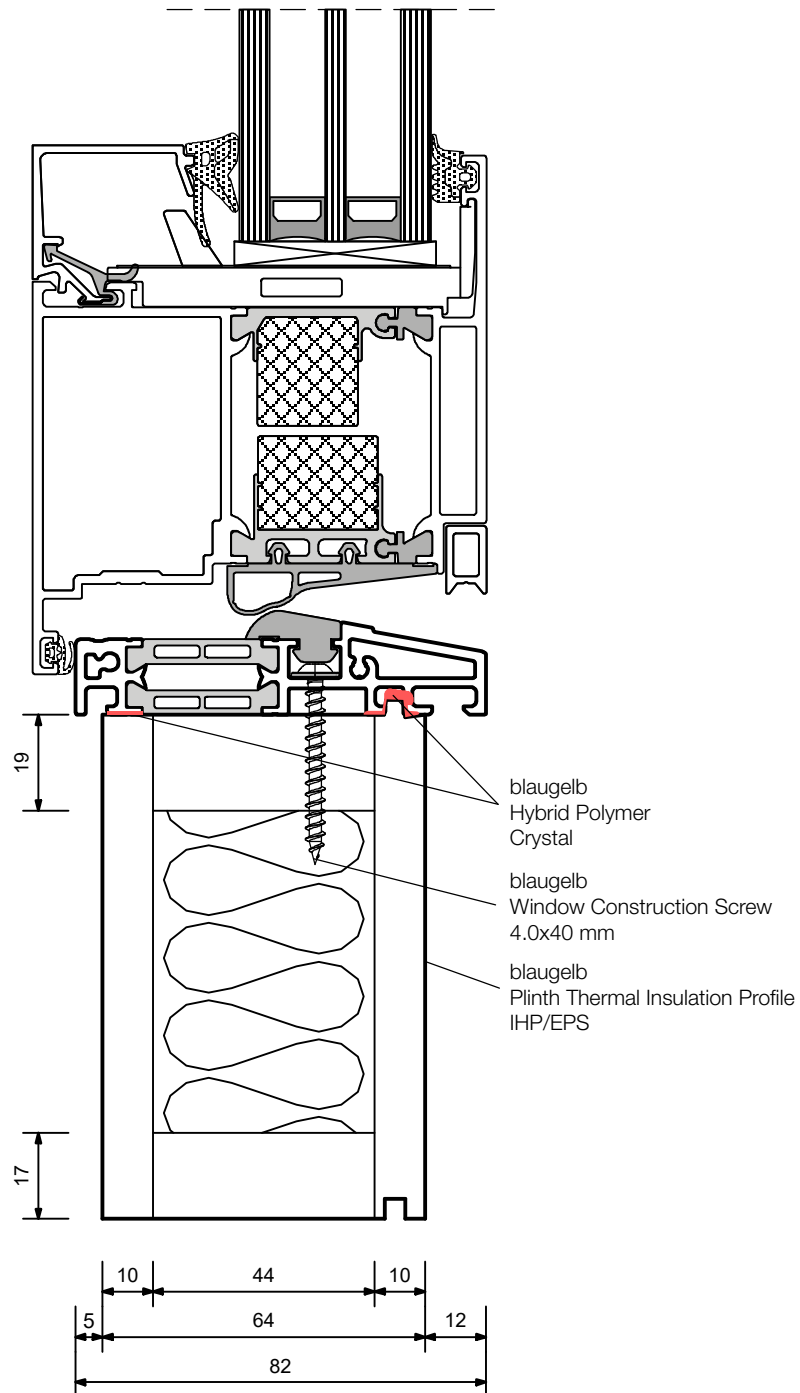
3.2.1. Window frame installation situation

- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Assembly bracket 156.5x100 mm

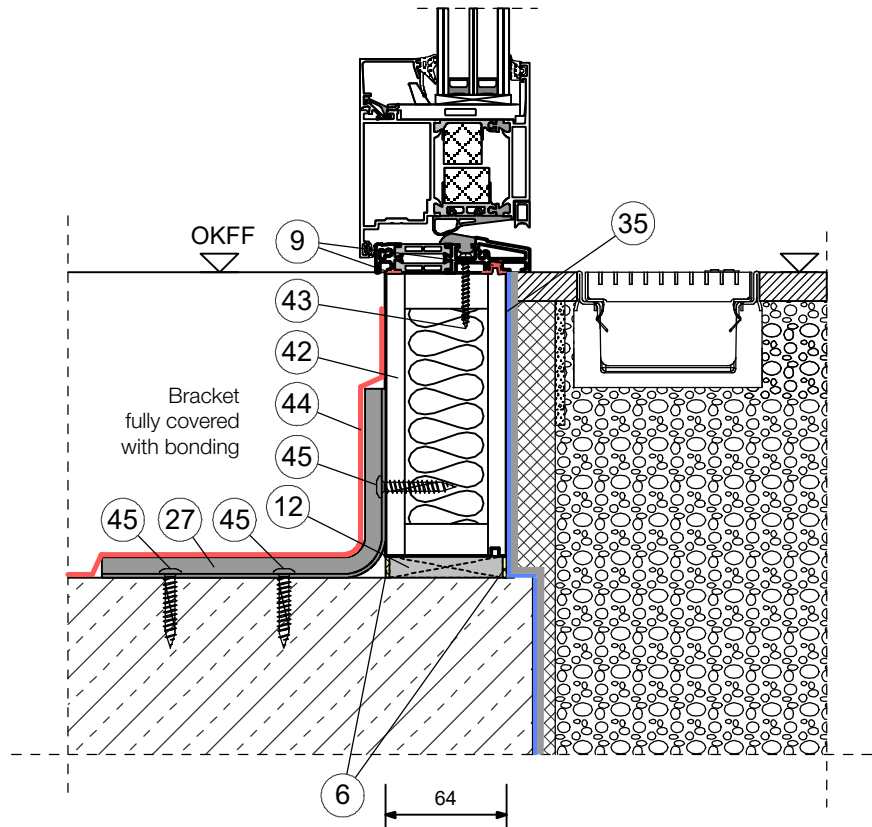
- ㉓ | Waterproofing according to DIN 18533
- ㉔ | blaugelb Plinth Thermal Insulation Profile IHP/EPS
- ㉖ | blaugelb Foil Duo^{SL} 1050 Power One
- ㉗ | blaugelb Frame screw Fix FK-T30 7.5x42 mm

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.2. Threshold installation situation



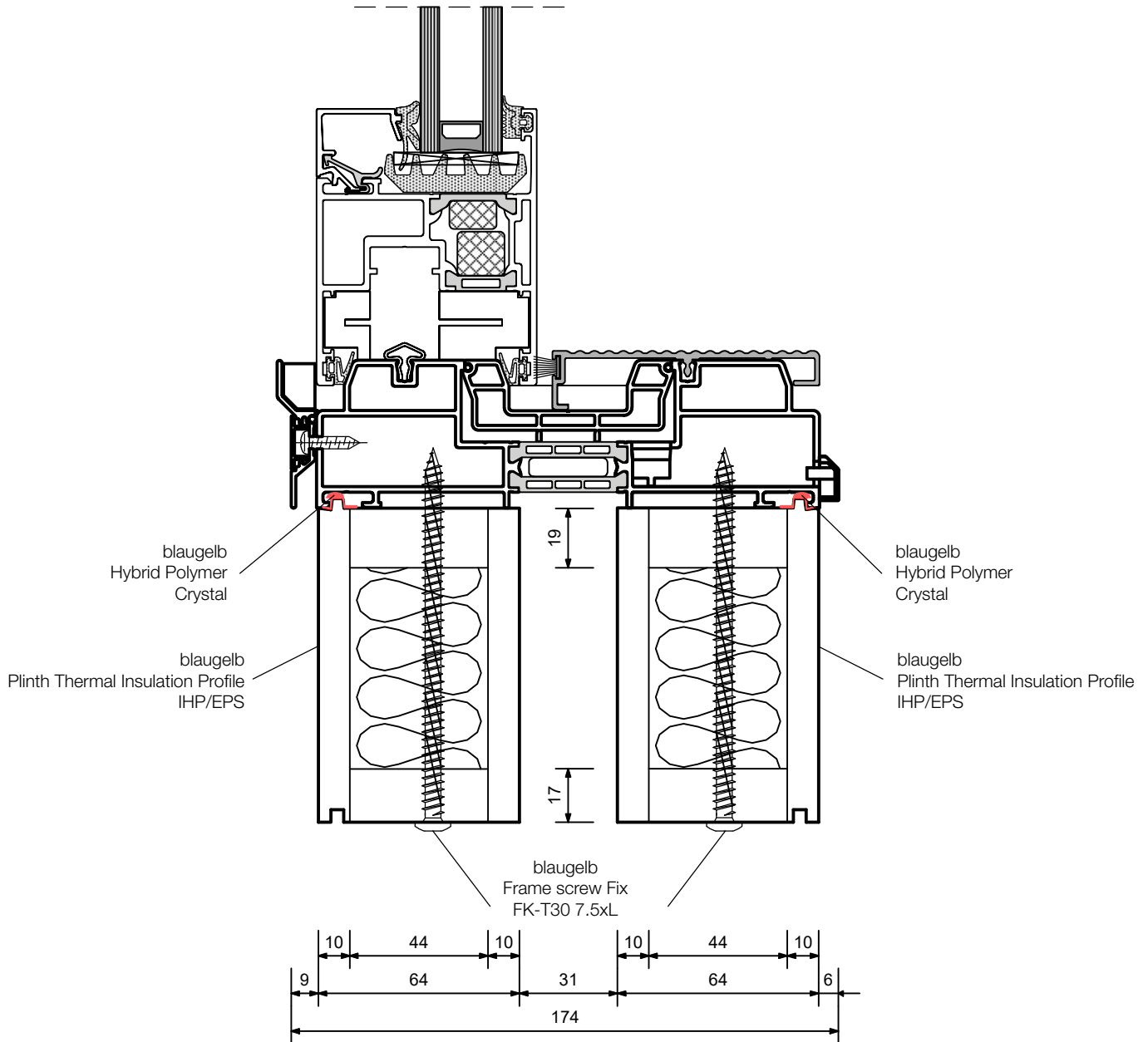
ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.2. Threshold installation situation

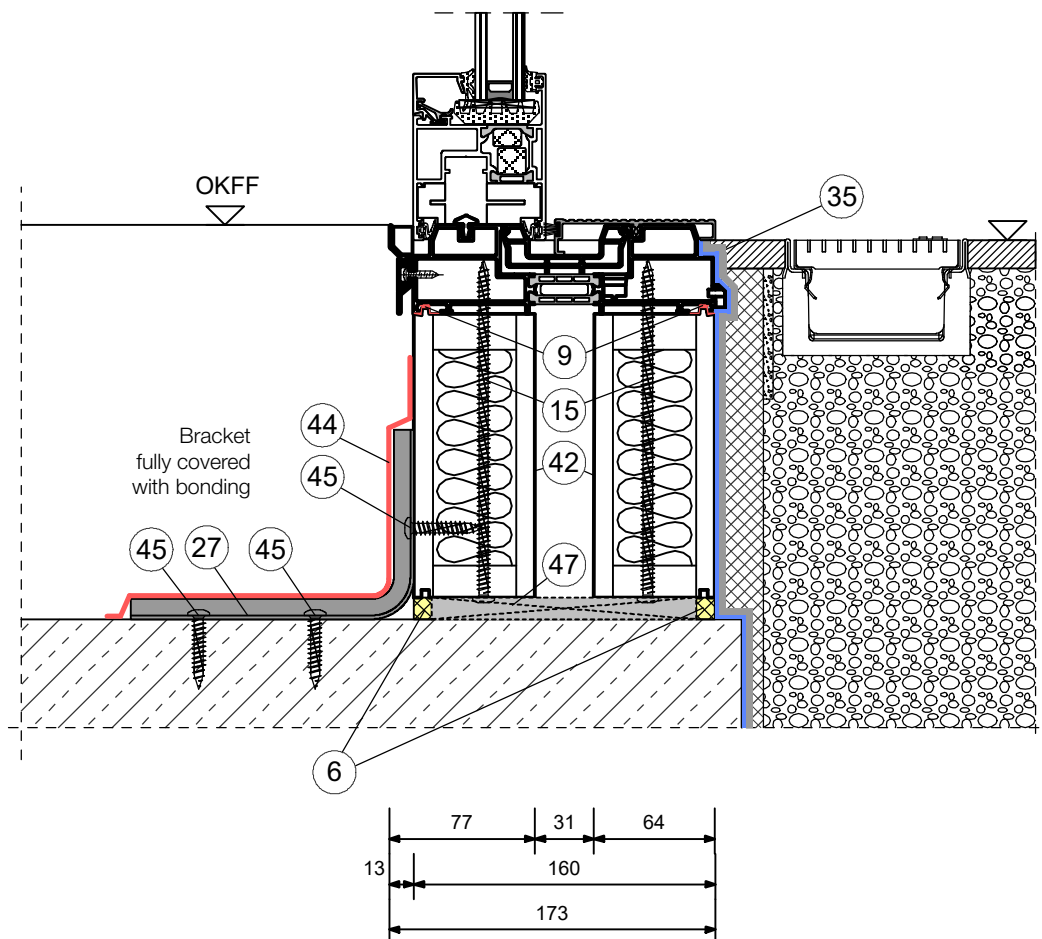
- | | | | |
|------|--|------|--|
| (6) | blaugelb 1C Gun Foam Premium Allseason XXL Class E | (42) | blaugelb Plinth Thermal Insulation Profile IHP/EPS |
| (9) | blaugelb Hybrid Polymer Crystal | (43) | blaugelb Window Construction Screw 4.0x40 mm |
| (12) | blaugelb Spacer Block | (44) | blaugelb Foil Duo ^{SL} 1050 Power One |
| (27) | blaugelb Assembly bracket 156.5x100 mm | (45) | blaugelb Frame screw Fix FK-T30 7.5x42 mm |
| (35) | Waterproofing according to DIN 18533 | | |

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.3. Lifting/sliding door installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile IHP/EPS

3.2.3. Lifting/sliding door installation situation

- | | | | |
|----|--|----|--|
| 6 | blaugelb 1C Gun Foam Premium Allseason XXL Class E | 42 | blaugelb Plinth Thermal Insulation Profile IHP/EPS |
| 9 | blaugelb Hybrid Polymer Crystal | 44 | blaugelb Foil Duo ^{SL1050} Power One |
| 15 | blaugelb Frame screw Fix FK-T30 7.5xL | 45 | blaugelb Frame screw Fix FK-T30 7.5x42 mm |
| 27 | blaugelb Assembly bracket 156.5x100 mm | 47 | blaugelb Shim Block HST 170 mm |
| 35 | Waterproofing according to DIN 18533 | | |

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.0.1. Product features

The blaugelb Plinth Thermal Insulation Profile EPS is made from a high-density EPS (expanded polystyrene) and offers the best possible heat and moisture protection on front doors and balcony doors made from wood, wood/aluminium, aluminium and plastic. The blaugelb Plinth Thermal Insulation Profile EPS is sturdy, durable and is exceptionally quick and easy to fit. The blaugelb Plinth Thermal Insulation Profile EPS provides thermal insulation and reduces the scope of conventional plastic profiles to form thermal bridges. It is dimensionally stable, 100 % free of HCFCs, HFCs and HBCDs. The blaugelb Plinth Thermal Insulation Profile EPS was specially developed for fitting as a substructure thermal insulation profile under thresholds.



By virtue of the innovative dovetail joint, the blaugelb Plinth Thermal Insulation Profile EPS can be positively interlocked, to create any desired length. The dovetail joint reduces the amount of waste, possibly even avoiding waste altogether, while the 1,175 mm length of the individual profiles is ideal for transport and storage (Europallet). Thanks to its low weight and compact dimensions, the blaugelb Plinth Thermal Insulation Profile EPS is unbeatably quick and straightforward to process.

With the tongue and groove joint, the two blaugelb Plinth Thermal Insulation Profiles EPS which are to be joined have a groove on one edge and a tongue on the other edge and can be coupled in height one under the other.

Product benefits:

Benefits of plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile EPS:

- Effective insulation offering high potential savings
- Plinth thermal insulation permanently eliminates energy weak points on components installed on floor slabs and enhances indoor comfort
- Plinth thermal insulation using the blaugelb Plinth Thermal Insulation Profile EPS prevents damage caused by moisture and mould

Benefits of dovetail joints:

- Quick and easy to fit
- Mobile - for workshop or building site use
- No metal fasteners required
- Can be infinitely extended in length and coupled in height
- No waste

Technical data:

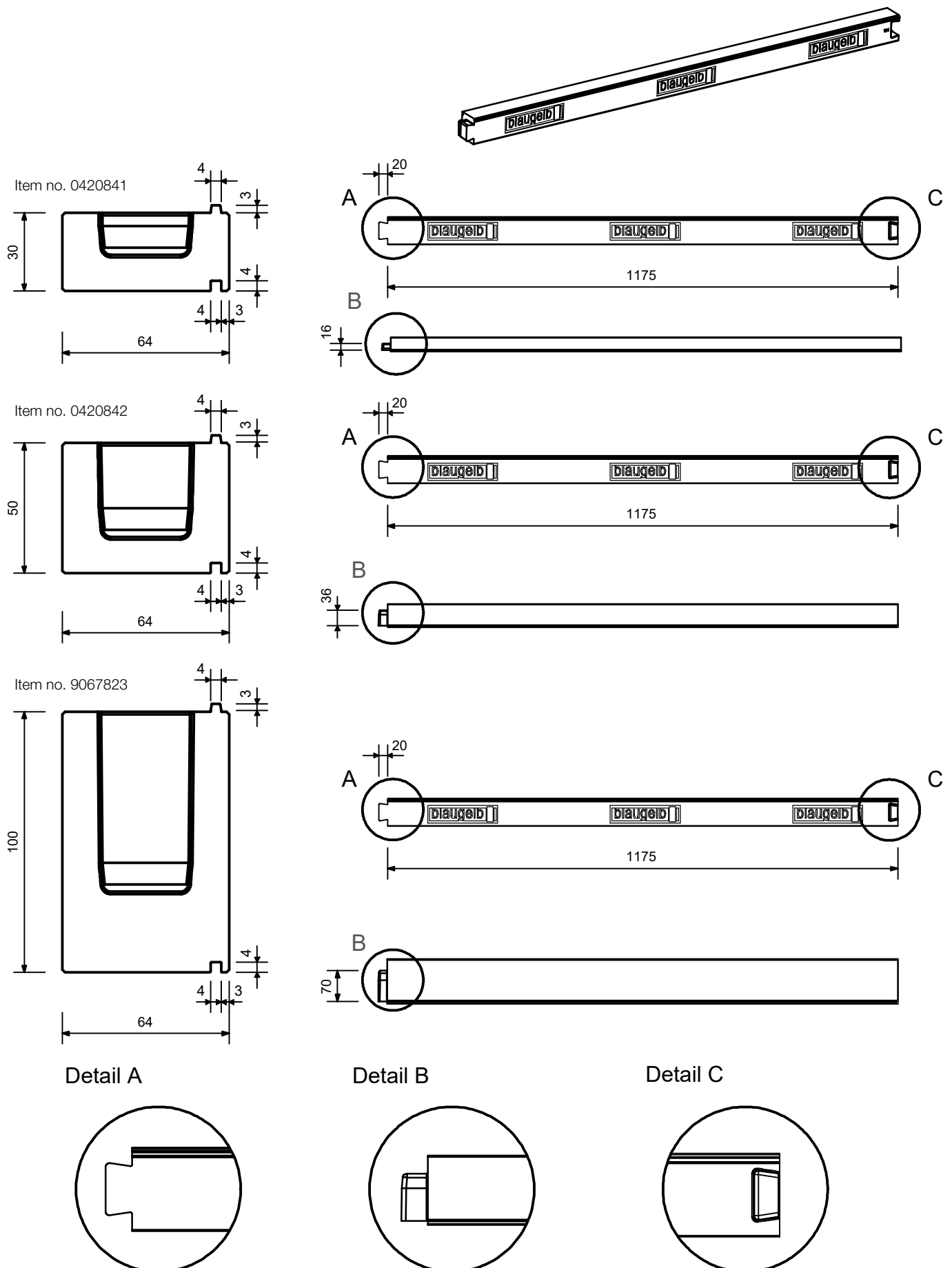
Material:	High-density EPS (expanded polystyrene), high ductility
Colour:	Grey
Compressive load bearing capacity at max. total deformation of 2 %:	1,260 kg/dm ²
Compressive load bearing capacity at 60 x 40 mm: (blaugelb Spacer Block)	5,800 N
Compressive load bearing capacity at 210 x 53 mm: (blaugelb Shim Block HST)	15,510 N
Fire behaviour: DIN 4102-1	Building material class B1 (difficult to ignite) Class E (DIN EN 13501-1)
Thermal conductivity nominal value λ_D : DIN EN 12667	$\lambda = 0.040 \text{ W/m}^2\text{K}$
Water vapour diffusion resistance: DIN EN ISO 12572	380 – 550 μ
Air permeability: EN 12207	Class 4
Bending strength: DIN EN 12089	$\geq 650 \text{ kPa}$
Compression stress (10 %) compression: DIN EN 13163:2015-04	$\geq 2,500 \text{ kPa}$
Compression stress (2 %) compression: DIN EN 13163:2015-04	$\geq 1,100 \text{ kPa}$
Shear strength: DIN EN ISO 14130	0.217 N/mm ²
Dimensional strength: DIN ISO 75-1	Short-term up to +95 °C Long-term up to +85 °C
Dimensional stability: DIN EN 13163:2015-04	Very high, including outdoor weathering
Water absorption after 28 days under water: DIN 12087	$\leq 1.5 \text{ vol. } \%$
Screw withdrawal values: blaugelb Frame screw Fix FK-T30 7.5x42 mm sfs window sill screw 4.5x35 mm	$F_{RK, AZ} 1,200 \text{ N}$ $F_{RK, AZ} 510 \text{ N}$
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

If carried out properly according to DIN 18195-4 and based on DIN 68800-2, fig. A.11-14, sealing offers sufficient protection against moisture, particularly for:

- rising moisture from below (floor slab)
- moisture stresses from the outside (driving rain)
- moisture stresses from the inside (condensate, diffusion tightness)
- lateral moisture stresses from the brickwork

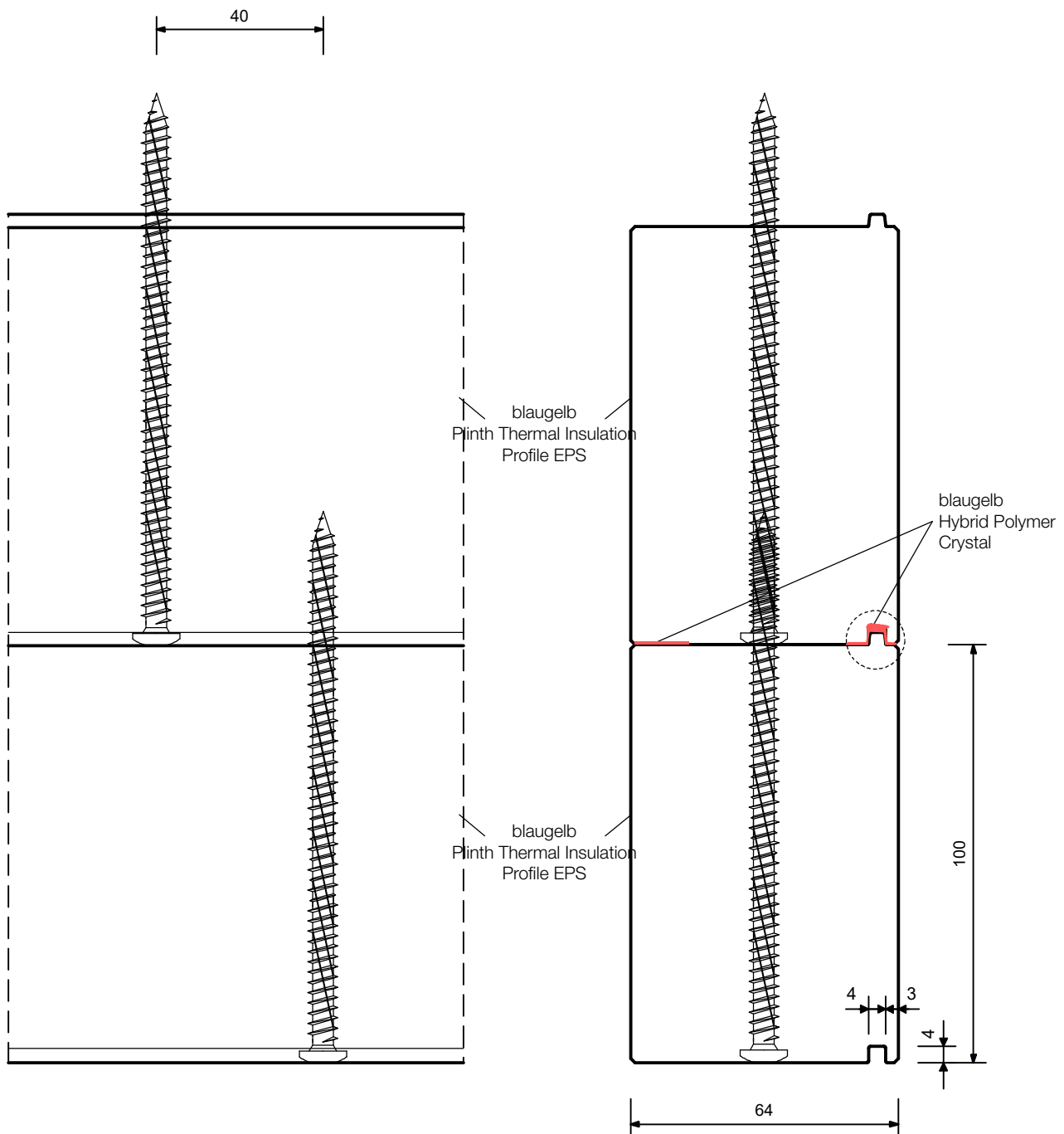
In consultation with the parties responsible for structural waterproofing, ensure that solvent-free sealing sheets which do not promote burning are used. The blaugelb Plinth Thermal Insulation Profile EPS is sealed against the frame of the structural element with a pasty polymer sealant blaugelb Hybrid Polymer Power Fix and secured mechanically with self-tapping screws.

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

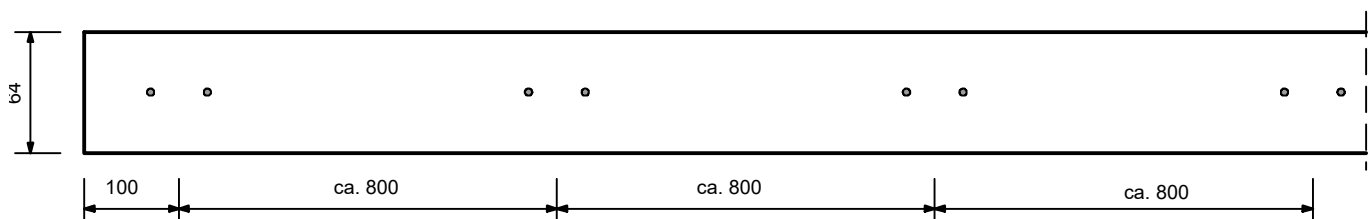
3.3.0.2. Overview of the profiles – blaugelb Plinth Thermal Insulation Profile EPS

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

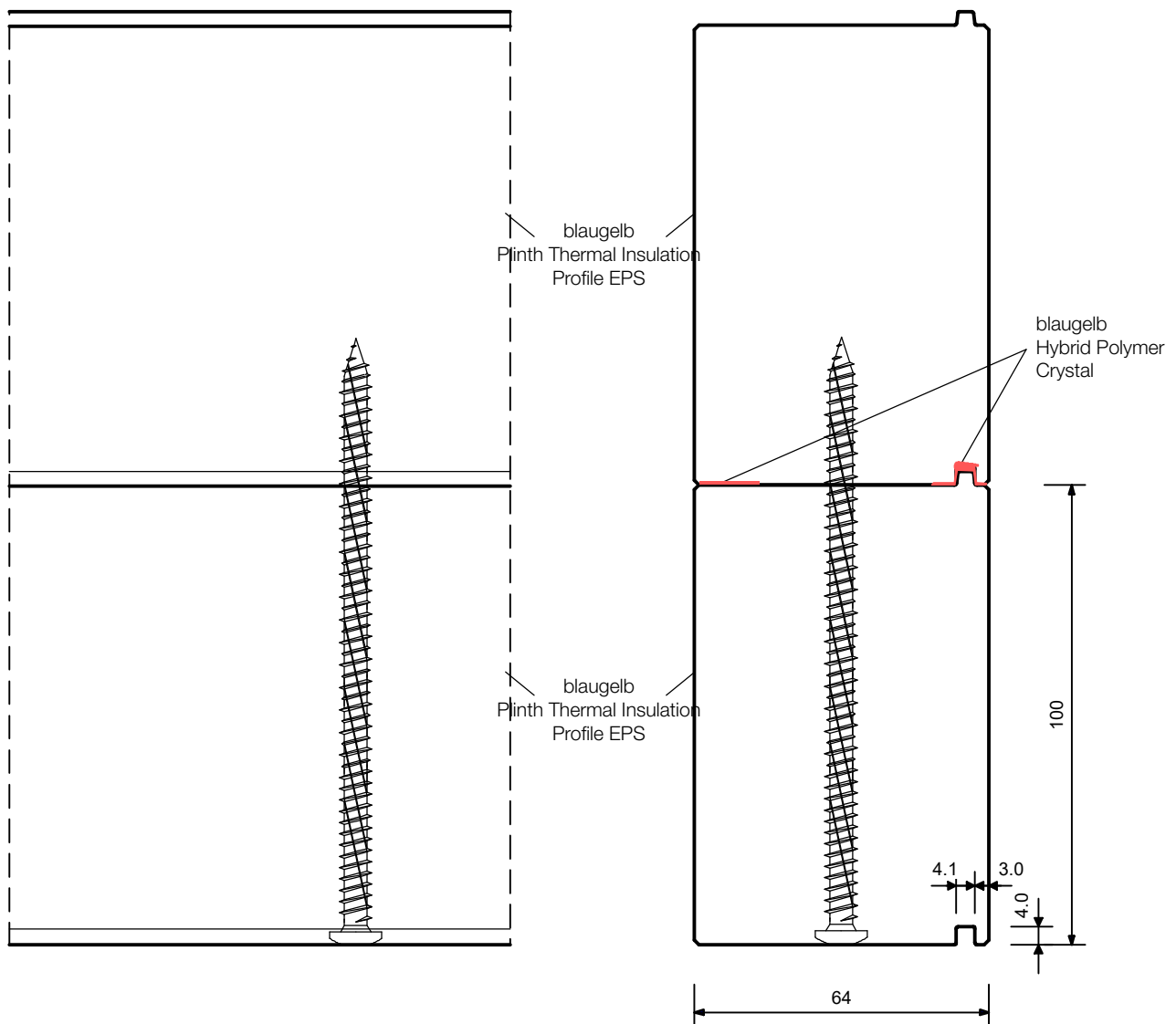
3.3.0.3. Double application with window frames and lifting/sliding doors



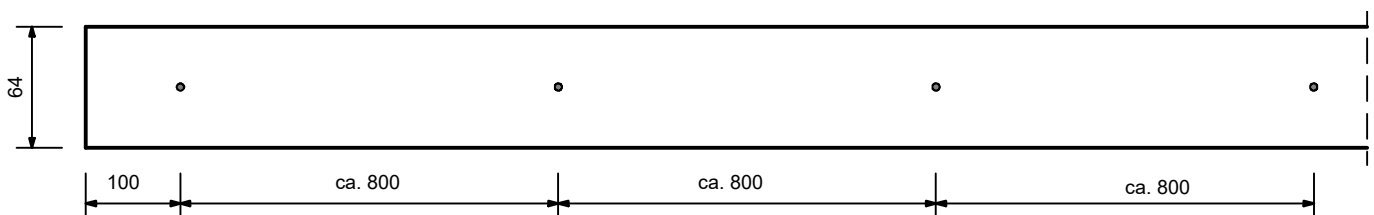
Schematic screw spacings



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

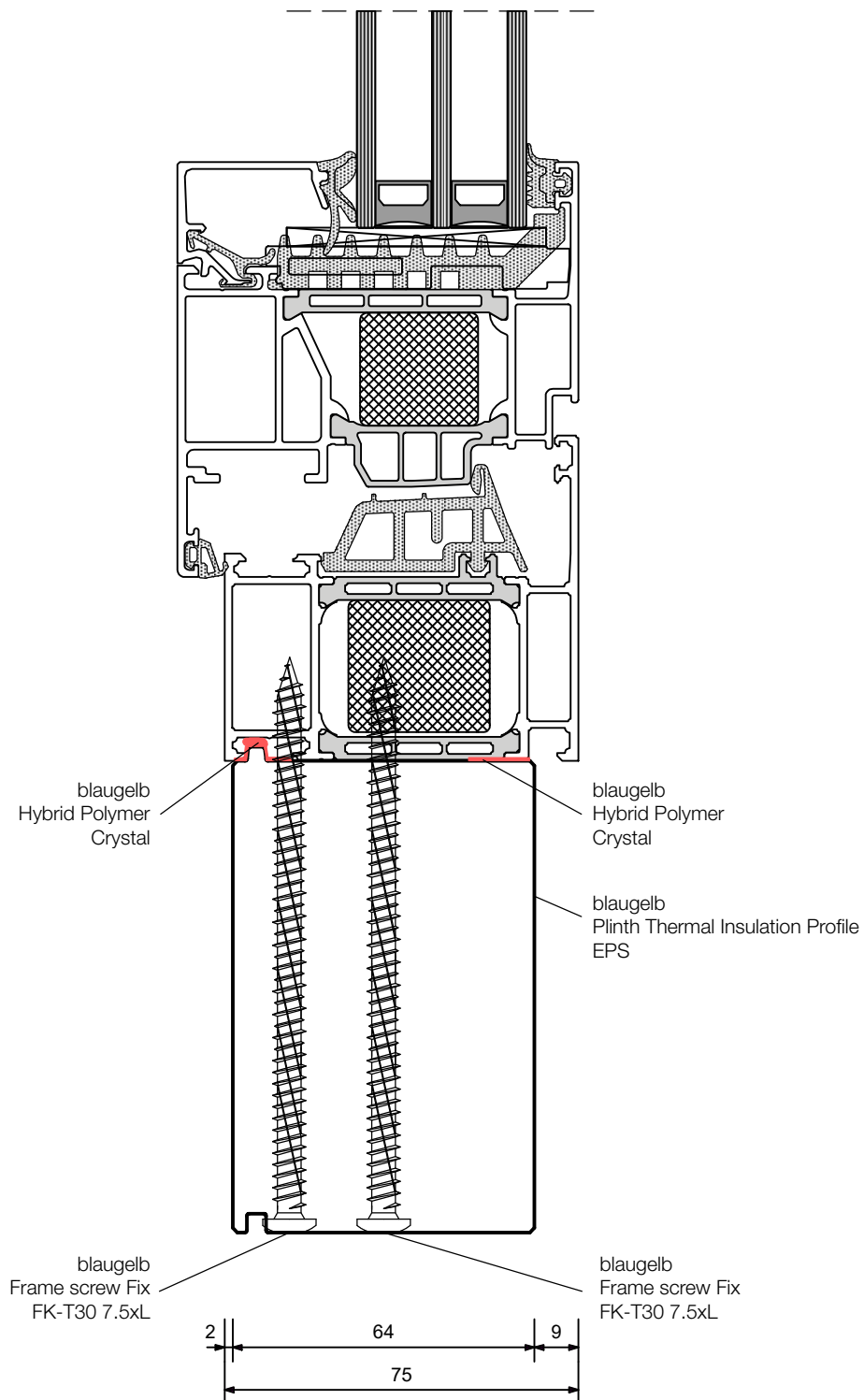
3.3.0.4. Double application with threshold

Schematic screw spacings



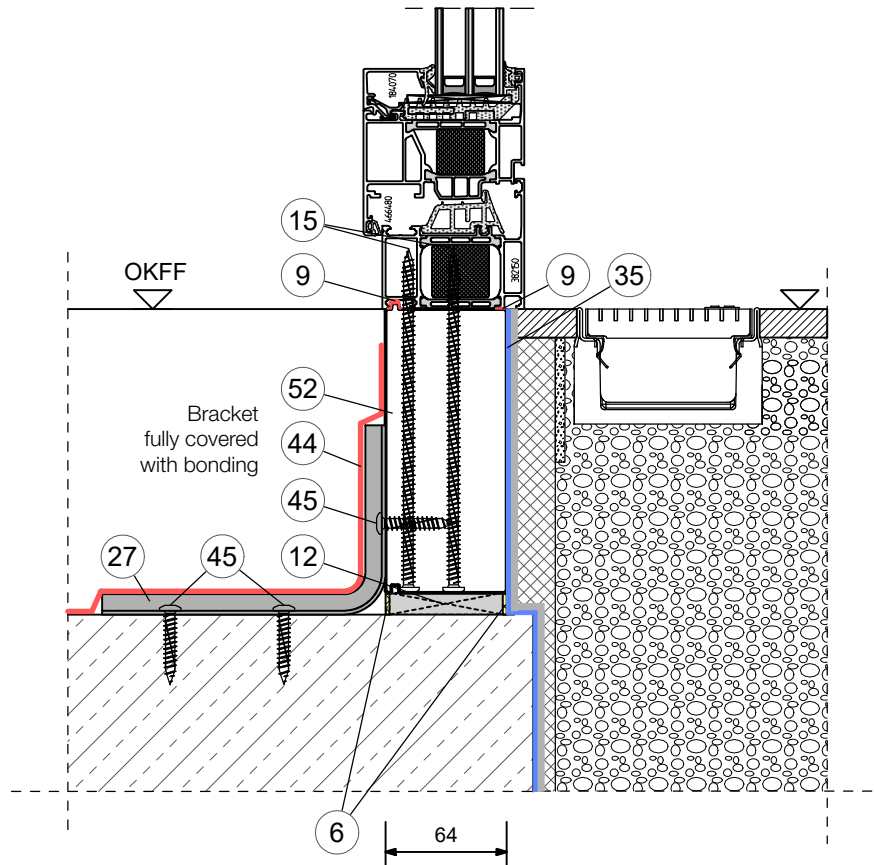
ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.1. Window frame installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.1. Window frame installation situation

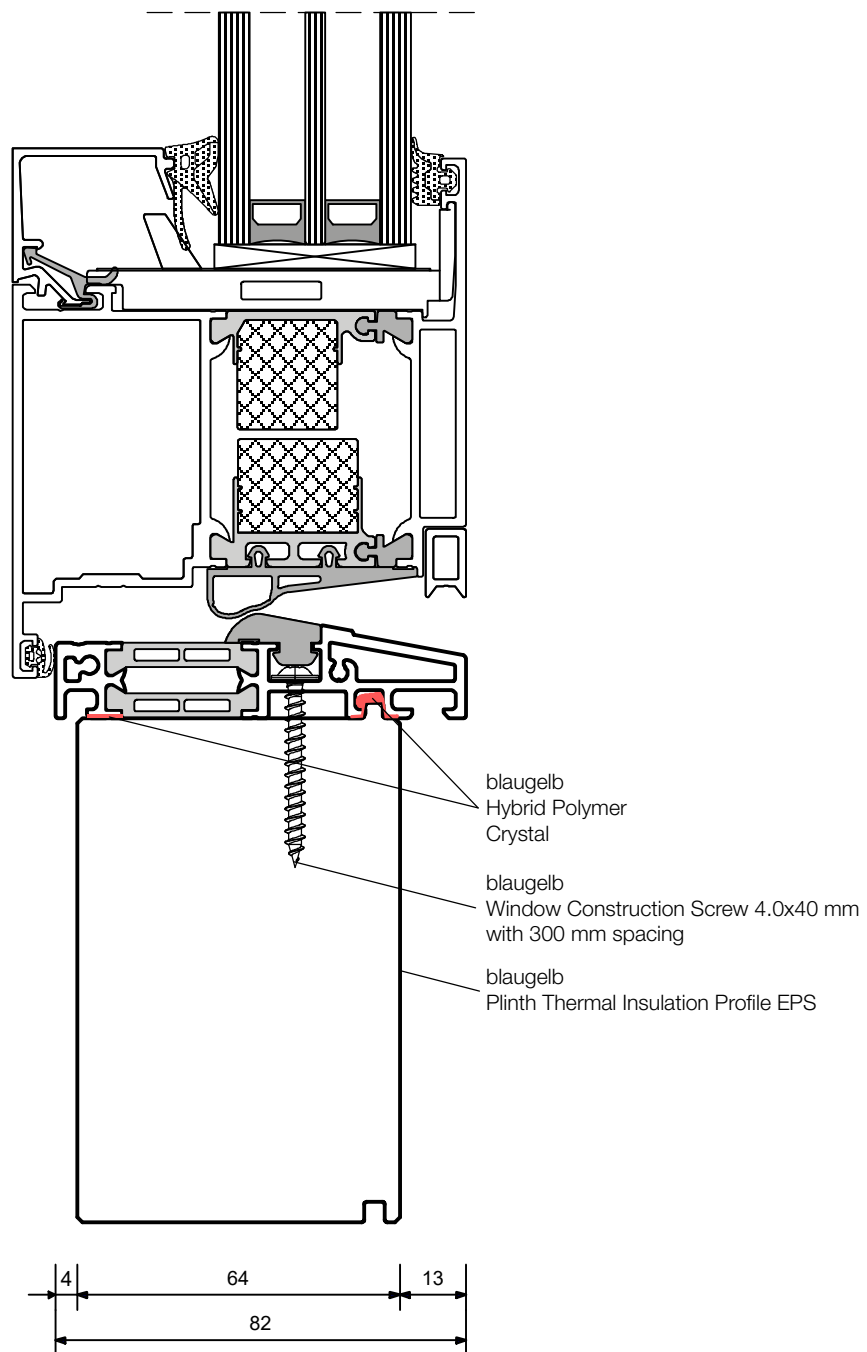


- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑫ | blaugelb Spacer Block
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Assembly bracket 156.5x100 mm

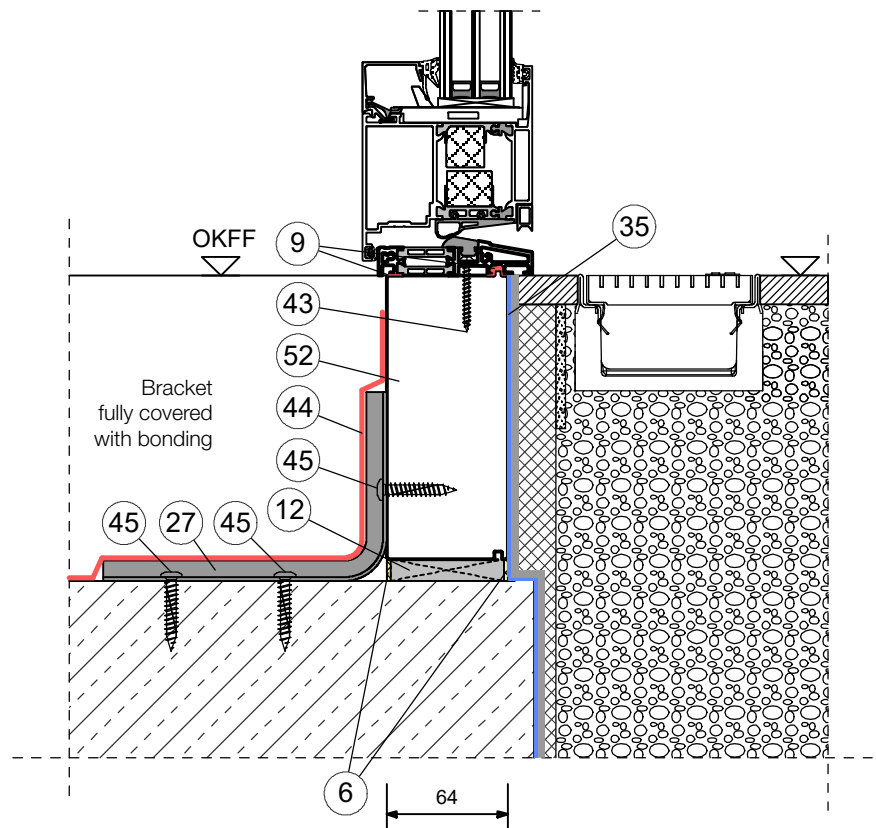
- ㉓ | Waterproofing according to DIN 18533
- ㉖ | blaugelb Foil Duo^{SL1050} Power One
- ㉗ | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- ㉙ | blaugelb Plinth Thermal Insulation Profile EPS

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.2. Threshold installation situation



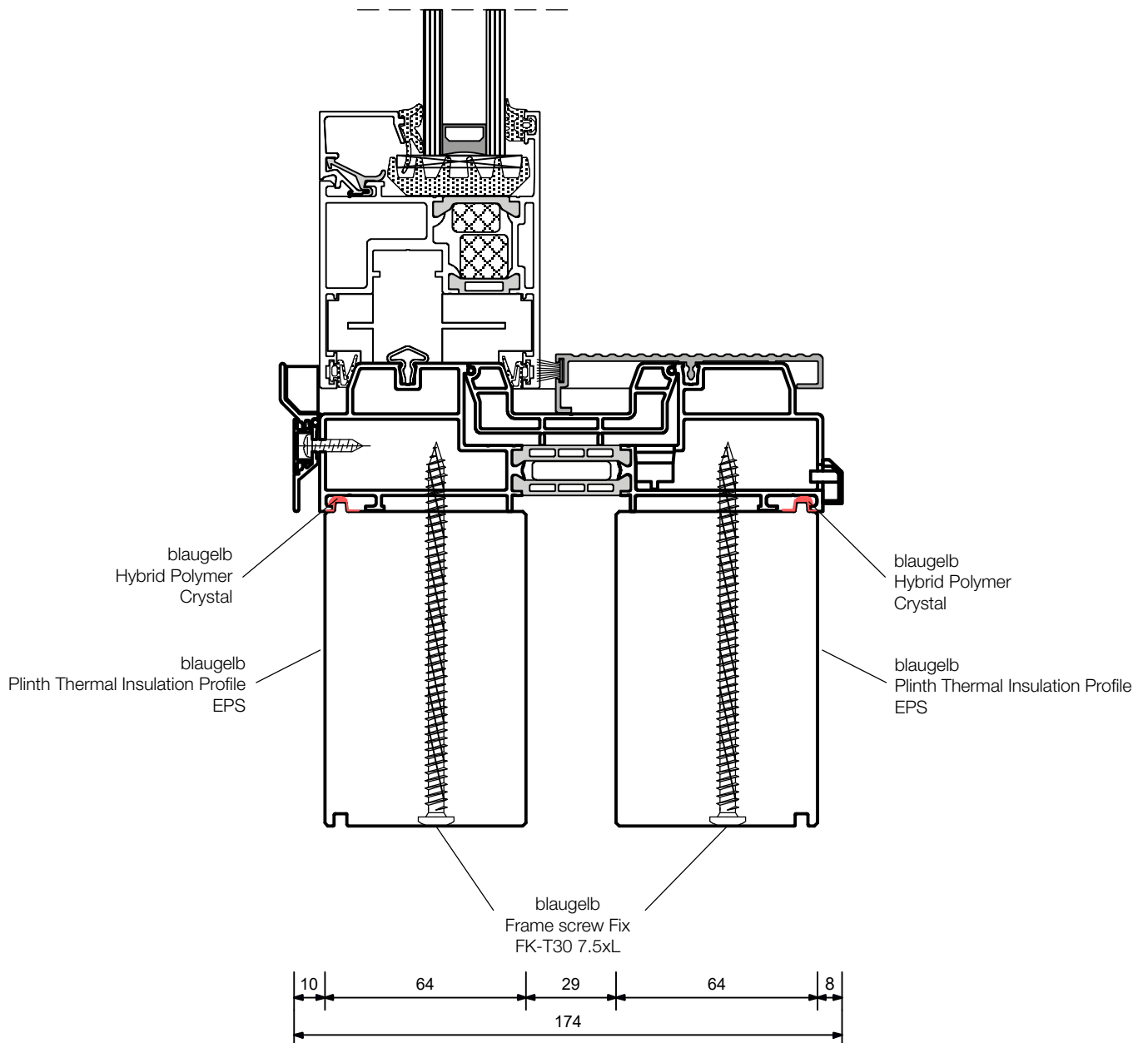
ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.2. Threshold installation situation

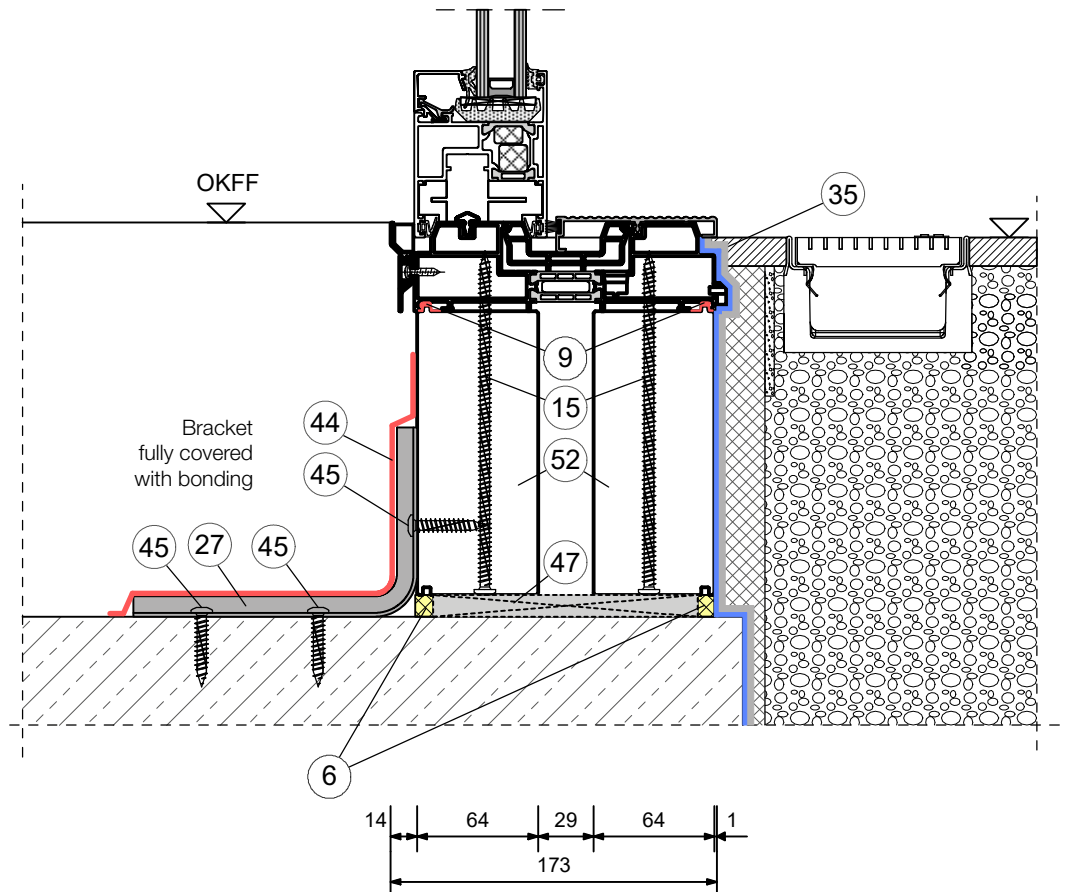
- | | |
|---|---|
| <p>⑥ blaugelb 1C Gun Foam Premium Allseason XXL Class E</p> <p>⑨ blaugelb Hybrid Polymer Crystal</p> <p>⑫ blaugelb Spacer Block</p> <p>⑳ blaugelb Assembly bracket 156.5x100 mm</p> <p>㉓ Waterproofing according to DIN 18533</p> | <p>㉔ blaugelb Window Construction Screw 4.0x40 mm</p> <p>㉕ blaugelb Foil DuoSL¹⁰⁵⁰ Power One</p> <p>㉖ blaugelb Frame screw Fix FK-T30 7.5x42 mm</p> <p>㉗ blaugelb Plinth Thermal Insulation Profile EPS</p> |
|---|---|

ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.3. Lifting/sliding door installation situation



ALUMINIUM PROCESSOR – blaugelb Plinth Thermal Insulation Profile EPS

3.3.3. Lifting/sliding door installation situation

- ⑥ | blaugelb 1C Gun Foam Premium Allseason XXL Class E
- ⑨ | blaugelb Hybrid Polymer Crystal
- ⑮ | blaugelb Frame screw Fix FK-T30 7.5xL
- ⑳ | blaugelb Assembly bracket 156.5x100 mm
- ㉓ | Waterproofing according to DIN 18533

- ㉔ | blaugelb Foil Duo^{SL}1050 Power One
- ㉕ | blaugelb Frame screw Fix FK-T30 7.5x42 mm
- ㉖ | blaugelb Shim Blocks HST 170 mm
- ㉗ | blaugelb Plinth Thermal Insulation Profile EPS

OUR LOCATIONS – MEESENBURG NEAR YOU



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