



BEMO INDUSTRIAL & COMMERCIAL BUILDINGS



COST-EFFICIENT
AND SUSTAINABLE
BUILDING SHELLS



SUSTAINABLE COMMERCIAL BUILDINGS – COST-EFFICIENT AND QUICK IMPLEMENTATION WITH BEMO



Whether a new build or a renovation – when it comes to commercial buildings, a cost-efficient and quick implementation is essential. Roofs and façades must be long-lasting and sustainable and they must also represent the company. Roofs and façades from BEMO meet all these criteria.

With BEMO, you have a competent partner by your side from the planning phase. The economic feasibility and cost-efficiency of the project are taken into consideration from the start. This way, you get a sustainable, durable and recyclable building shell.

Often there is little time left for the implementation and construction. This is where the quick and simple installation of BEMO systems comes into play.

Long profile lengths without traverse joints and penetration-free roof structures solutions, such as our PV systems for example, give your roof the necessary long-lasting safety so that you can focus on the day-to-day functioning of your company.

WHY BEMO?

- ECONOMIC FEASIBILITY AND COST-EFFICIENCY
- SUPPORT IN PLANNING
- SUSTAINABLE, DURABLE AND RECYCLABLE SYSTEMS
- SIMPLE AND QUICK INSTALLATION
- VERY LARGE PROFILE LENGTHS WITHOUT TRAVERSE JOINTS POSSIBLE
- NON-PENETRATING ROOF ACCESSORIES



Company Building in Aachen // Germany

BEMO COMMERCIAL BUILDINGS – COST-EFFICIENT, QUICK AND VISUALLY APPEALING



Photo: Melanie Bauer/vor-ort-foto.de

COMPANY BUILDINGS, BIEBESHEIM

Product: PRIMO Clip-on façades, steel
Special features: Quick and simple installation
Combination of various different grid dimensions



WAREHOUSES IN SANT'ORSOLA, ITALY

Product: BEMO Aluminium standing seam N65-500
Special features: Various different roof accessories that are adapted to the technical requirements of the building
Non-penetrating installation of a photovoltaic system with BEMO-AKKORD

BEMO COMMERCIAL BUILDINGS – COST-EFFICIENT, QUICK AND VISUALLY APPEALING



Photo: SkyImage.de/vor-ort-foto.de

Photo: Mili Martinez-Fiener/vor-ort-foto.de



COMPANY BUILDINGS, GAMMERTINGEN

Product: BEMO Aluminium standing seam N65-400, partly conical
 Special features: Roof and façades form a single unit
 Colourful accents



CAR DEALERSHIP IN VIENNA, AUSTRIA

Product: BEMO-BOND INVISIO
 Special features: Invisible fastening of the composite panels
 Large format panels, 1 400 mm x 5 000 mm

THE LONG-LASTING AND PENETRATION-FREE STANDING SEAM ROOF – FLOWING TRANSITIONS FROM THE ROOF TO THE FAÇADE



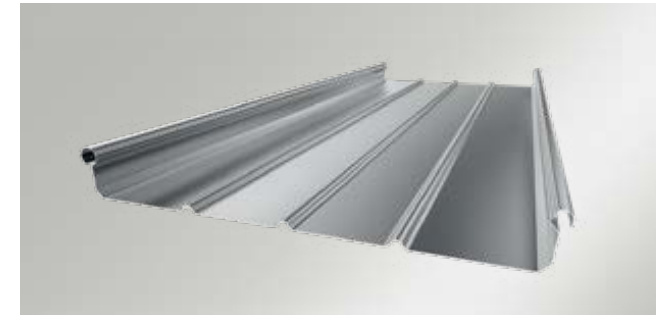
No other roof system fulfils as many different requirements as a multilayer roof system with standing seam profiles. The roofs are self-supporting and can be installed without screws that penetrate the water-draining part of the structure. This means that you get a durable and sustainable roof, ideal for industrial and commercial buildings.

The choice of surfaces, materials and colours allows for maximum flexibility when it comes to the design.

We can also create flowing building forms with the rounded standing seam tracks. The rounding can either

be concave, convex or concave-convex and can be done on tracks with even the smallest radii.

You can also easily attach solar power modules or other systems without having to drill through the roof thanks to the BEMO AKKORD rails. The BEMO rail system is made from aluminium and is fastened to the closed edge of the standing seam tracks with a folding machine. With the exception of the anti-slip guard that needs to be attached in the eaves area, no screws or other fastening that penetrates the roof cladding are required. This protects the roof, helps to prevent corrosion from boring and completely excludes the risk of leaks.



PV modules can be mounted on BEMO standing seam roofs without any drilling through with the BEMO-AKKORD rails.

 Company Buildings in Rijeka // Croatia



FACT SHEET

- PENETRATION-FREE ROOF CLADDING
- WITH ROOF SLOPES FROM 1.5 DEGREES
- HIGH LOAD-BEARING CAPACITY AND LARGE SPANS OF UP TO 2.5 M
- LONG PROFILE LENGTHS WITHOUT TRAVERSE JOINTS
- HIGH PERCENTAGE OF RECYCLED ALUMINIUM
- LIFESPAN > 50 YEARS
- TRANSITION FROM THE ROOF TO THE FAÇADE POSSIBLE

BEMO ROOF SYSTEMS – OPTIMAL CONSTRUCTION



BEMO roof systems can be individually designed to meet the building requirements.

Depending on the type of insulation package, BEMO roof systems can achieve thermal transmission values of $< 0.15 \text{ W/m}^2\text{K}$.

In addition to the construction requirements, the cost efficiency, sustainability and of course a simple, quick and safe installation all play an important role. For projects with high thermal insulation requirements, roof structures with as high a percentage of soft insulation as possible and non heat-conductive BEMO thermo halters are recommended.

The roof accessories BEMO-SOFT and BEMO-SOFT PLUS are frequently used in commercial buildings.

BEMO-SOFT (PLUS): Layers of “soft” insulation with GFK halters directly on the load-bearing level. Very cost-efficient. Available with a very low U-value of $0.131 \text{ W/m}^2\text{K}$.

You can find suitable BIM data here:



You can find more examples of structures on our website:

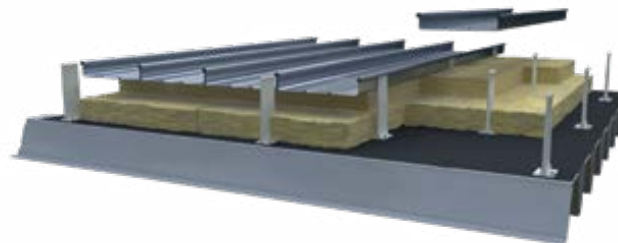


BEMO-SOFT

➤ **EXAMPLE OF A BEMO-SOFT ROOF STRUCTURE:**
BEMO Standing seam N65-400 / 1.0 mm aluminium
BEMO Thermo halter GFK245 (1.5 pcs/m²)
180 mm mineral wool 035, ~20 kg/m³
Cold self-adhesive vapour barrier (sd $>1500 \text{ m}$)
Steel support shell 0.75 mm (according to statics)

➤ **THERMAL INSULATION:**
U-value without consideration of heat bridges at selected points: $0.172 \text{ W/m}^2\text{K}$
U-value with consideration of heat bridges at selected points: $0.174 \text{ W/m}^2\text{K}$

➤ **SOUND INSULATION:**
Weight per m²: ~16 kg
Predicted sound reduction R: ~ 35 dB

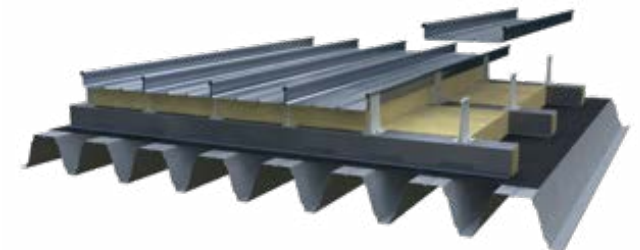


BEMO-SOFT PLUS

➤ **EXAMPLE OF A BEMO-SOFT PLUS ROOF STRUCTURE:**
BEMO Standing seam N65-400 / 1.0 mm aluminium
BEMO Thermo halter GFK205 (1.5 pcs/m²)
100 mm steel cap profile, distance of 1.5 m
240 mm mineral wool 032, ~20 kg/m³
Cold self-adhesive vapour barrier (sd $>1500 \text{ m}$)
Steel support shell 0.75 mm (according to statics)

➤ **THERMAL INSULATION:**
U-value without consideration of heat bridges at selected points: $0.130 \text{ W/m}^2\text{K}$
U-value with consideration of heat bridges at selected points: $0.145 \text{ W/m}^2\text{K}$

➤ **SOUND INSULATION:**
Weight per m²: ~20 kg
Predicted sound reduction R: ~ 38 dB



PRIMO CLIP-ON FAÇADES – COVERED FASTENINGS WITH A HIGH DEGREE OF DESIGN FREEDOM



PRIMO CLIP-ON FAÇADES

A PRIMO clip-on façade is the optimal façade solution for your company buildings. You can choose a grid dimension between 200 mm and 800 mm. The PRIMO substructure can be installed on any base or substructure. Thanks to a new type of fixed point assembly, panels can also be removed and replaced after they have been installed – an important plus point for buildings which can be easily damaged. The linear expansion is not subject to any constraints and is permanently and fully stress-free. This ensures the premium quality appearance of the façade.

PRIMO clip-on façades – Feasibility

Material	Steel			
Material thickness mm	1.5	1.25	1.0	0.88
Grid dimension mm	300 / 350 / 400 / 450 / 500 / 600 / 800	300 / 350 / 400 / 450 / 500 / 600	300 / 350 / 400	250 / 300
Coatings	PE / PVDF			
Lengths	500 – 6 000 mm			

PRIMO CLIP-ON FAÇADES

- YOU CAN CHOOSE A GRID DIMENSION BETWEEN 200 MM AND 800 MM
- CAN BE INSTALLED ON ANY BASE
- NEW TYPE OF FIXED POINT ASSEMBLY
- INDIVIDUAL PANELS CAN BE REPLACED LATER
- FREE LINEAR EXPANSION
- CORNER AND JAM LIPPING



 Company Buildings in Werl // Germany



COMPOSITE FAÇADE PANELS – THE PERFECT CHOICE FOR HIGH-QUALITY COMMERCIAL BUILDINGS



BEMO-BOND / BEMO-BOND INVISIO
BEMO-BOND composite panels are also available in large formats. The fastening of the composite panels can be done so that the fastening is visible. Covered and invisible façade fastenings are available either as coffer systems or with the new, innovative BEMO-BOND INVISIO system.

ADVANTAGES OF BEMO-BOND

- SMOOTH SURFACE
- SEALED AND PROTECTED SURFACE THANKS TO THE BEMO-FLON COATING
- LARGE FORMAT
- EASY INSTALLATION THAT CAN BE DONE IN ALL WEATHER CONDITIONS
- CLOSED CUT EDGES
- JOINT BACKING POSSIBLE
- STABLE AND DURABLE CORNER AND JAM LIPPING
- A2 FIRE PROTECTION CLASSIFICATION
- LETTERS AND LOGOS CAN BE MILLED IN

BEMO-BOND composite façade panels

Registration number	Z-33.2-1559
Outer coating	BEMO-FLON
Cover plate	Two 0.5 mm aluminium cover plates, EN AW-3105 or 3005 alloy
Core	Polyethylene / inorganic filler
Format sizes	w: 800 – 2 000 mm, l: up to 7 200 mm
Hole patterns	Perforated sheets with max. 45% holes
Weight	Polyethylene: 7.6 kg/m ² / inorganic filler: 8.1 kg/m ²
Fire protection classification according to DIN EN 13501-1	B-s1, d0 / A2-s1, d0



Company Buildings in Umkirch // Germany



Closed edges



With perforations



Corner lipping



BEMO-BOND INVISIO



Rounded panels

TECHNICAL SUPPORT – RIGHT FROM THE START



CALL FOR TENDERS SERVICE

We offer on-site, competent and project-related consulting. We then use this as the basis for a detailed bill of quantities.

EXECUTION PLANNING

We create installation and production plans and detailed solutions for the installation. We can do this either in 2D or 3D. The BEMO planning package also includes any necessary statistical calculations and verifications, as well as construction and acoustic verifications.



We support you right from the start and take on the call for tenders and execution planning.

THERMAL INSULATION CALCULATIONS

Thermal insulation calculations are also part of our standard planning services. We achieve optimal thermal protection with our heat bridge-free systems. To avoid having heat bridges at selected points in the façade, as they can have massively detrimental effects on the thermal insulation of a building, we use our new heat bridge-free TEKOFIX A++ console. This helps us to achieve savings of up to 75% in the insulation package – a major cost advantage. In addition, it offers outstanding fire protection as it has a fire protection classification of A.



High thermal insulation thanks to the heat bridge-free TEKOFIX A++ façade substructure.

EXAMPLES OF DETAILED SOLUTIONS

ROOF

Continued from page 10

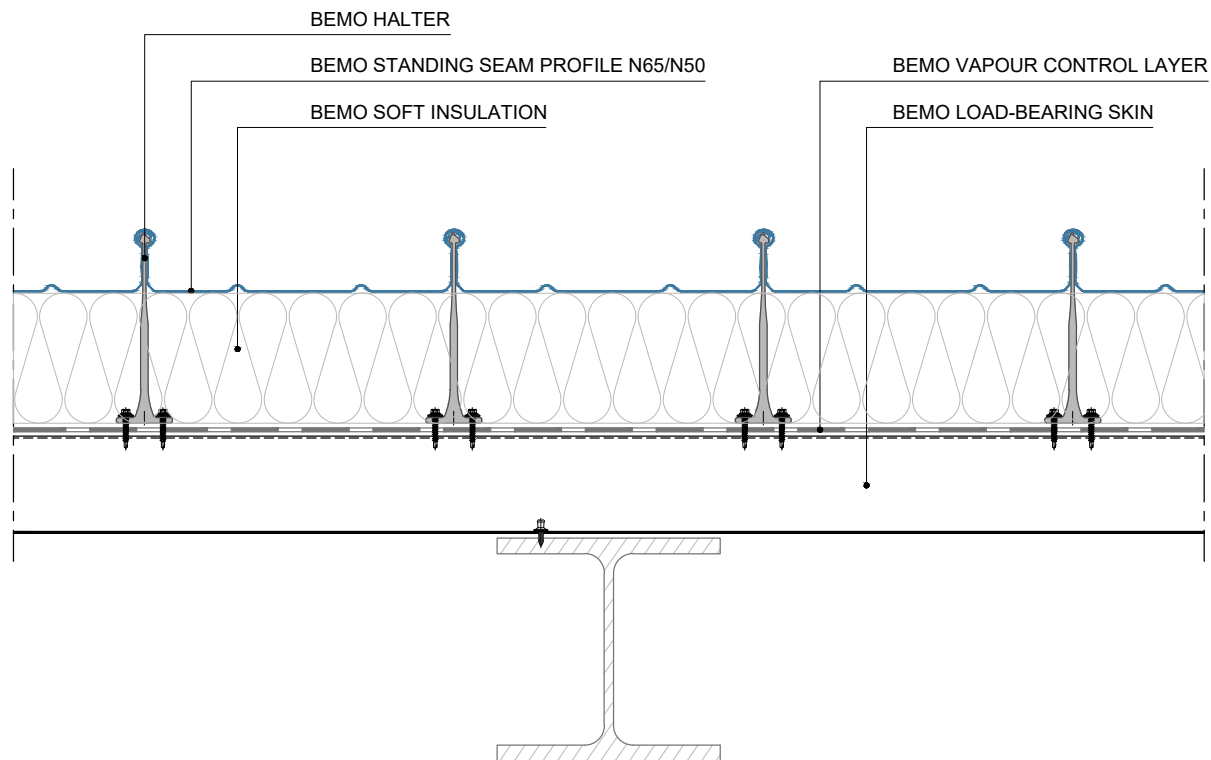
- BEMO-SOFT ROOF STRUCTURE 1052
- BEMO-AKKORD ROOF STRUCTURE 1080/1081
- PITCH ROOF RIDGE 1202
- EAVES WITH PARAPET 1501

EXAMPLES OF DETAILED SOLUTIONS

FAÇADE

Continued from page 15

- PRIMO FAÇADE STRUCTURE F1100/F1101
- PRIMO BASE CONSTRUCTION F1200
- PRIMO PARAPET FORMATION F1800



DRAWING TITLE:

**ROOF SYSTEM BEMO-SOFT
STRUCTURAL DECK (TRANSVERSE)**

TYPE:

CROSS SECTION

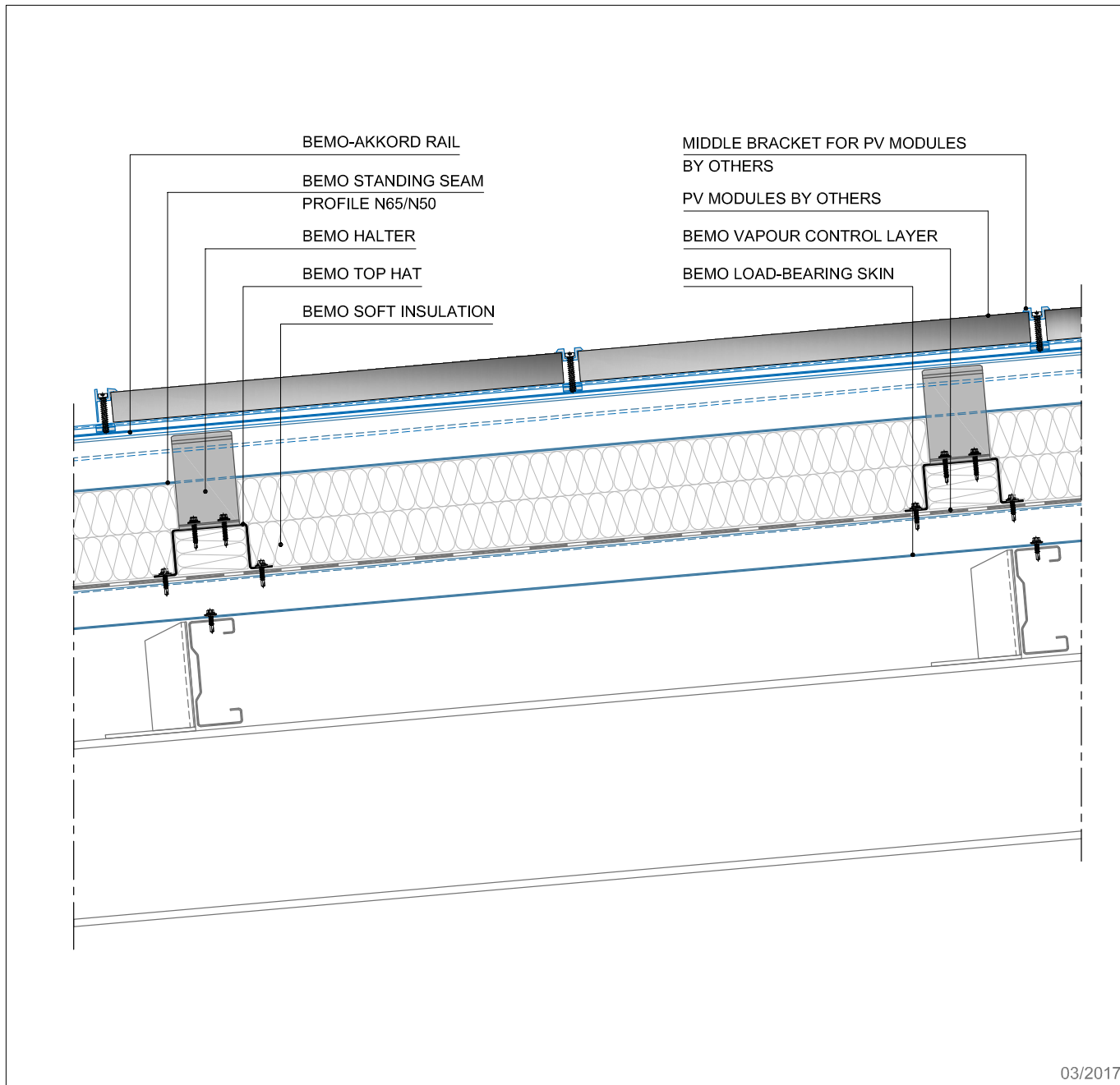
TYPICAL DETAIL

1052

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DRAWING TITLE:

ROOF SYSTEM BEMO-AKKORD OVER PURLIN SYSTEM

TYPE:

LONGITUDINAL SECTION

TYPICAL DETAIL

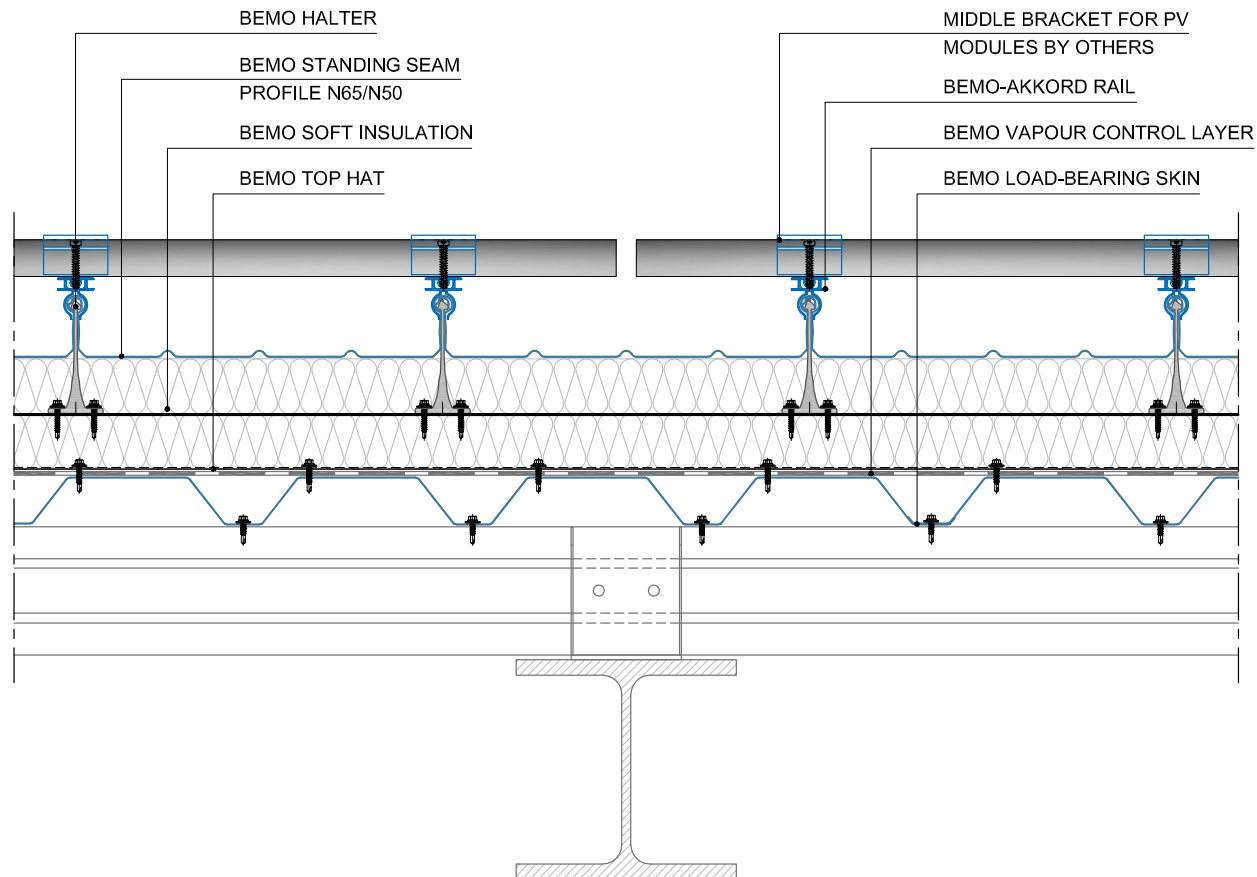
1080

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03/2017



DRAWING TITLE:

**ROOF SYSTEM BEMO-AKKORD
OVER PURLIN SYSTEM**

TYPE:

CROSS SECTION

TYPICAL DETAIL

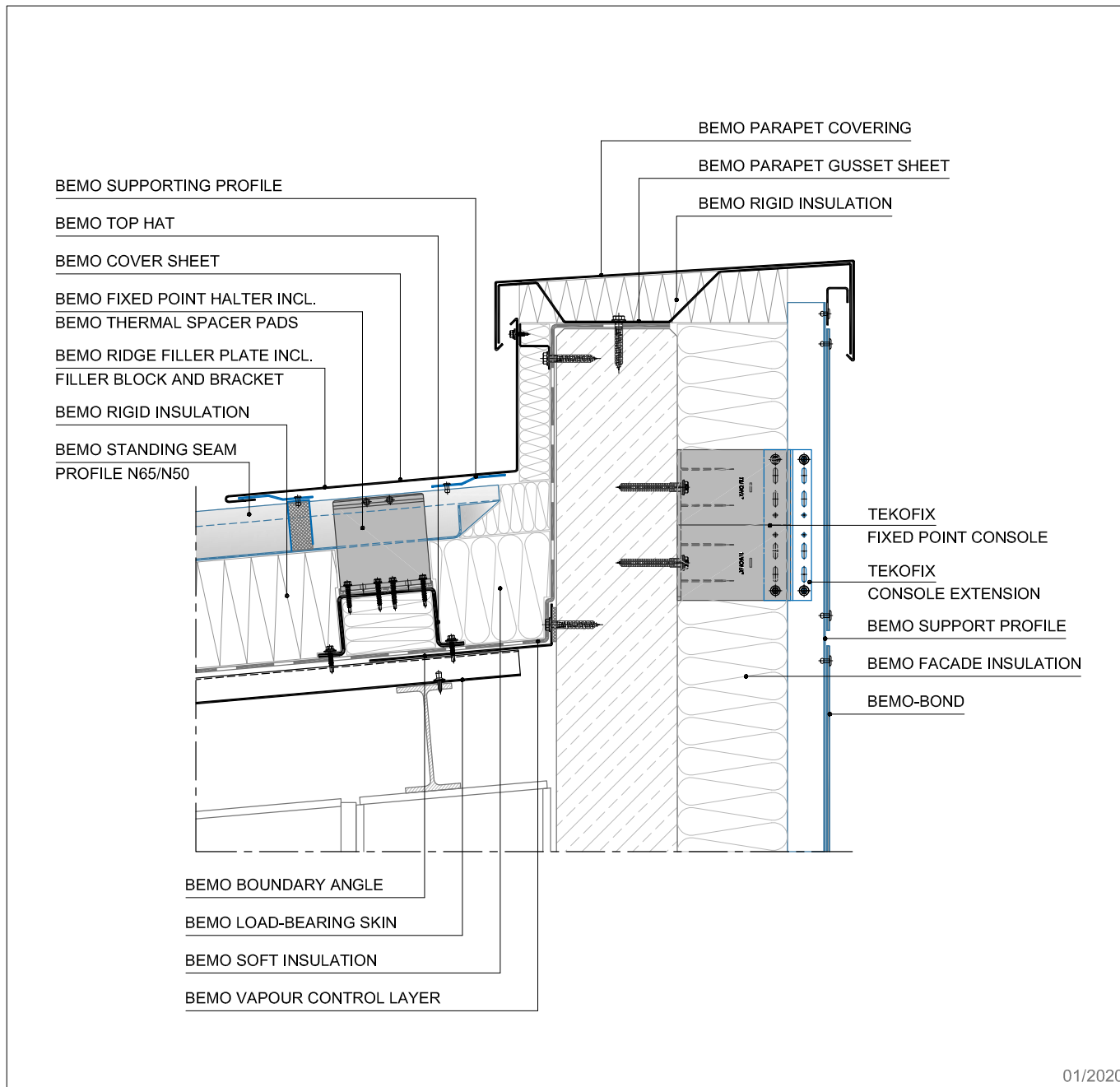
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03/2017



DRAWING TITLE:

PITCH ROOF RIDGE AT PARAPET STRUCTURAL DECK (TRANSVERSE)

TYPE:

LONGITUDINAL SECTION

TYPICAL DETAIL

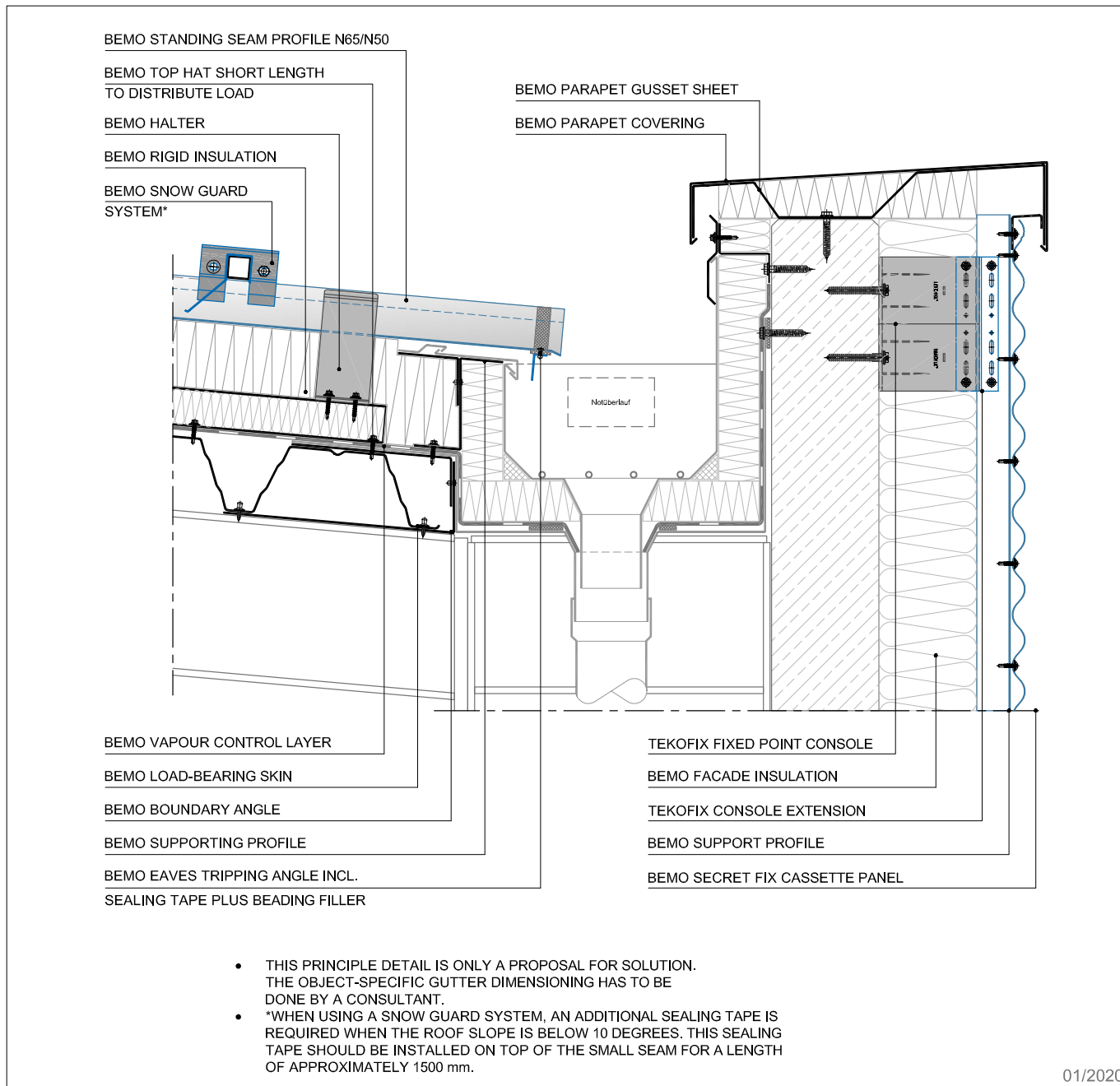
1202e

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01/2020



DRAWING TITLE:

EAVES WITH PARAPET STRUCTURAL DECK (TRANSVERSE)

TYPE:

LONGITUDINAL SECTION

TYPICAL DETAIL

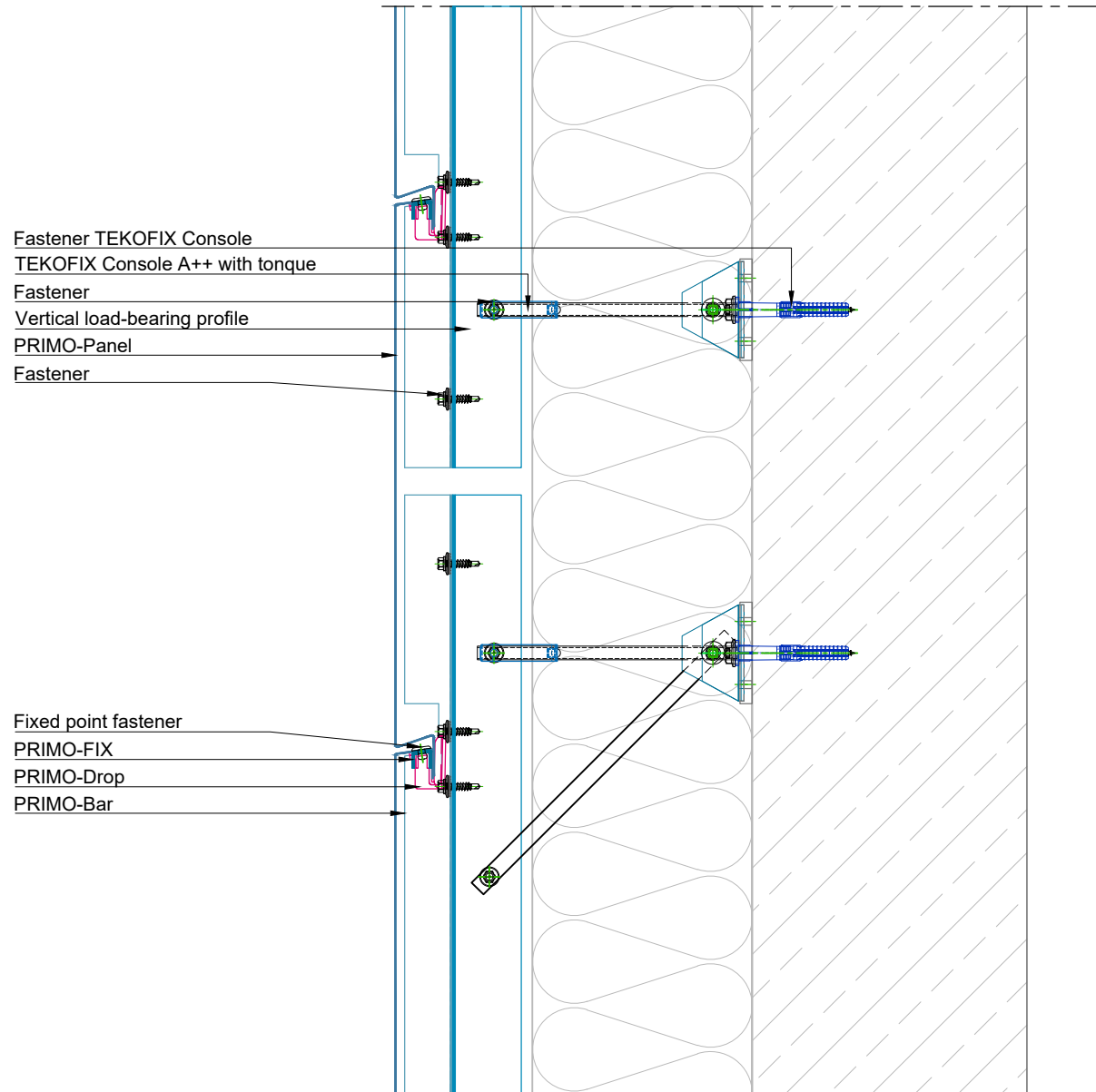
1501d

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Maximum load-bearing profile length for this type of joint depending on the selected cladding profile, fixation scheme and the colour of the cladding.



DRAWING TITLE:

**FACADE BUILD-UP
PRIMO**

TYPE:

VERTICAL SECTION

TYPICAL DETAIL

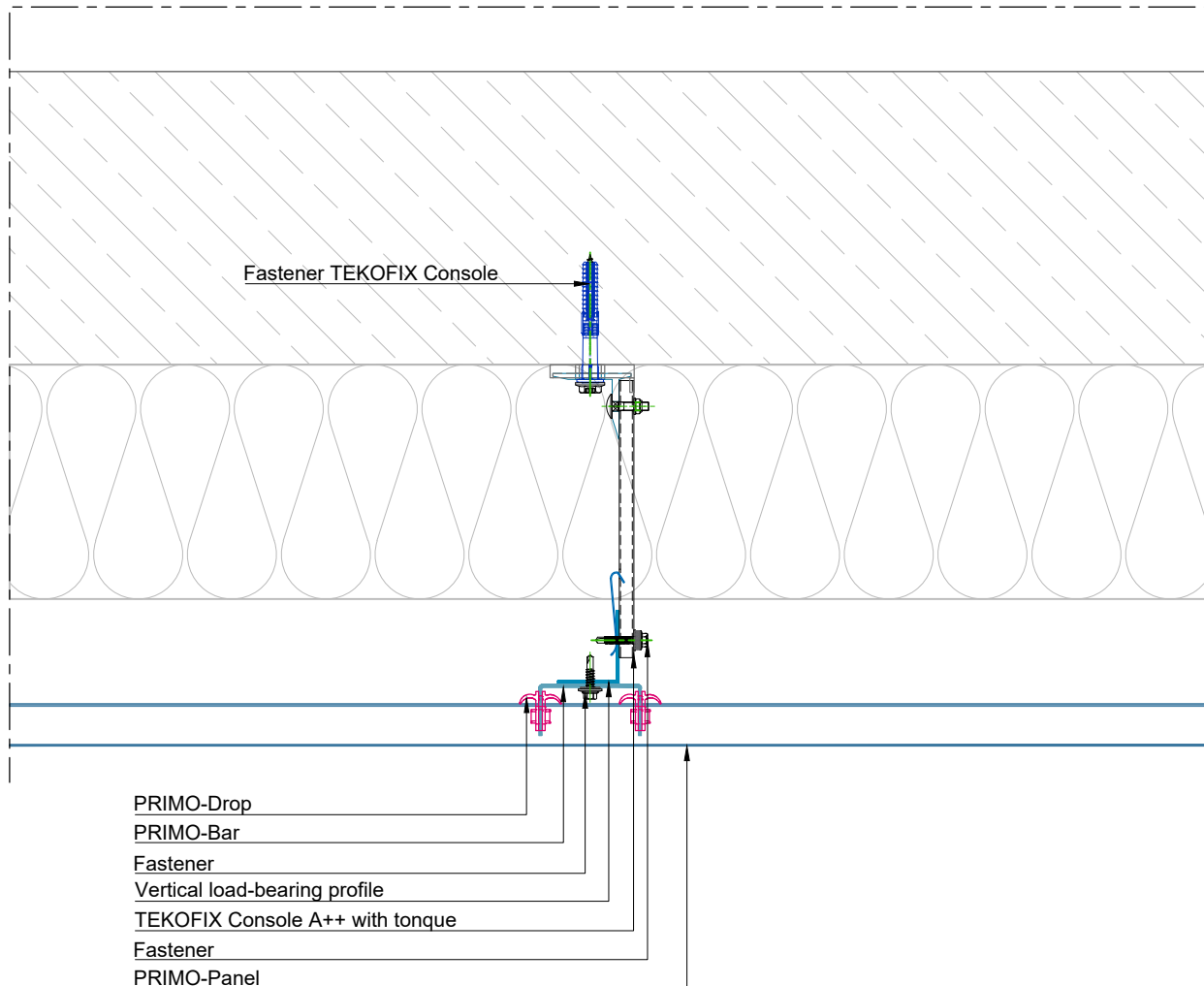
F1100a

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07/2020



DRAWING TITLE:

**FACADE BUILD-UP
PRIMO**

TYPE:

HORIZONTAL SECTION

TYPICAL DETAIL

F1101a

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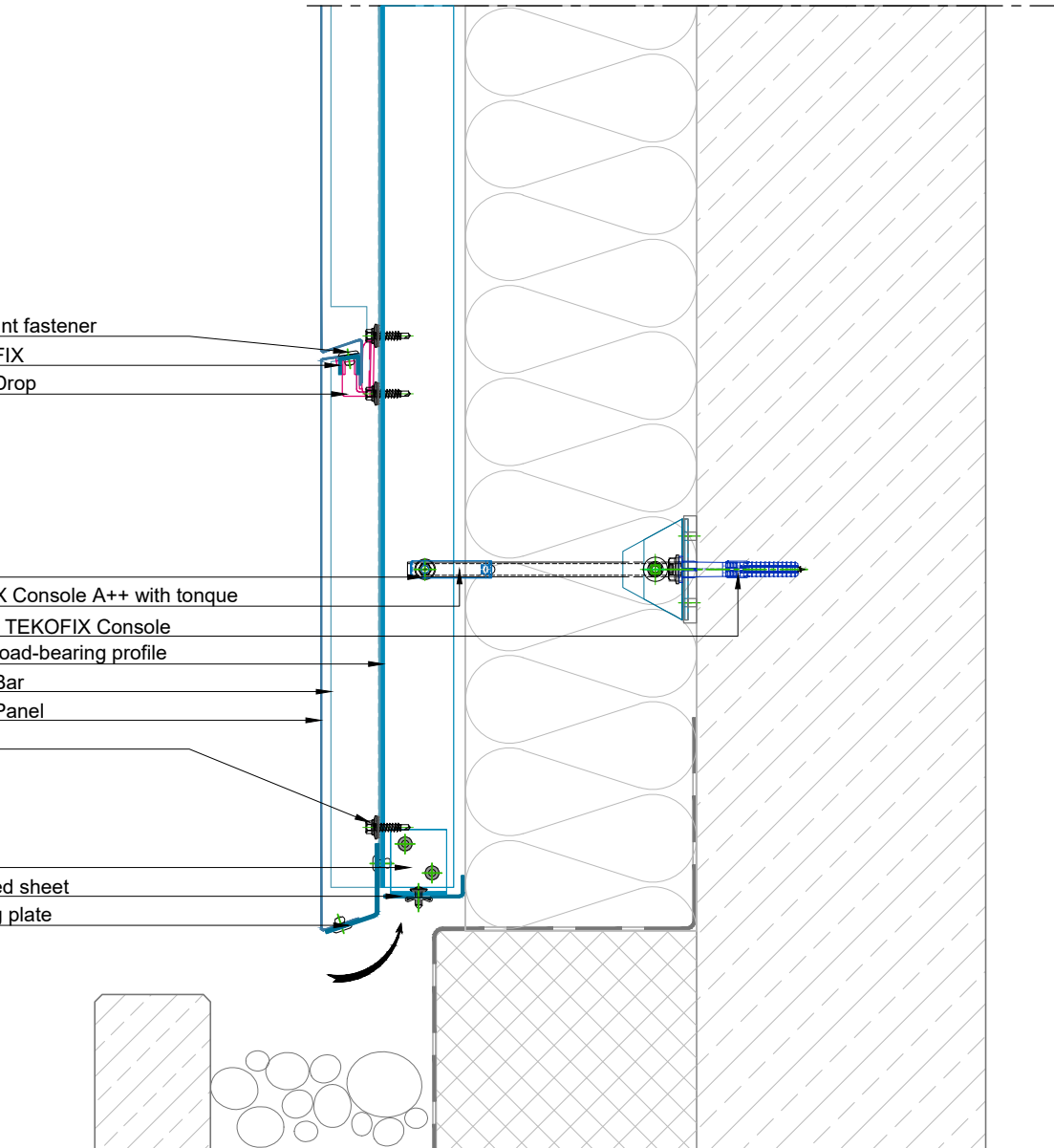
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07/2020

Fixed point fastener
PRIMO-FIX
PRIMO-Drop

Fastener
TEKOFIX Console A++ with tonque
Fastener TEKOFIX Console
Vertical load-bearing profile
PRIMO-Bar
PRIMO-Panel
Fastener

L-angle
Perforated sheet
Mounting plate



DRAWING TITLE:

PLINTH DETAIL
PRIMO

TYPE:

VERTICAL SECTION

TYPICAL DETAIL

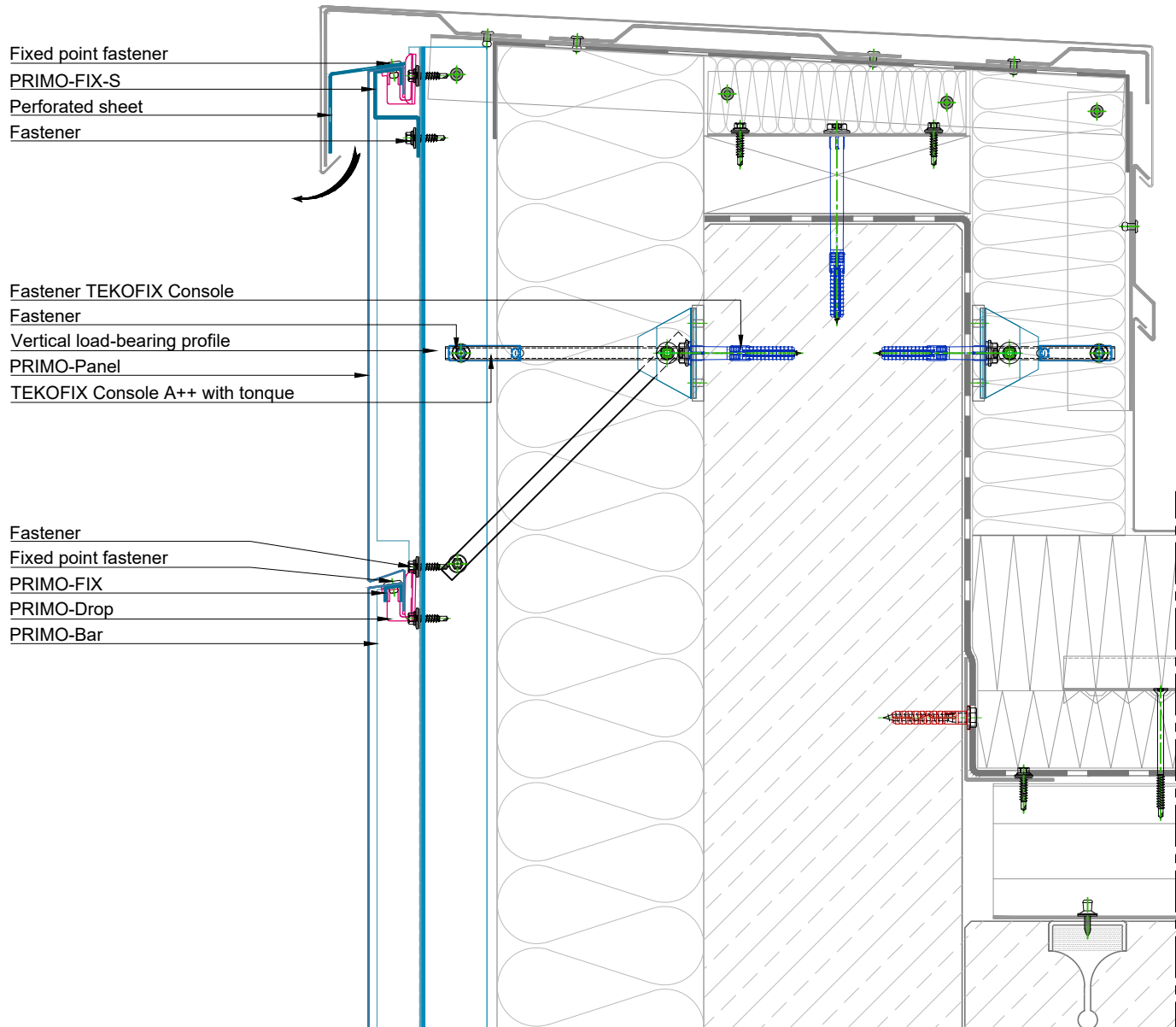
F1200b

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07/2020



DRAWING TITLE:

**ATTICA DETAIL
PRIMO**

TYPE:

VERTICAL SECTION

TYPICAL DETAIL

F1800a

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07/2020



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