

Technical Information Motio Facade System

FACADE SOLUTIONS

Design Strength Meets
System Intelligence



Motio
Design Strength Meets
System Intelligence.



The Raiment of Architecture

A Tribute to Gottfried Semper

Architecture is more than construction. It is expression, attitude, and culture. Gottfried Semper emphasized that for architecture, cladding is fundamental, not the primary structure. The facade becomes language and a cultural sign, shaping identity and opening a dialogue with its surroundings. This perspective continues to shape architecture to this day and finds tangible form in the ventilated rainscreen facade. By separating the primary structure, insulation, and surface, it makes visible that technology and design belong together.

What Gottfried Semper set out in his theory of dressing finds its built expression in our ceramic facades. We too understand the facade not as a mere envelope, but as a form of expression, as language, as a cultural sign. From this understanding, we develop facade systems that are more than components. They are structured solutions that give architecture meaning and substance. In Semper's sense, the facade becomes the raiment of architecture, a medium between structure and expression, technology and culture. It creates identity by placing architecture in relation to space, to the city, to time.

Our facade systems open up a level of design freedom that is unrivalled. They encompass a wide spectrum of formats, colours, and surfaces, enable project specific custom solutions, and, through digital engobing, allow for almost unlimited design variations, from subtle textures to expressive graphic motifs. In this way, the ceramic panel becomes a projection surface for architectural ideas, giving designers the freedom to give each design a distinctive character.

They provide technical clarity through coherent system logic, a standards compliant system design, and detailed planning documentation, ensuring that design and execution rest on a secure foundation. They build trust by supporting architects and planners throughout all project phases. The result is architecture in dialogue: conceived with inspiration, planned with precision, built to endure.

Products

Motio Basalt matte
brushed and smooth

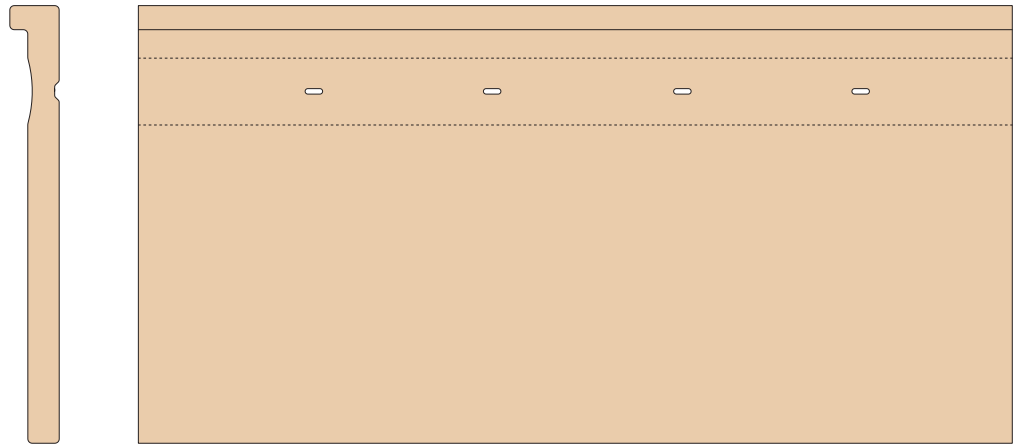
Table of Contents

Product Range	8
Motio Facade Panel	8
Accessories	9
Technical Specifications	10
General Notes	10
Technical Data	11
Installation	14
Installation Sequence for a Metal Substructure	17
Construction Details	20
Facade Build Up	20
Window Connections	23
Example Transition to ETICS	25
Corner Solutions	26
Metal Connection Profiles	28

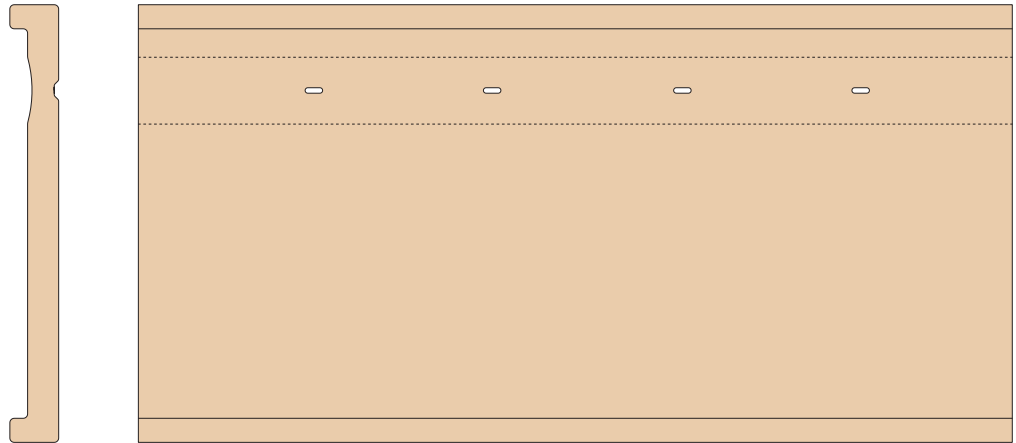
Product Range

Motio Facade Panel

Motio with L Profile



Motio with U Profile



Note:

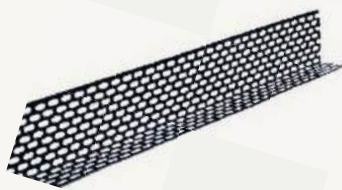
Depending on the desired appearance, the profiles can be executed with a sharp edge or a slightly rounded edge.

Accessories

V2A Screw 4.5 × 50 mm with EPDM Sealing Washer for Fixing the Motion Facade Panel



Ventilation Angle for Base and Window / Door Cladding



Internal Metal Corner as a Linear Metre Profile (Construction Example)



External Metal Corner as a Linear Metre Profile (Construction Example)



External Metal Corner as a Separate Component (Construction Example)



Crossfix® Wall Bracket



Torque Wrench



Aluminium Support Profile for Fixing the Support Battens



Drilling Screw for Fixing the Support Profile to the Wall Bracket and for Fixing the Support Battens to the Metal Profile



Technical Specifications

General Notes

When planning and installing ventilated rainscreen facades, the ZVDH regulations and the FVHF guidelines must be followed. For timber substructures, we recommend a counter batten spacing of ≤ 85 cm. The client must check whether planning permission is required.

A specialist planner and a structural engineer must be involved to ensure proper planning and execution. Fire protection requirements and thermal insulation requirements in accordance with DIN 4108 and the EnEV must be verified.

State Building Regulations

The suitability for use must be demonstrated in accordance with the applicable standards, certificates and approvals. If this is not possible, an approval on a case by case basis (ZIE) is required.

Actions for self weight in accordance with DIN EN 1991 1 1, wind loads in accordance with DIN 1991 1 4, snow and ice loads in particularly exposed areas, restrained deformations and imposed restraints, and special loads, for example attached components, must be taken into account. Thermal insulation for buildings in accordance with DIN 4108, sound insulation for buildings in accordance with DIN 4109, fire protection in accordance with DIN 18516 1 and the EnEV must also be considered.

The substructure must be installed stress free, taking into account material specific linear expansion due to temperature and moisture.

An average installation temperature of $+10$ °C and limit temperatures from -20 °C to $+80$ °C must be taken into account. Permanent scaffold anchors in accordance with DIN 4426 must be planned so that, wherever possible, they remain permanently accessible without dismantling the cladding elements.

Deviations from standards and guidelines may be possible on a case by case basis, provided they are verified by a specialist planner and a structural engineer. Written documentation and approval by the client and the building authority are required.

Anchor pull out tests, "execution and evaluation of on site tests", must be provided. Only approved anchors may be used for the different substrates.

For the connection of the substructure, the screws recommended by the supplier for the relevant application must be used. The screw connection must be made without restraint.

The dimensioning of the timber substructure must be carried out in accordance with DIN EN 1995 1 1 (Eurocode 5) or the relevant approvals and assessments. For the timber substructure, grading class S10 in accordance with DIN 4047 1 or a minimum strength class C24 in accordance with DIN EN 338 is used.

Particular attention must be paid to structural timber protection during execution planning (see DIN 68800 1 to 3 and DIN 68800 5).

Insulation boards must be fixed using insulation fasteners in accordance with DIN 18516 1. Sufficient rear ventilation between the insulation layer and the cladding must be ensured.

A rear ventilation cavity of 30 mm to 50 mm must be allowed for in the planning. For sizing the rear ventilation space, the relevant specifications and approvals, standards and building regulations must be complied with.

The required rear ventilation cavity of at least 20 mm, or at least 200 cm² per metre in horizontal cross section, must not be reduced.

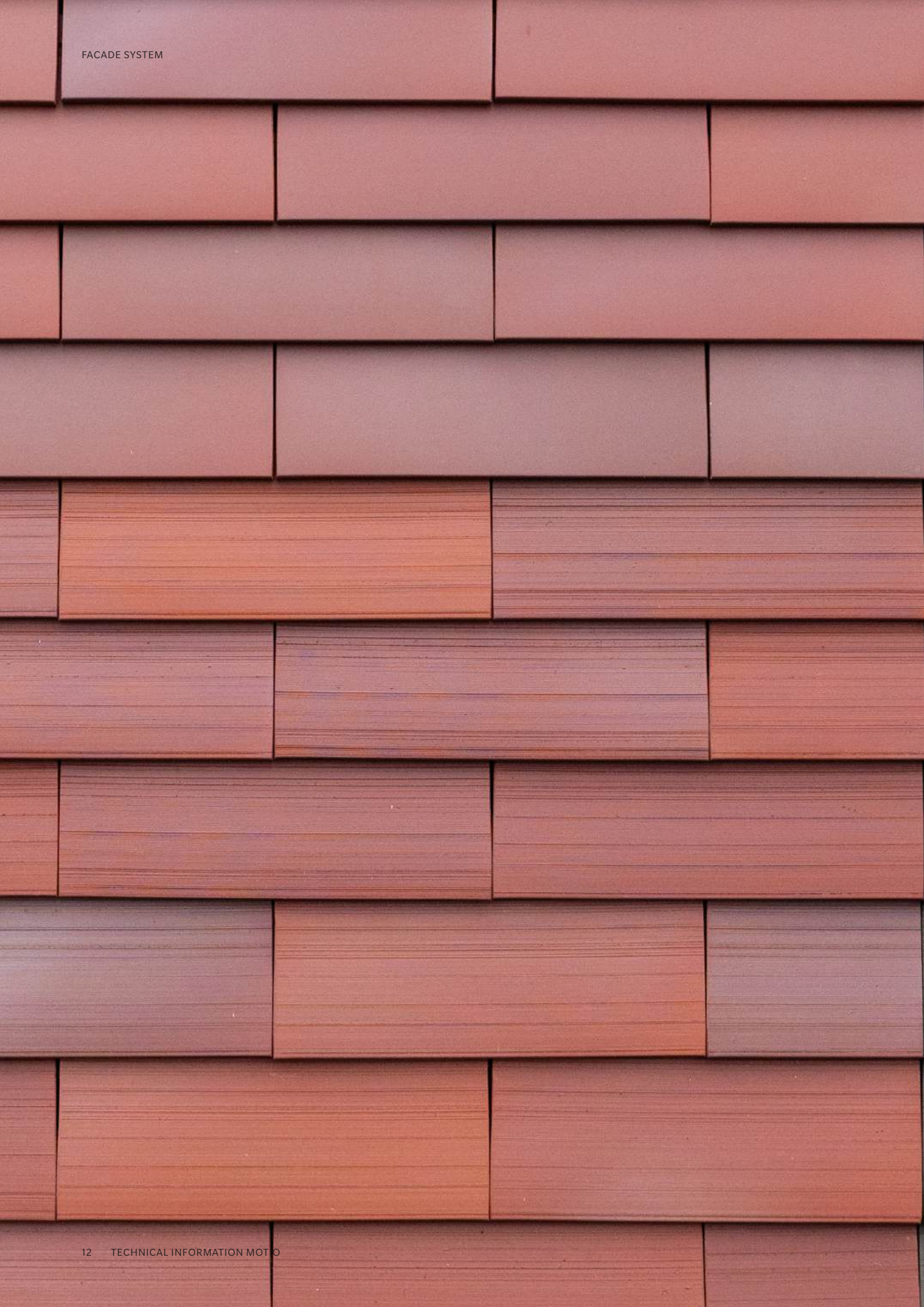
Ventilation openings at the base or roof edge must provide a minimum free area of 50 cm² per metre of wall length. Where openings are interrupted, for example by windows at the lintel area or window sill, additional inlet and outlet openings must be provided.

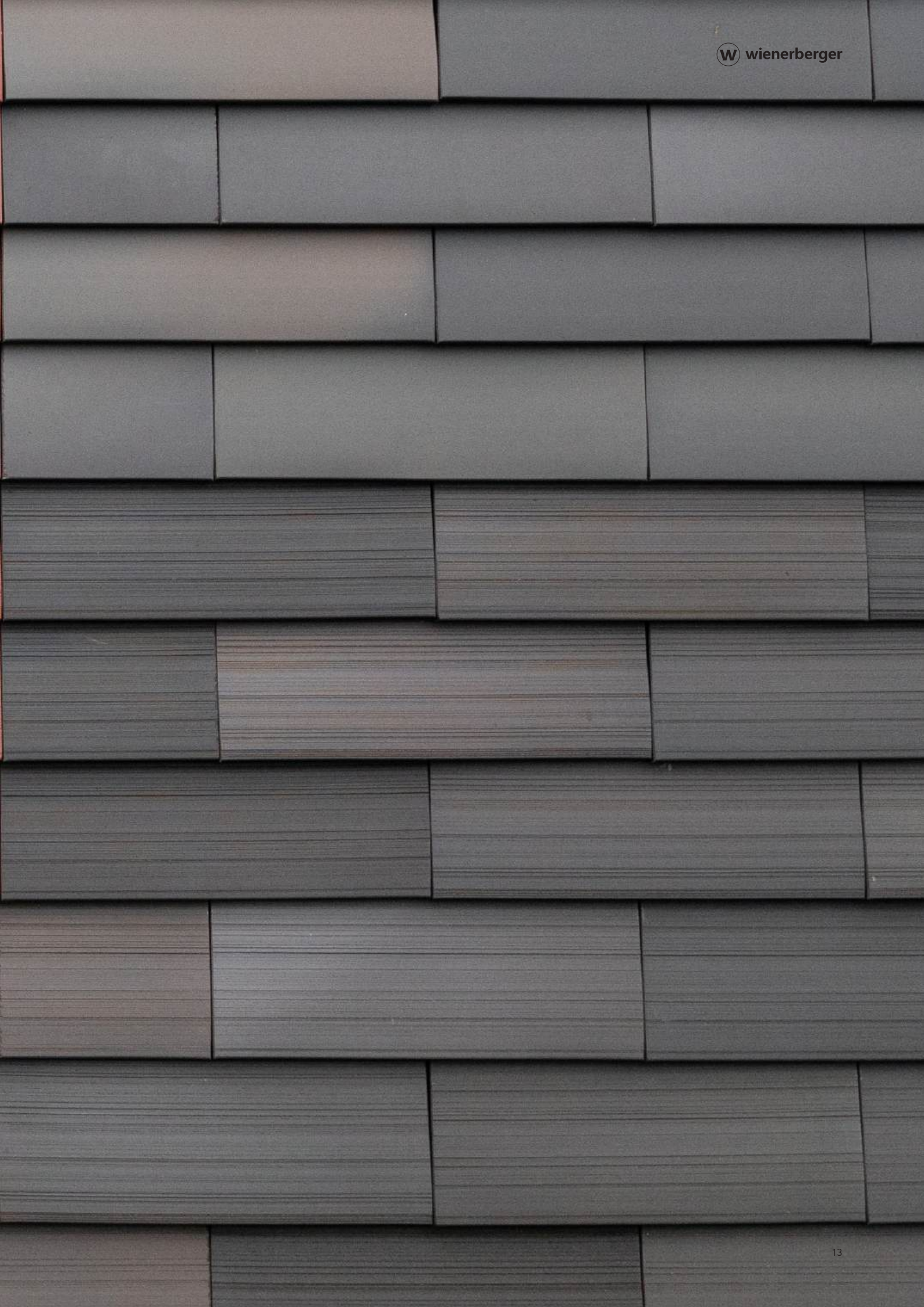
The lower termination should be at least 30 cm above the adjacent ground or paved surface:

- From 30 cm upwards, there are no requirements for the ground surface.
- From 15 cm upwards, provide a water draining surface with a slope of at least 2%.
- From 15 cm upwards, additionally provide a gravel bed (grain size 16 to 32) with a width of 30 cm.
- From 5 cm upwards, provide suitable waterproofing measures in accordance with DIN 18195 4. However, we advise against this type of construction due to the vapour tight enclosure of the threshold.

Technical Data

Size	approx. 400 x 200 mm
Cover Width	min. approx. 400 mm
	avg. approx. 400 mm
	max. approx. 400 mm
Cover Length	min. approx. 110 mm
	avg. approx. 130 mm
	max. approx. 150 mm
Quantity Required	min. approx. 16,7 pcs/m ²
	avg. approx. 19,2 pcs/m ²
	max. approx. 22,7 pcs/m ²
Unit Weight	approx. 2,5 kg
Weight/m²	approx. 40,9 kg/m ²
Mini Pack	8 pcs
Pallet	480 pcs
Fire Rating	A1
Water Absorption	approx. 6 %
Batten Spacing	110 to 150 mm





Installation

- 1 Depending on the primary structure and the insulation material, it may be necessary to install a facade membrane, for example Creaton Trio longlife extra



- 2 Fixing the counter battens to the primary structure. We recommend a batten section of 40 × 60 mm and a maximum spacing of ≤ 85 cm.

Note: Anchoring in the primary structure or masonry must be verified by a structural engineer and by on site anchor pull out tests. This is mandatory. For this, we recommend specialist contractors who are available as wienerberger partners



- 3 Screwing the support battens to the counter battens. We recommend a batten section of 30 × 50 mm for the support battens. Use ETA approved screws Ø 4.5 × 60 mm in stainless steel quality



- 4 The base must be executed with a raised batten or a cut wedge board to ensure a consistent tilt angle of the panels. A suitable ventilation sheet must be installed at the base.



- 5 Fixing the internal and external metal corners. An overlap of more than 4 cm of the Motio facade panels must be ensured at the corner profile. The profiles must be coordinated with and fabricated by a metalworker before installation. For a possible construction example, see the detail drawings and construction examples in the appendix.

Note: The requirements of the ZVDH regulations and the IFD facade guideline must be observed.



- 6 Adjusting the first panel. The minimum panel offset must be at least 100 mm. Cut pieces must also be secured by screwing. Joint sealing with a suitable filler strip can be installed as an option.

Note: In the area of the corner profiles, the panel hanging lip must be adjusted slightly with a hammer to ensure the overall flatness of the surface.



- 7 Installing and screwing the remaining panels. The screws must be positioned centrally within the provided slotted holes to allow installation without restraint.



- 8 Cutting and notching the panels at the window flashing or other site protruding elements. For fixing, pre drill the panel with a Ø 5 mm bit and screw it in place using a sheet metal screw with a sealing washer.



- 9 Preparing and adjusting the window or door reveal with ventilation grille, reveal flashing and window flashing.

Note: The regulations and guidelines for rear ventilation and water drainage must be observed.



- 10 Installing the Motio facade panels beside and above windows and doors once the reveals have been formed and fixed.



- 11 Completion of the wall after installing the Motio facade panels with internal and external metal corners.



- 12 **Note:** Rear ventilation must be ensured. Flashings for the base, parapet, internal and external corners and reveals must be planned in advance for the project. To ensure effective rear ventilation, inlet and outlet openings of at least 50 cm² per metre of wall length must be provided. Any reductions in free area, for example due to ventilation grilles, must be taken into account.



Installation Sequence for a Metal Substructure

- 1 Marking out the sliding and fixed points specified in the structural design, and the positions of the wall brackets.

Note: On site anchor pull out tests in the wall must be carried out and documented by specialist contractors.



- 2 Fixing all wall brackets to the substrate and installing the torque keys at the fixed points (detail image). Then screw the vertical metal profiles to the wall brackets using the supplied drilling screws.

Note: The manufacturer specifications for the metal substructure must be observed during planning and installation.



- 3 Align the vertical metal profiles with a spirit level before fixing them to the wall brackets. This allows the support battens to be fixed without distortion and ensures the overall flatness of the surface.



- 4 If required, install and adjust the insulation and fix it using the provided insulation fasteners.



- 5 Screw the timber support battens 30 × 50 mm or 40 × 60 mm to the vertical metal rails. Ensure the correct screw length and check alignment with a spirit level. Alternatively, aluminium Z profiles can be used as support battens.



- 6 Install the corner profiles and, if required, the reveal flashings for doors and windows.



- 7 Install the Motio facade panels from bottom to top in half bond. A joint offset of at least 10 cm must be ensured.



- 8 Complete the installation. The head termination (parapet) must then be addressed and covered with a flashing to prevent rain ingress. Alternatively, corner profiles can be fabricated for each panel (see detail image).

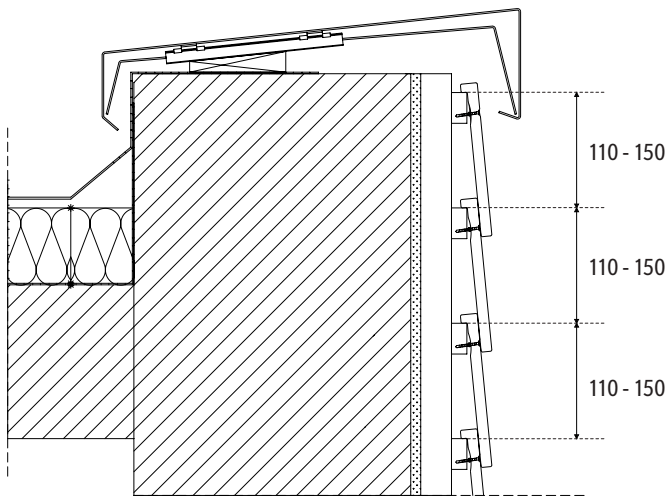




Construction Details

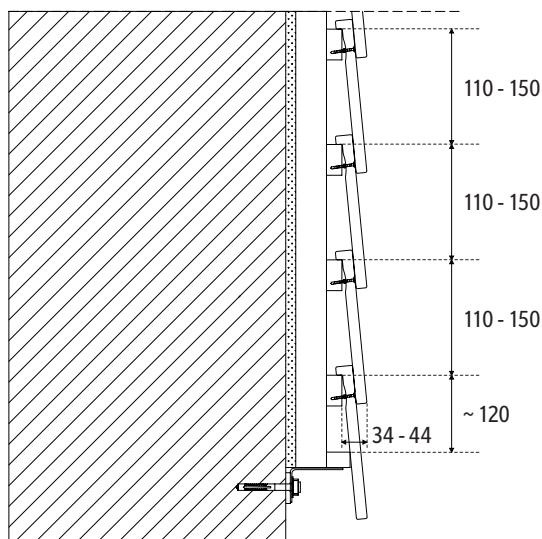
Facade Build Up

Motio Vertical Section (Dimensions in mm)

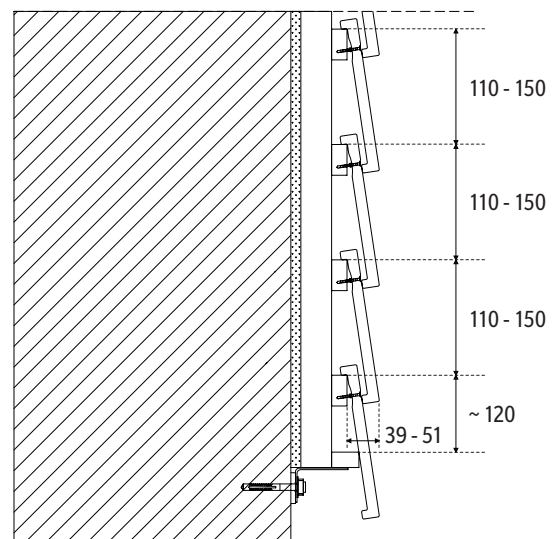


The details shown in this brochure are schematic drawings in principle. The final dimensions and the components to be used must be coordinated with the facade planner and the structural engineer and sized in accordance with the influencing factors described in the relevant standards, depending on the building class and the project location.

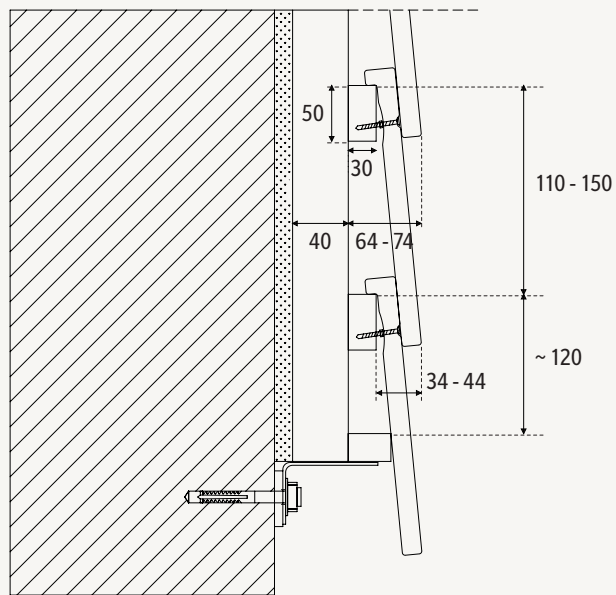
Motio L



Motio U



Detail Motio L
(Dimensions in mm)



Detail Motio U
(Dimensions in mm)

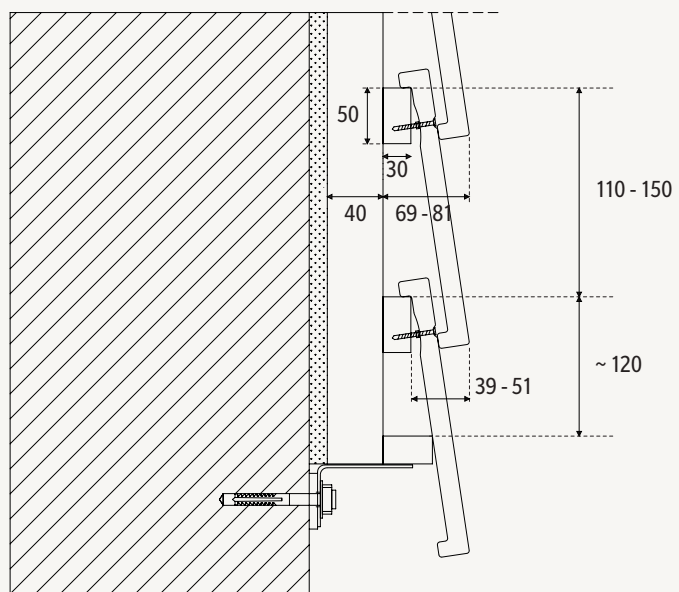


Illustration Aluminium / Timber

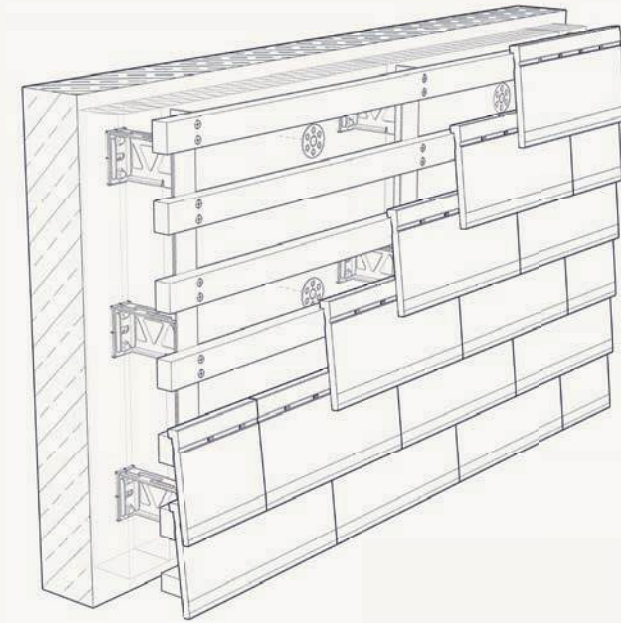
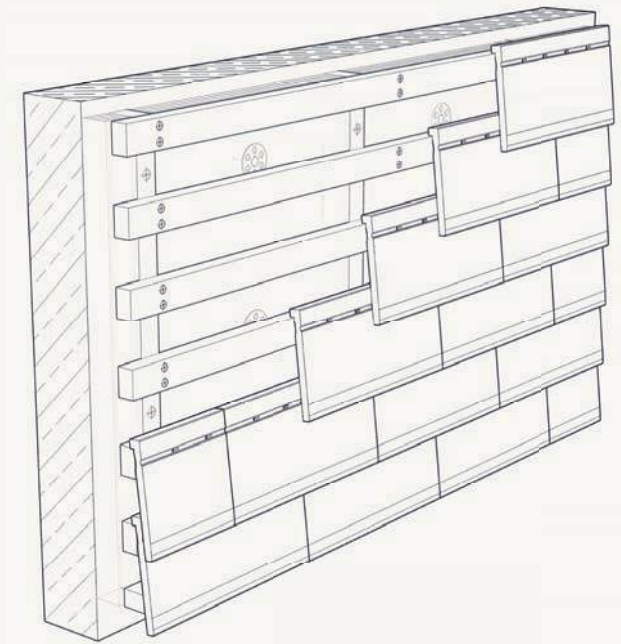


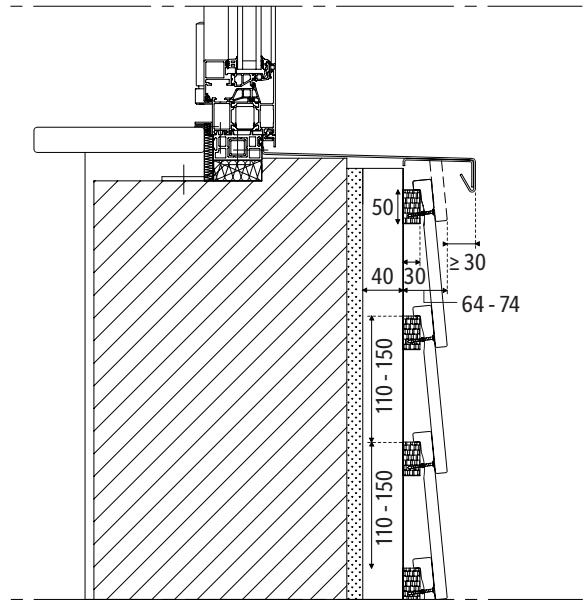
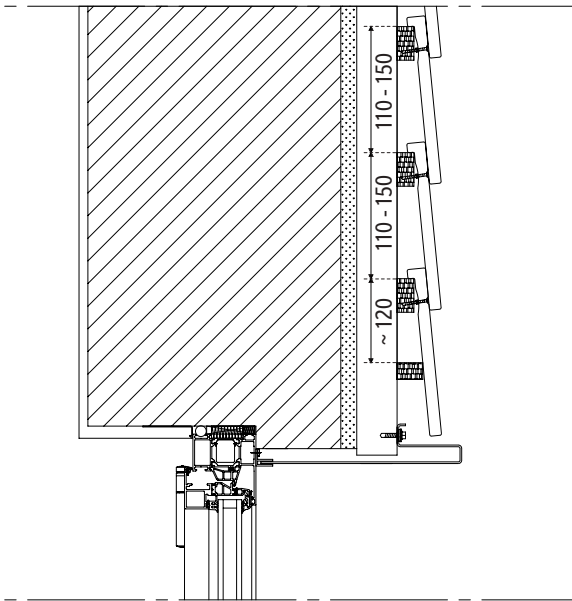
Illustration Timber / Timber



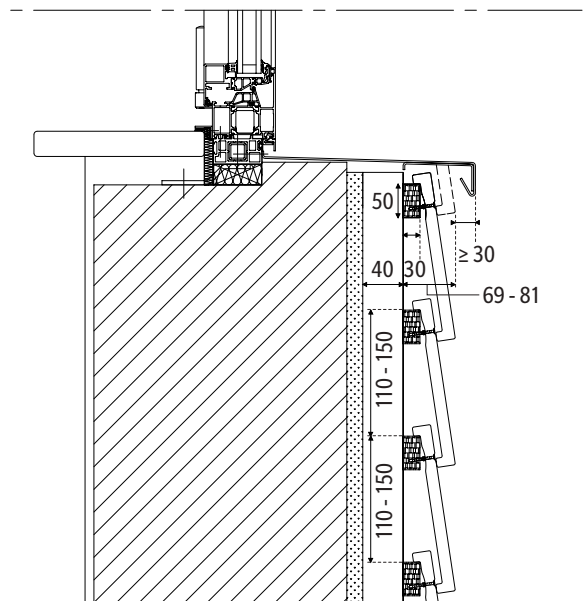
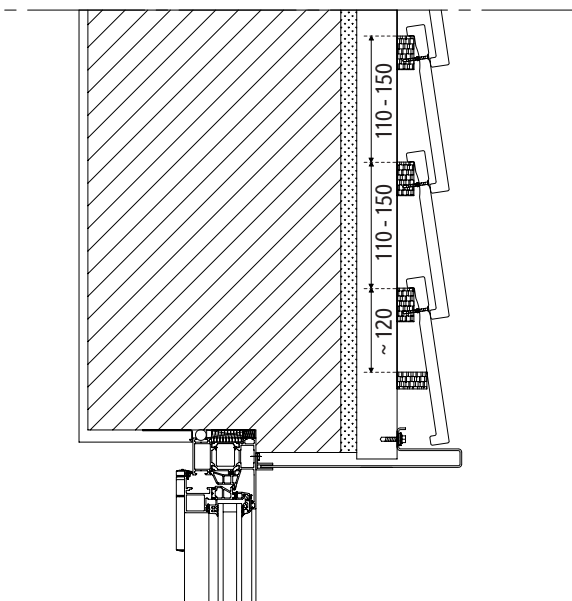
Is your preferred construction variant not shown? Please contact us, our Technical Service team will be happy to help.

Window Connections

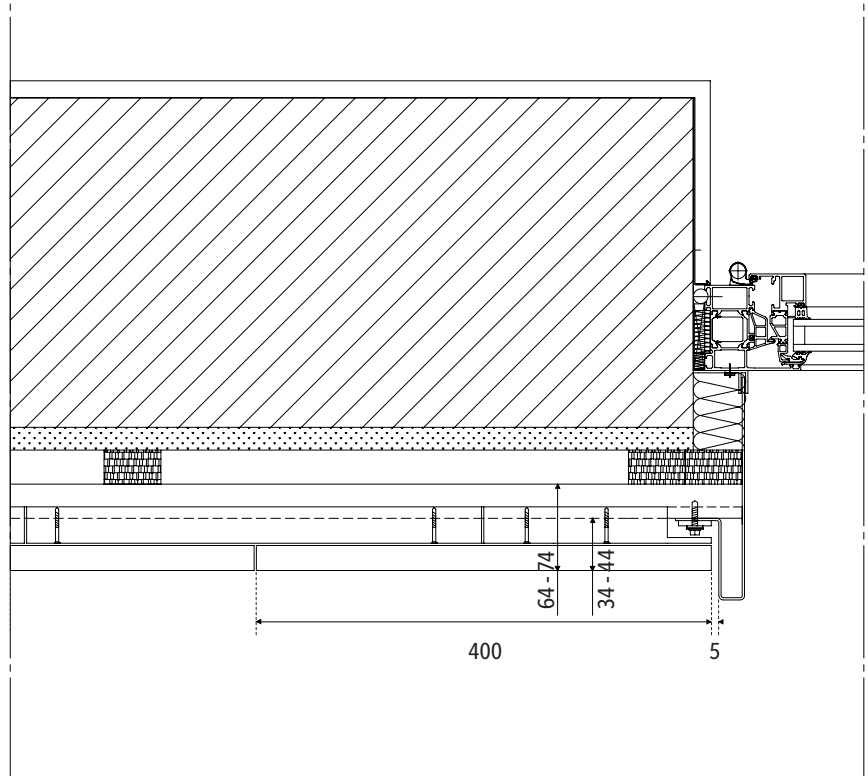
Motio L
Vertical Section, Top and Bottom Termination
 (Dimensions in mm)



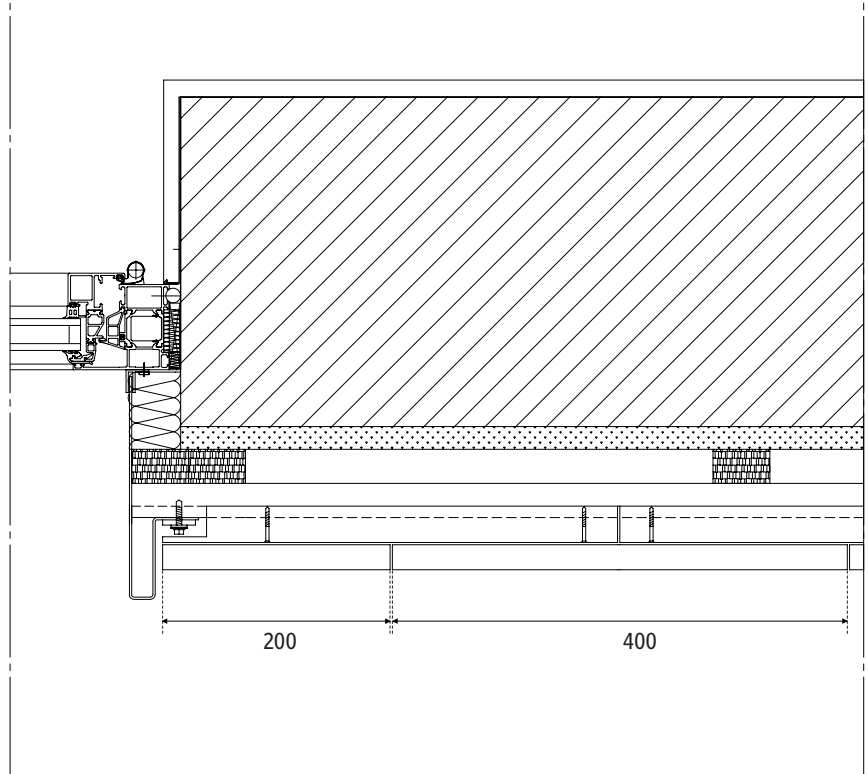
Motio U
Vertical Section, Top and Bottom Termination
 (Dimensions in mm)



Horizontal Section, Left Termination
(Dimensions in mm)

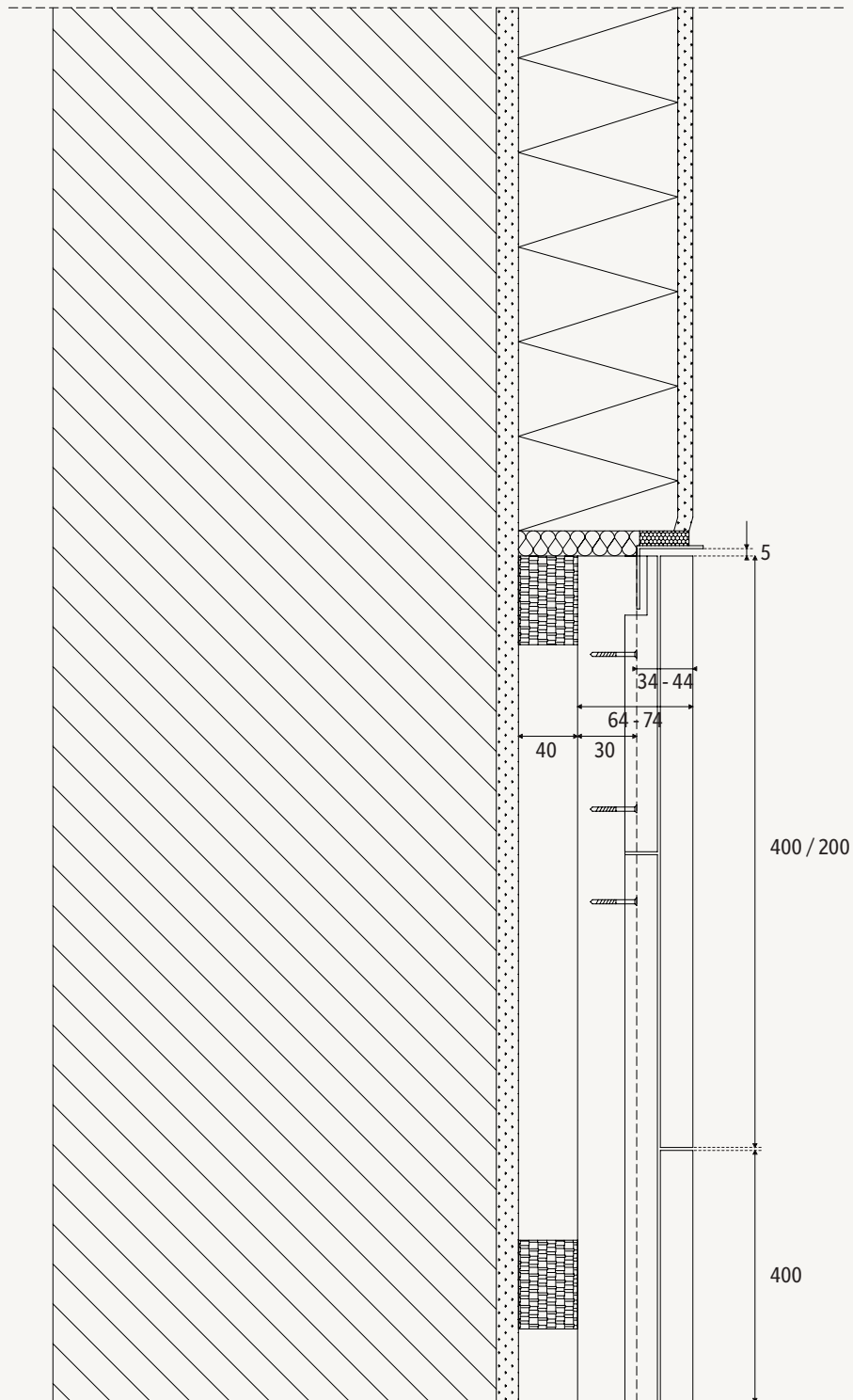


Horizontal Section, Right Termination
(Dimensions in mm)



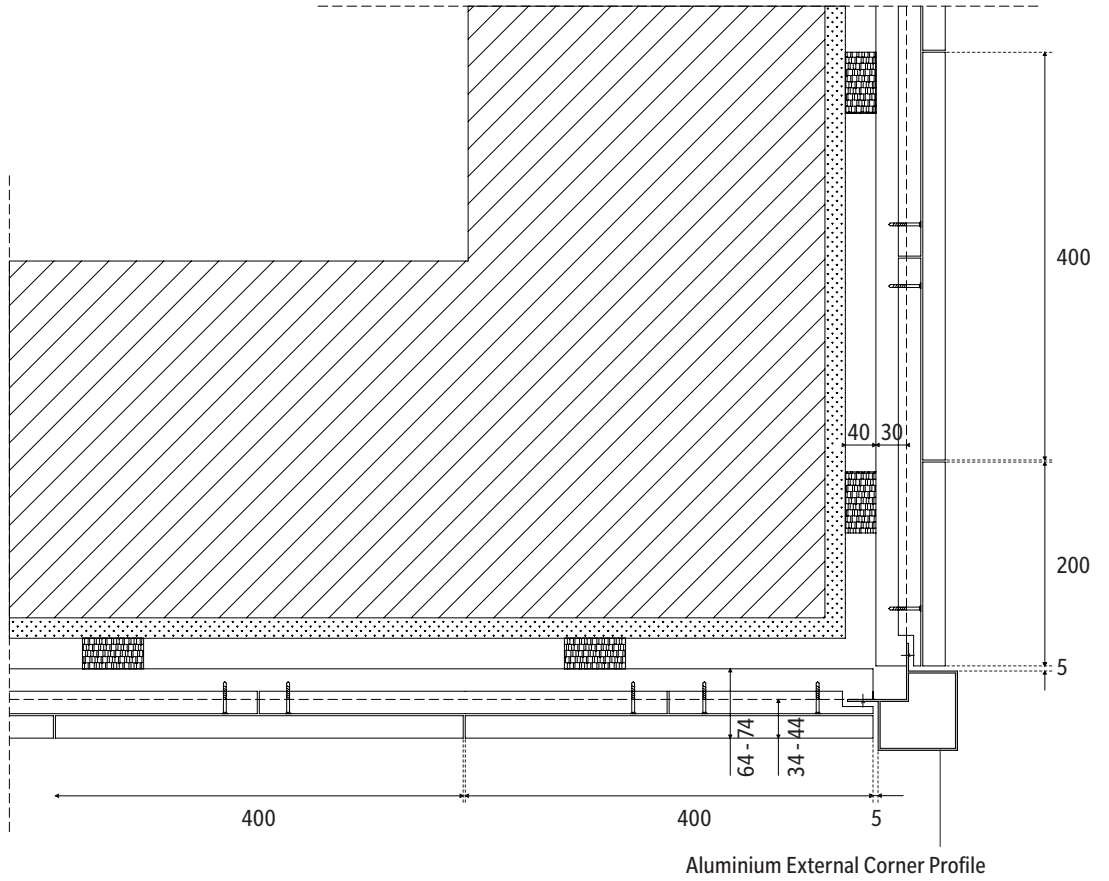
Example Transition to ETICS

(Dimensions in mm)

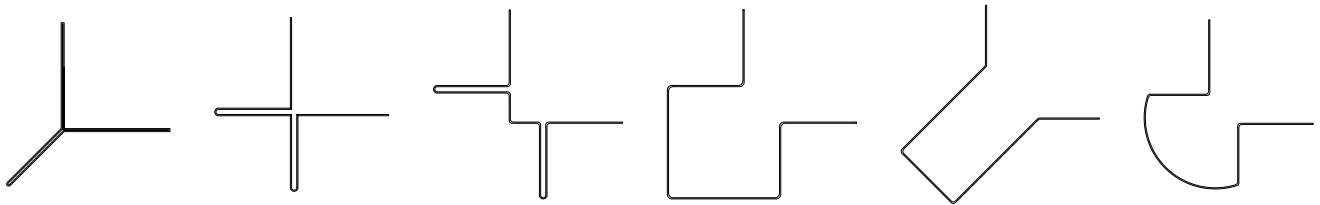


Corner Solutions

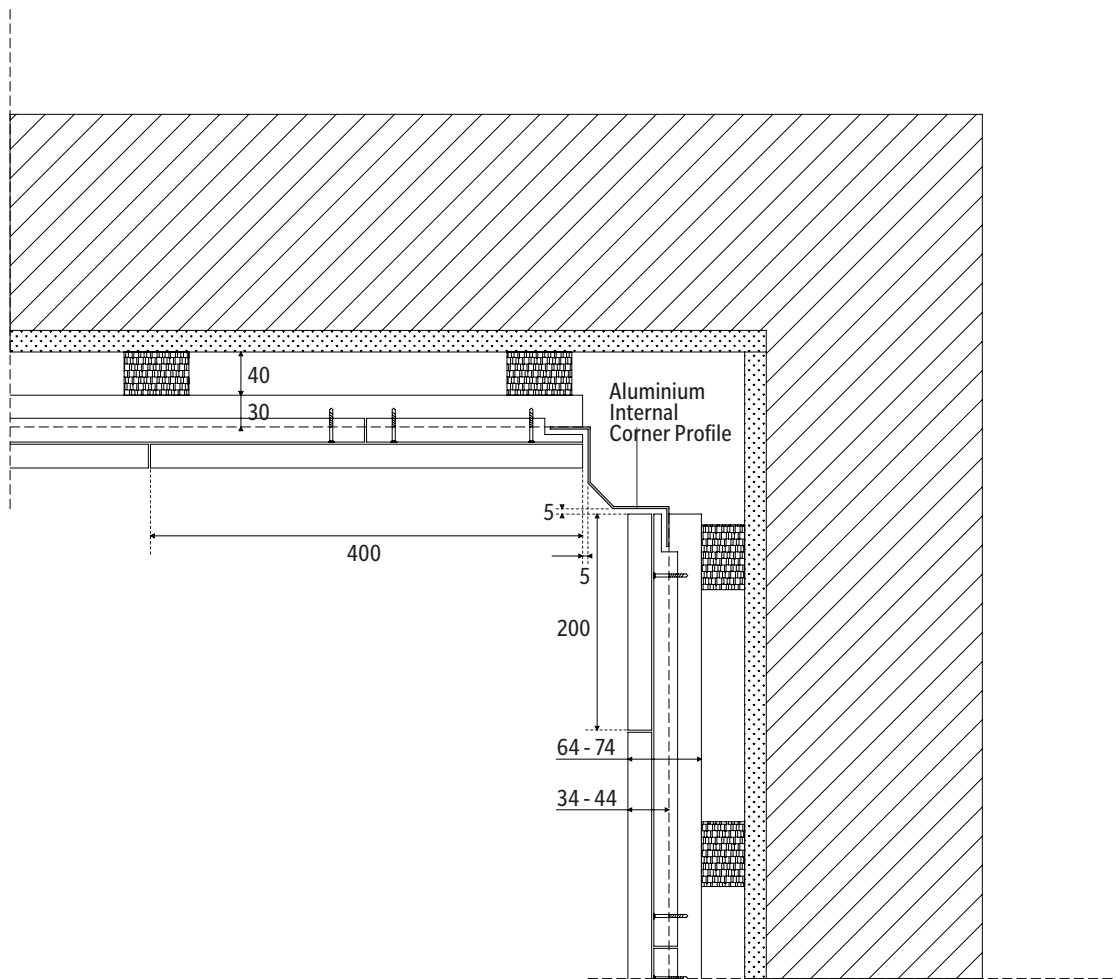
External Corner
(Dimensions in mm)



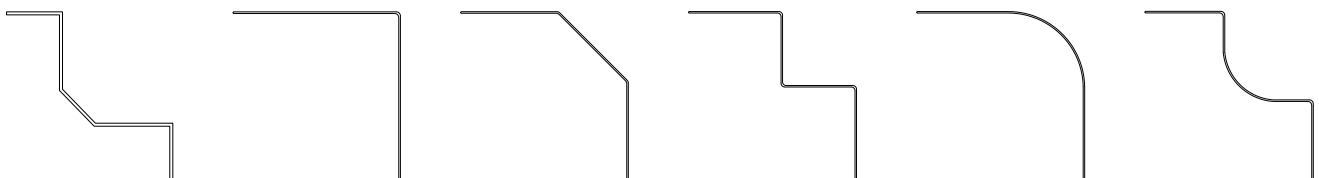
Available Aluminium External Corner Profiles



Internal Corner
(Dimensions in mm)



Available Aluminium Internal Corner Profiles



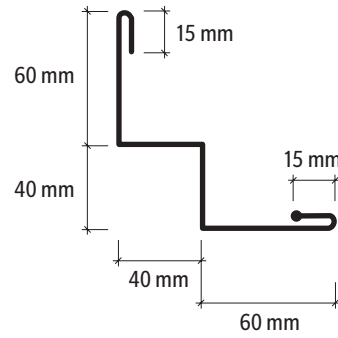
Note:

Alternatively, building corners can also be executed with panels cut to a mitre.

Metal Connection Profiles

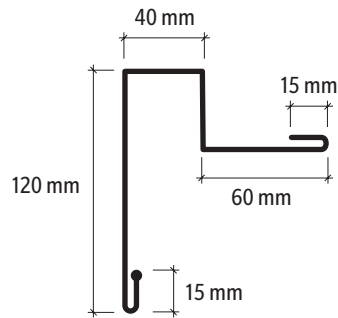
Internal Corner

Aluminium
 Thickness: 0,8 mm
 Length: 2000 mm
 Colour shade as agreed
 Coating in accordance with EN1369
 Bend: 90°



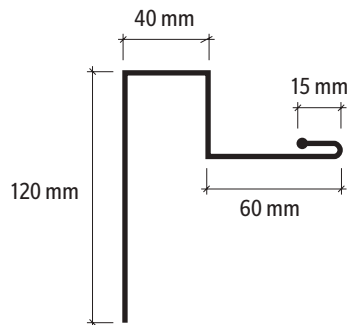
External Edge / Termination (Box)

Aluminium
 Thickness: 0,8 mm
 Length: 2000 mm
 Colour shade as agreed
 Coating in accordance with EN1369
 Bend: 90°



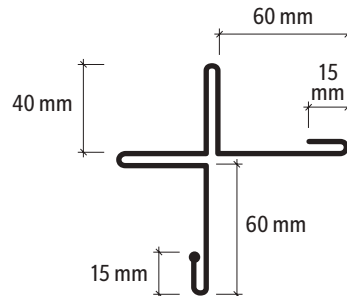
Reveal (Box)

Aluminium
 Thickness: 0,8 mm
 Length: 2000 mm
 Colour shade as agreed
 Coating in accordance with EN1369
 Bend: 90°



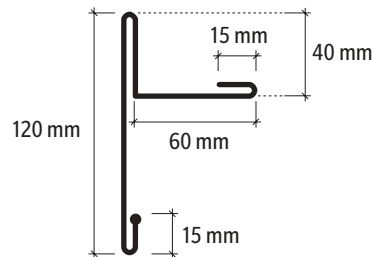
External Corner

Aluminium
 Thickness: 0,8 mm
 Length: 2000 mm
 Colour shade as agreed
 Coating in accordance with EN1369
 Bend: 90°



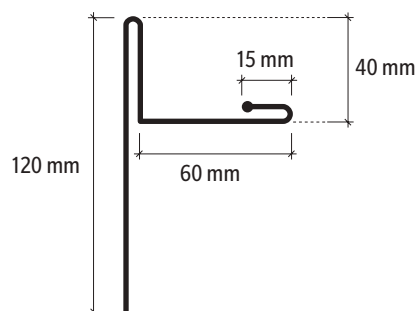
External Edge / Termination (Slim)

Aluminium
 Thickness: 0,8 mm
 Length: 2000 mm
 Colour shade as agreed
 Coating in accordance with EN1369
 Bend: 90°



Reveal (Slim)

Aluminium
 Thickness: 0,8 mm
 Length: 2000 mm
 Colour shade as agreed
 Coating in accordance with EN1369
 Bend: 90°



Notes:

The requirements of national regulations must be observed, for example the ZVDH regulations, ÖNORM, SIA standards, the IFD facade guideline, the Model Building Code (MBO), as well as national and European standards (DIN 18516 1).

The contractor is responsible for processing and installing the products in accordance with the installation instructions and, as a result, for ensuring the watertightness of the facade.

Structural design for the ventilated rainscreen facade must be carried out. This can only be performed by a structural engineer. Anchor pull out tests must be carried out for each project to ensure load transfer into the masonry or substrate.

Wienerberger GmbH accepts no liability for damage resulting from improper installation.







All contributions and illustrations in this brochure are protected by copyright. Unless expressly stated otherwise, reproduction of the contents is not permitted. Photocopies from this brochure may be made for private, non-commercial use only. Any reproduction or distribution for professional purposes is strictly prohibited.

Status: March 2026
KPTIMOT/EN/03.26/PDF
Colours may vary from the actual product.

Wienerberger GmbH, Oldenburger Allee 26, 30659 Hannover, Germany
T +49 511 610 70-0, E info.de@wienerberger.com, wienerberger.de