

Application guidelines for Bluclad Proboard as a render base board

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1 Introduction

GENERAL

These guidelines cover the installation of Bluclad Proboard on a vertical support structure for direct plastering applications on ventilated exterior walls

PRODUCT DESCRIPTION

Bluclad Proboard 10 mm

SCOPE OF THE GUIDELINES

These guidelines are valid for the applications of Bluclad Proboard listed below:

- Base sheet for exterior rendering in ventilated facades on a timber support structure,
- Base sheet for exterior rendering in ventilated facades on a support structure in galvanized steel

The use of Bluclad Proboard as a base board for exterior render in ventilated facades on an aluminum support structure is not permitted.

The use of Bluclad Proboard as a base board for exterior rendering in a non-ventilated application is not permitted.

NORMATIVE FRAMEWORK

The normative references are given for informational purposes only.

EN 1991-1-4	Eurocode 1: Loads on structures - Part 1-4: General loads - Wind loads
EN 12467	Flat fibre cement boards - Product specifications and test methods.
ETAG004	External thermal insulation composite systems with rendering
ETAG034	Kits for external wall claddings - Part 1: Ventilating cladding kits comprising cladding components and associated fixings.

2 Description Bluclad Proboard product range.

BLUCLAD PROBOARD AT A GLANCE

- 25 years of proven experience in the UK market,
- Very strong, stable and durable material (EN 12467 class 2 cat B),
- Large number of approved exterior plasters,
- High impact resistance,
- Non-combustible material (fire reaction: A2-s1,d0), suitable for high-quality fire-resistant facade systems,
- Easy installation: no special joint treatment required before plastering,
- Bluclad Proboard is hydrophobized and can be exposed to outdoor air for up to 12 weeks before rendering,
- Environmental Product Declaration (EPD) available according to ISO 14025.

BOARD

Description

Bluclad Proboard is made from cement, selected mineral fillers including mica (for extra high dimensional stability and low hydric movement), organic reinforcing fibers and functional additives. The sheets have undergone hydrophobic treatment on the front and back. The board is square edged on all sides.



Aspect

- Bluclad Proboard is beige in color and exhibits on the surface shiny particles of mica crystals visible on both sides. Stains in the surface, for example brown or white stains inherent in the autoclaving process, are occasionally possible and are inherent in production.
- The plate has a smooth front side and slightly rougher back side. The board is installed with the smooth side facing outward (the rough side with the CE mark should be mounted against the support structure).

Available sizes

- Thickness: 10 mm
- Available in 1200 mm wide with lengths of 2400mm

Application:

- Base sheet for exterior renders on a wood or metal support structure for ventilated facades,
- Base sheet for exterior renders on a wood or metal support structure for ventilated exterior ceilings (not covered in this guide)
- Support sheet for stone strips on a wood or metal support structure (not covered in this guide)

Conformance:

- Bluclad Proboard is CE marked according to EN 12467:2012+A2:2018 "Flat fiber cement boards - Product specifications and test methods," Class 2, Category A.

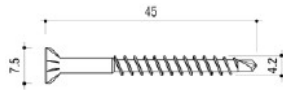
National Certificates:

- Germany: Z-31.4-160. Approved for use as load-bearing element for timber frame structures according to Eurocode 5.

ACCESSORIES

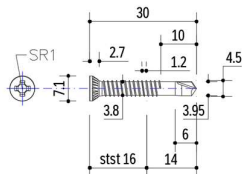
The following accessories for Bluclad Proboard are available:

BLUCLAD PROBOARD WOOD SCREW 4.2x45 DP SQD A2/304



For fastening Bluclad Proboard to wood studs. It is a countersunk head screw with milling ribs with a length of 45mm, a shank diameter of 4.2mm diameter and a head diameter of 7.5mm.

BLUCLAD PROBOARD METAL SCREW 4.5x30 DP SR1 A2-AISI-201 Cu



For fastening Bluclad Proboard to galvanized steel support structures (1 to 2 mm thick). It is a self-drilling bi-metal screw with countersunk head and milling ribs, with a length of 30 mm, a shank diameter of 4.5 mm and a head diameter of 7.1 mm. The screw has a Stadler SR1 head (compatible with a PH2).

ADJUSTABLE BRACKET 150mm GALVA



Adjustable bracket for anchoring the vertical wooden support batten of to structures with uneven back (e.g. uneven masonry walls) and to create an insulation and ventilation cavity (60 to 120 mm to the back of the batten).

THERMOSTOP 50X60X5MM PVC



A perforated plate in PVC to prevent cold bridges. To be used with the adjustable bracket to avoid cold bridges between the existing rear structure and the bracket.

PERFORATED CLOSE PROFILE 50/30x2,5m ALU



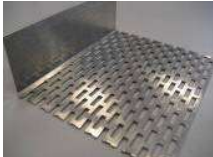
0.8 mm thick perforated aluminum profile used to seal the 50 mm cavity in the façade to prevent birds and pests from entering. The raised leg of the sealing profile is clamped between the wooden support batten and Bluclad Proboard.

PERFORATED CLOSED PROFILE 70/30x2,5m ALU



0.8 mm thick perforated aluminum profile used to seal the 70 mm cavity in the façade to prevent birds and pests from entering. The raised leg of the sealing profile is clamped between the wooden support batten and Bluclad Proboard.

PERFORATED CLOSED PROFILE 100/40x2,5m ALU



0.8 mm thick perforated aluminum profile used to seal the 70 mm cavity in the façade to prevent birds and pests from entering. The raised leg of the sealing profile is clamped between the wooden support batten and Bluclad Proboard.

3 Design considerations

VERIFICATION OF THE MECHANICAL STRENGTH AND STABILITY OF THE FACADE

In order to meet the basic requirement of the construction work with regard to the mechanical resistance and stability of the façade, the following aspects were considered when fixing Bluclad Proboard against a timber support structure :

- The verification of the mechanical resistance and durability of Bluclad Proboard under its own weight and wind loads, in particular:
 - The flexural strength of Bluclad Proboard
 - The pull-out and pull-through resistance of the fasteners used to attach Bluclad Proboard to the support structure
- Verification that the deflection of the Bluclad Proboard clad with stone strips is within predetermined limits.

The verifications listed above define .

- the maximum center distances between the vertical support slats
- The maximum center distances between fasteners.

We recommend limiting the height of the facade against which the Bluclad Proboard is attached to a maximum of 30m.

Material properties and characteristic values

Bluclad Proboard

Characteristic bending strength \perp	$f_{m,90,k}$	14,0	N/mm ²
Characteristic bending strength \parallel	$f_{m,0,k}$	8,5	N/mm ²
Elasticity modulus \perp	$E_{mean,90}$	9.000	N/mm ²
Elasticity modulus \parallel	$E_{mean,0}$	7.800	N/mm ²

Characteristic load capacity for fastening for axial loads (according to EN 1995-1-1)

Characteristic pull-out capacity	$F_{ax,Rk}$		Ref
Bluclad Proboard screws	500	N	Z-31.4-160
Staples 50 / 11.3 / 1.8	265	N	EN 1995-1-1

Characteristic load capacity for attachment for lateral loads (according to EN 1995-1-1)

Characteristic pull-out capacity	$F_{v,Rk}$		Ref
Bluclad Proboard screws	695	N	Z-31.4-160
Staples 50 / 11.3 / 1.8	415	N	EN 1995-1-1

Modification factors

k_{mod} for class 2, instantaneous load			Ref
Bluclad Proboard	k_{mod}	0,60	DoP
wood	k_{mod}	0,9	EN 1995-1-1
Bluclad Proboard + wood	k_{mod}	0,734	EN 1995-1-1
k_{mod} for class 2, permanent load	k_{mod}		
Bluclad Proboard	k_{mod}	0,2	DoP
wood	k_{mod}	0,6	EN 1995-1-1
Bluclad Proboard + wood	k_{mod}	0,346	EN 1995-1-1
k_{def} Bluclad Proboard (for class 2)	k_{def}	4	DoP

Partial safety factors

Material safety factor

Partial safety factor for material	γ_M	1,30
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Partial safety factors for loads

Partial safety factors for loads			Explanation
Permanent load adverse	$\gamma_{G,sup}$	1,35	For lateral load verification
Variable load on the fasteners	γ_Q	1,25	To verify the attachment of the cladding panels to the supporting structures
Changing loads on the gable plates	γ_Q	1,1	For verification of facade panels

WIND LOAD

Wind loads on buildings are defined in EN 1991-1-4 (Eurocode 1) and its national annexes.

The wind load on a facade depends on several factors, such as the building location, shape, height, orientation, terrain category, position of the facade on the building, wind permeability of the cladding, and air flow in the ventilation cavity.

Only a project-specific analysis, performed by qualified engineers on the building as a whole, can determine the actual design wind pressures (design) to be taken into account when designing facades.

The design wind pressures considered in these guidelines should be compared to the design wind pressure in the project specification.

The following paragraphs provide estimates of the maximum design wind pressure to be considered for the vertical walls of rectangular buildings.

Wind loads on façade claddings.

In order to determine the maximum design wind pressure, the cladding consisting of stone strips glued against a Bluclad Proboard support board is considered a "windproof" cladding over a non-insulated ventilated cavity.

The design wind pressure on the slab is obtained from the combination of external wind pressure (C_{pe}) and the pressure within the ventilated cavity ($C_{pi,a}$).

The design wind pressure $F_{d(w)}$ is defined by

$$F_{d(w)} = \gamma_Q \cdot q \cdot C_{p(z),p}$$

with

γ_Q : partial load factor,

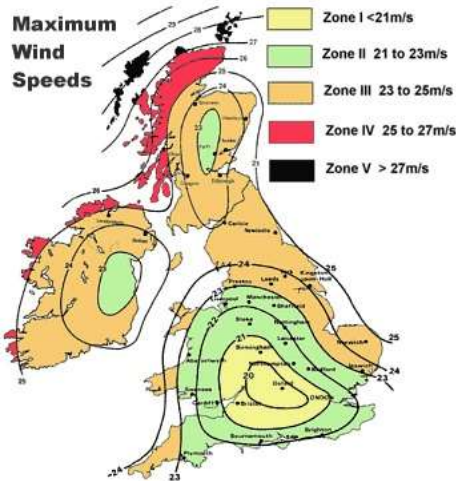
$q_{p(z)}$: peak wind pressure,

C_p : local pressure coefficient, ($C_p = -2.3$ for a "windproof" cladding over a non-insulated ventilated cavity).

The tables below provide an estimate of the design wind pressure on the Bluclad Proboard considered as a windproof cladding over a non-insulated cavity for Belgium and the Netherlands.

The design wind pressure is given as a function of façade height, terrain category and wind speed.

Base wind speeds UK



Impermeable cladding, non insulated air cavity
 Design wind pressure, N/m²

Terrain category	Facade height	2m	3m	4m	6m	8m	10m	12m	15m	22m	30m
coast	0										
Level area	I										
Rural area	II	3m	4m	6m	7m	10m	12m	17m	21m	26m	30m
Urbanised areas	III	5m	9m	12m	18m	21m	27m	30m			
Cities	IV	15m	25m	30m							

UK	22 m/s	-896	-1141	-1253	-1419	-1495	-1647	-1731	-1886	-2002	-2081	-2157	-2240	-2412	-2529
		880	1121	1231	1395	1469	1618	1700	1853	1968	2046	2119	2200	2371	2529
23 m/s	-979	-1247	-1370	-1551	-1634	-1800	-1892	-2061	-2189	-2275	-2358	-2448	-2637	-2765	
	962	1225	1345	1525	1605	1769	1858	2025	2151	2236	2316	2404	2592	2765	
24 m/s	-1066	-1358	-1491	-1689	-1779	-1960	-2060	-2244	-2383	-2477	-2567	-2665	-2871	-3010	
	1048	1334	1465	1661	1748	1926	2024	2205	2342	2434	2522	2618	2822	3010	
25 m/s	-1157	-1474	-1618	-1833	-1931	-2126	-2235	-2435	-2586	-2688	-2786	-2892	-3115	-3266	
	1137	1448	1590	1802	1896	2089	2196	2393	2542	2641	2737	2841	3062	3266	
26 m/s	-1251	-1594	-1750	-1983	-2088	-2300	-2417	-2634	-2797	-2907	-3013	-3128	-3370	-3533	
	1230	1566	1719	1949	2051	2260	2375	2588	2749	2857	2960	3073	3312	3533	
27 m/s	-1349	-1719	-1888	-2138	-2252	-2480	-2607	-2840	-3016	-3135	-3249	-3373	-3634	-3810	
	1326	1689	1854	2102	2212	2437	2561	2791	2964	3081	3192	3313	3572	3810	
28 m/s	-1451	-1849	-2030	-2299	-2422	-2667	-2803	-3054	-3244	-3372	-3494	-3628	-3908	-4097	
	1426	1816	1994	2260	2379	2621	2754	3002	3188	3313	3433	3563	3841	4097	
29 m/s	-1557	-1983	-2178	-2467	-2598	-2861	-3007	-3276	-3479	-3617	-3748	-3891	-4192	-4395	
	1530	1948	2139	2425	2552	2812	2954	3220	3420	3554	3682	3823	4120	4395	
30 m/s	-1666	-2122	-2330	-2640	-2780	-3062	-3218	-3506	-3724	-3871	-4011	-4164	-4486	-4703	
	1637	2085	2289	2595	2731	3009	3162	3446	3660	3804	3941	4091	4409	4703	

As an example (see ----- in the table), the maximum design wind pressure on a 10 m facade at the coast would be:
 Terrain category = 0
 Wind speed = 26 m/s
 Wind pressure = 2857 N/m² (-2907 N/m² wind suction).

4 General processing instructions, handling and sawing

These instructions apply only when Bluclad Proboard is used as a backing board for decorative renders on ventilated exterior walls.

HANDLING

- Bluclad Proboard boards are delivered on pallets. The boards must be transported under a tarpaulin.
- The boards should be stacked horizontally on a flat surface in a dry and ventilated area.
- When sheets are stored outside, they should always be protected from rain by a tarpaulin or plastic cover.
- If the sheets are exposed to moisture during storage, remove the packaging and allow the plates to dry completely before use.
- We recommend storing the boards in their final location 24h min before beginning installation to allow the board to balance its internal moisture content with its environment.
- Sheets should always be carried vertically by 2 persons.

SAWING AND DRILLING

- Sawing and drilling must be done in a dry and ventilated environment.
- Drilling and saw dust should be immediately removed from the plate with a dry microfiber cloth to prevent permanent staining.
- Bluclad Proboard can be sawn with either a circular saw or a hand saw.
- When machining the sheet, the sheet must be fully supported such that it does not deflect or bow. The saw table must be very stable and must not vibrate. The sheet must not be under tension during sawing. A vibration and tension-free board during sawing is necessary for a good cut.
- For saws: the following tools can be used:
 - Universal saw blade on high-speed stationary saws or manual circular saw with rail guide, available diameters: 160, 190, 225 and 300 mm (available from Leitz-Service),
 - Jigsaw with carbide tooth blade type T141 HM from Bosch,
 - Diamond saw blade with teeth on stationary saw machines with fast rotation or handheld circular saw with guide,
- Before drilling: the board must be supported around the hole to be drilled (e.g. by a wooden surface). The following tools can be used:
 - for holes: HSS twist drill (or all colbalt) with a nose angle of 60°.
 - For round openings: hole saw with carbide teeth (e.g. type Pioneer from Metabo).

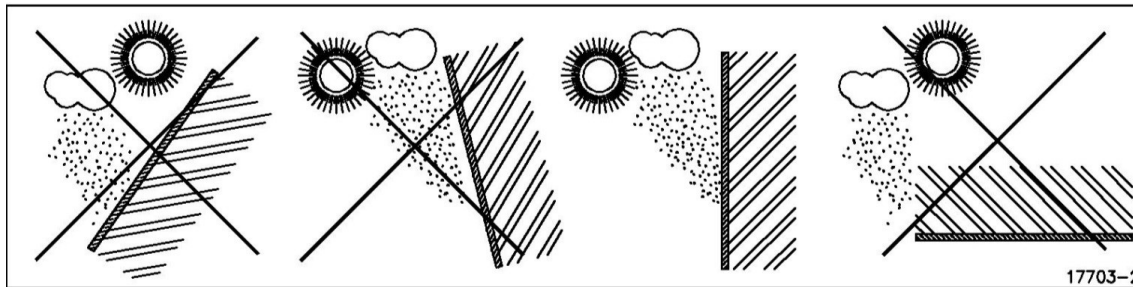
HEALTH AND SAFETY

- Refer to the Bluclad Proboard product data sheet and safety data sheet.
- When machining Bluclad Proboard indoors (sawing or drilling), an efficient dust extraction system must be used to capture the dust particles. If dust extraction is not efficient or if cutting is done with a handsaw, the operator must wear dust masks of type FFP2 or better according to EN149:2001.

5 Placement Instructions

GENERAL

- We recommend limiting the height of the facade against which the exterior render is applied to Bluclad Proboard to a maximum of 30m.
- When exposed to weather conditions (rain, sun), the boards should only be mounted on a vertical support structure.



INSTALLATION OF THE SUPPORT STRUCTURE

General

Bluclad Proboard can be fixed against support structures in wood or in galvanized steel.

- The maximum center distance between support battens or profiles for Bluclad Proboard is 627 mm but should be determined by the project engineer based on the occurring wind load.
- When conceiving the support structure, keep 3 mm of clearance between the boards.
- A net ventilation opening of at least 100 cm²/lm should be provided at the bottom and top of the façade, as well as window and door openings, to ensure uninterrupted natural air flow behind the Bluclad Proboard. In case perforated termination profiles are used, the perforation degree of the profile must be taken into account.
- We recommend an open cavity with a minimum width as shown in the table below.

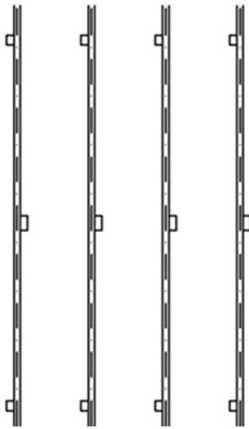
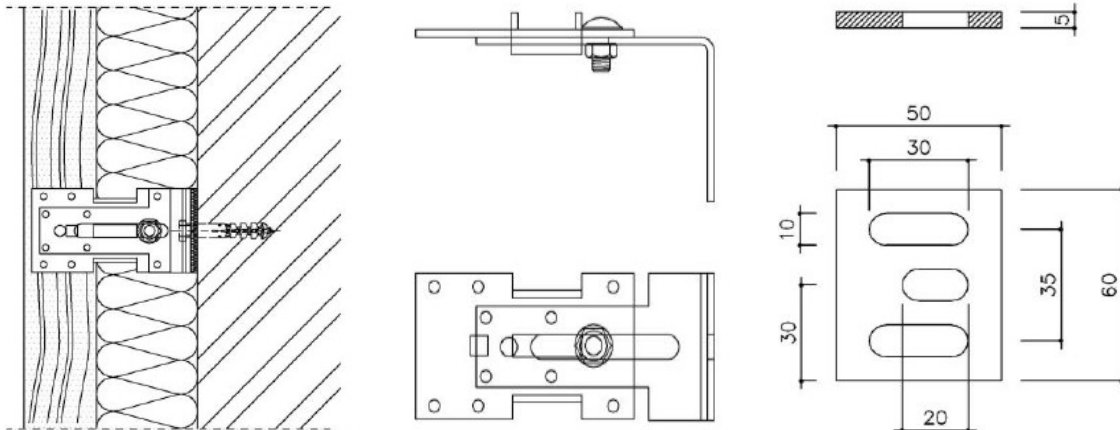
Gable height	0-3 m	3-30 m
Minimum width of open cavity	25 mm	30 mm

Support structure in wood

- Bluclad Proboard boards are fixed against a vertical support structure.
- The timber structure to which Bluclad Proboard is mounted must be designed in accordance with EN 1995-1-1 (Eurocode 5) to accommodate all loads acting on the façade, such as wind loads (defined in accordance with EN 1991-1-4) and the dead weight of the boards and external render.
- The wood meets at least strength class C18 according to EN 338. When using less durable wood, such as softwood, the wood should be treated. The wood should also be protected with a suitable foil in EPDM, black PE or equivalent, between the batten and Bluclad Proboard.
- The minimum width of the wooden batten is 65 mm.
- The Bluclad Proboard boards can be fixed against the wooden support structure using the Bluclad Proboard wood screws or staples.

Recommendations for the wooden support structure when fixing against an existing masonry wall

- If the support structure is fixed against an existing masonry wall, adjustable brackets are preferred.
- In this case, the insulation is placed after the installation of the adjustable brackets
- It is recommended to apply a Thermostop pad between the adjustable brackets and the wall.
- The wooden support slats should have a minimum thickness of 50 mm.



- To improve the stability of the support structure, the adjustable brackets are installed staggered alternately to the left and right of the support bar.
- The row of adjustable brackets should also stagger for each adjacent batten.
- The type of attachment for the adjustable bracket (mounting with screws and dowels) must be adapted to the structure. (Please contact the anchoring supplier directly).
- A minimum pull-out resistance of 3 kN is required for this anchorage in masonry.
- The vertical center distance between adjustable brackets should be determined according to the wind load on the façade and the load capacity of the anchors.

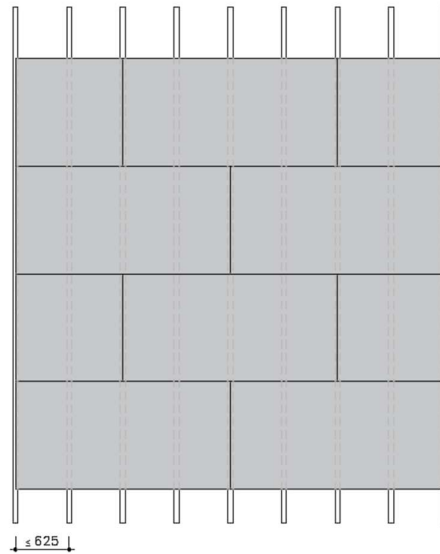
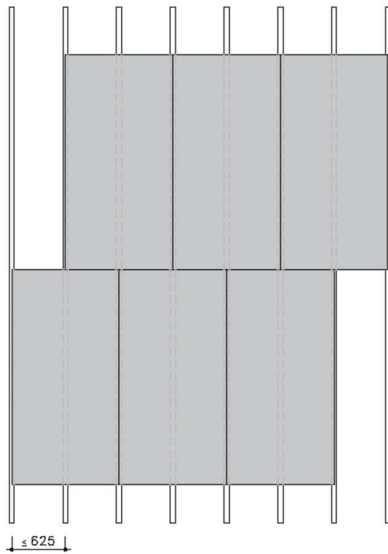
Support structure in galvanized steel

- The galva support structure must be designed in accordance with EN 1993-1-3 (Eurocode 3) to properly accommodate the loads, e.g. wind loads.
- The galva support structure shall meet the classification of steel for structures with minimum test strength according to EN 10346 (e.g. S250GD).
- The minimum flange width of the steel profile is 50 mm.
- The minimum flange thickness of the steel profile is 1.5 mm.
- The galva support structure can be mounted either horizontally or vertically. In the case of horizontal mounting, the horizontal center distance is maximum 400 mm.

FIXING BLUCLAD PROBOARD TO THE SUPPORT STRUCTURE.

General

- The boards should be installed with a 3 mm space between the edges of the boards.
- The board is installed with the smooth side facing outward (the rough side with the CE mark should be mounted against the support structure).
- The plates can be installed either vertically ("portrait") or horizontally ("landscape"). However, the relevant mechanical properties must then be taken into account in the design.
- The vertical joints should stagger.
- The boards are placed so that the four corners of the boards do not coincide. Continuous vertical joints should be avoided; horizontal continuous joints are permitted.
- To prevent water from penetrating the joints before the render system is applied, an approved silicone sealant can be applied to the joints.
- Silicone sealant should be used on complex details to prevent water penetration.



Fastening against support structures in wood

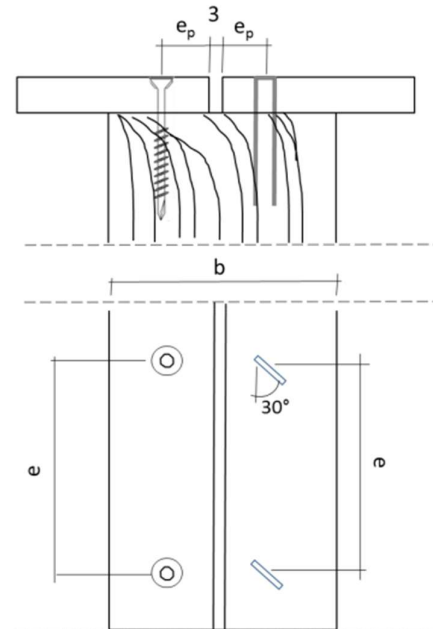
- Bluclad Proboard can be fastened against wood support structures with the Bluclad Proboard wood screws or staples.
- The vertical sheet edges should always be supported by a wooden support slat.
- The minimum width (b) of the wooden batten is 65 mm.

Screw recommendations

- Use Bluclad Proboard wood screws type 4.2x45-DP-SQD-A2/304 with countersunk head to fasten the boards to the wood support structure.
- The horizontal distance (e_p) between screw and vertical board edge is 15 mm.
- The vertical distance between the screw and the horizontal board edge is 50 mm
- The center distance between the screws depends on the maximum permissible screw pull-through values, the characteristic wind load and the center distance between the wood studs.

Stapling recommendations

- Bluclad Proboard can also be fastened with staples against a timber frame; for this, use staples with a diameter of 1.8 mm and a minimum length of 40 mm (type Senco, Haubold).
- Staples should be placed at a 30° angle to the vertical reference.
- The horizontal distance (e_p) between the center of the staple and the vertical board edge should be 15 mm.
- The vertical distance between the staple and the horizontal board edge is 50 mm
- The center distance between staples depends on the maximum permissible pull-through values of the staple, the characteristic wind load and the center distance between the wood studs.



Fastening against support structures in galvanized steel

Bluclad Proboard can be fixed with the recommended screws on a support structure in galvanized steel with a thickness of 1.5 to 2 mm.

Screw recommendations

- Use Bluclad Proboard metal screws type 4.5x30-DP-SR1 A2-AISI-201 with countersunk head to fasten the boards against the galvanized steel profiles.
- The horizontal distance between screw and vertical board edge is 15 mm.
- The vertical distance between the screw and the horizontal board edge is 50 mm
- The center distance between the screws depends on the maximum permissible screw pull-through values, the characteristic wind load and the center distance between the steel profiles.

FINISH ON BLUCLAD PROBOARD

General

- It is not necessary to reinforce the joint before applying the render system.
- It is recommended that the rendering system be applied after a period of up to 3 months after installation of the Bluclad Proboard on the structure. This period can be extended to six months if an approved silicone sealant is applied to the joints and screw heads immediately after installing the panels.
- Consult the manufacturer and/or supplier of the exterior render to ensure their render system is compatible with the Bluclad Proboard, in terms of workability and adhesion, as well as any measures to be taken at the joints in order to prevent cracking of the finishing coat as a result of hygric, thermal and other movements in the construction.

Surface expansion joint

- Follow the render manufacturer's recommendations, as it depends on the finish layer of the render system. The typical width of an expansion joint at the surface is 5 mm (filled with flexible sealant).

Structural expansion joint

- Structural expansion joints with Bluclad Proboard must coincide with the structural expansion joint of the building structure. The maximum distance between structural expansion joints with Bluclad Proboard is 33 m. Follow the render manufacturer's recommendations for joint treatment.

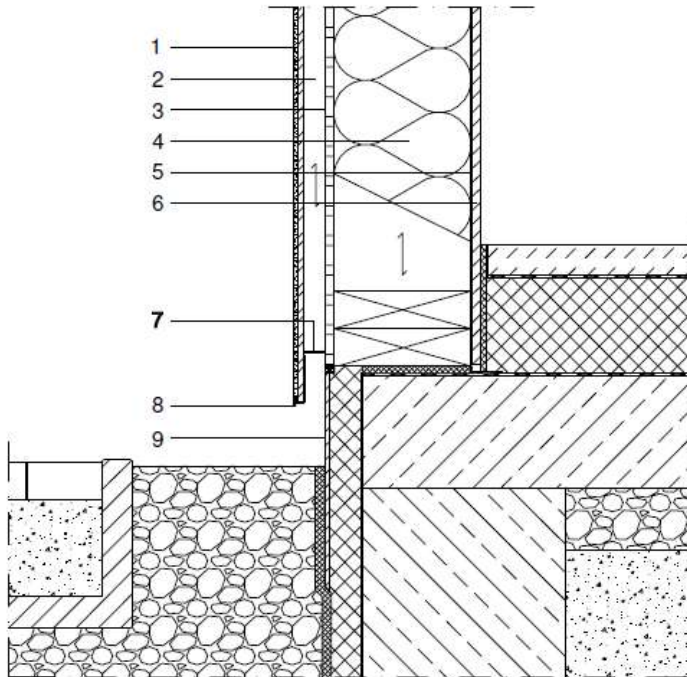
Render finishing

- Allow the board to equilibrate its moisture content with the environment for a minimum of 24 hours after installation before applying the render system.
- Bluclad Proboard does not require any joint treatment prior to application of the render system
- The render system should be sufficiently flexible to accommodate thermal and hygric movements of the slab. Thin polymer-modified flexible render is preferred.
- The render system must be applied according to the render manufacturer's instructions. The render system typically consists of an optional adhesive primer, a base layer (base mortar or "base coat"), a reinforcement mesh, and a decorative render ("top coat").
- Follow the latest application instructions from the render manufacturer.

CONSTRUCTION DETAILS

Base sheet for exterior render on ventilated facades on a timber support structure

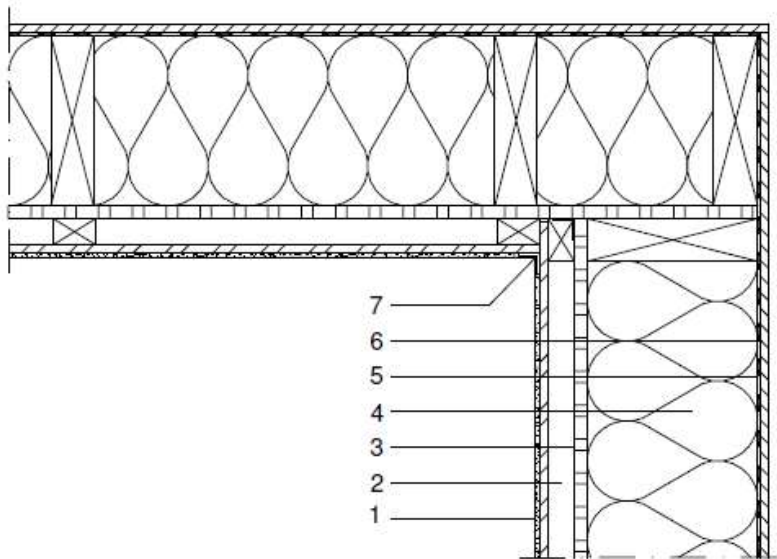
Base detail



Legend:

1. Bluclad Proboard with exterior render system
2. Wood support structure in the cavity
3. Vapor permeable waterproofing layer
4. Insulation
5. Vapour barrier
6. Interior finish board.
7. Perforated sealing profile
8. Drip edge profile
9. Insulated upstand

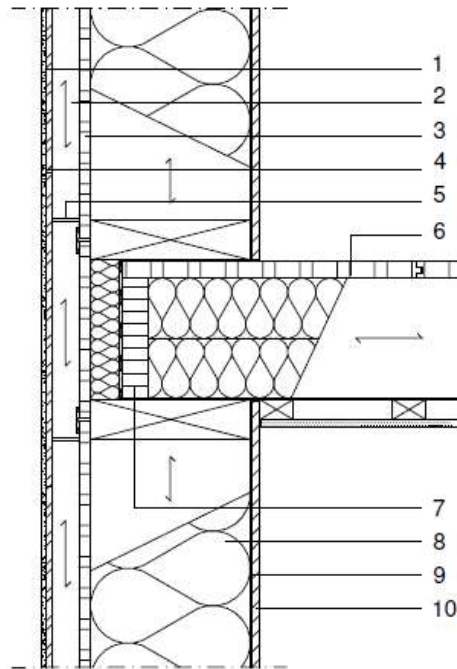
Internal corner detail



Legend:

1. Bluclad Proboard with exterior render system
2. Wooden support structure in ventilation cavity
3. Vapour permeable waterproofing layer
4. Insulation
5. Vapour barrier
6. Interior finishing board
7. Inner corner profile

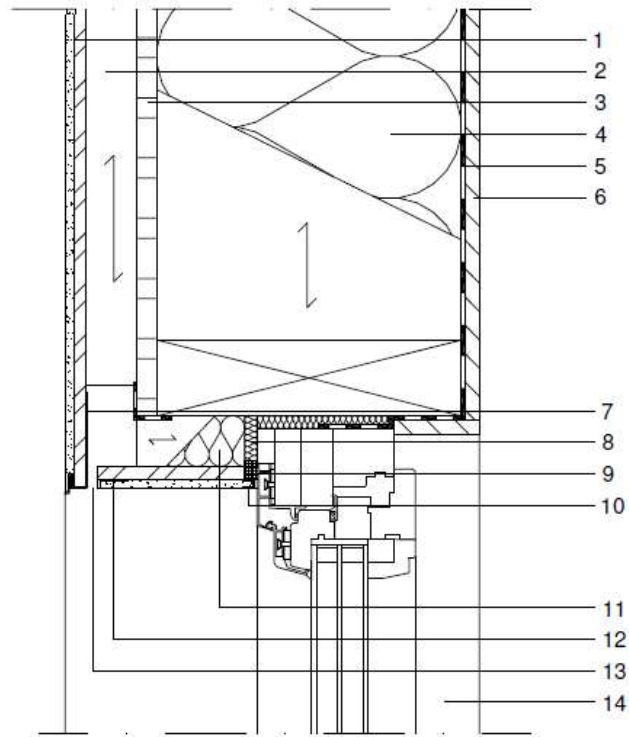
Connection at floor level



Legend:

1. Bluclad Proboard with exterior render system
2. Wooden support structure in the cavity
3. Vapour permeable waterproofing layer
4. Horizontal joints
5. Wooden support structure with 5 mm joint
6. Structural floor plate, e.g. Duripanel B1
7. Closure to joist end
8. Insulation
9. Vapour barrier
10. Interior finishing board

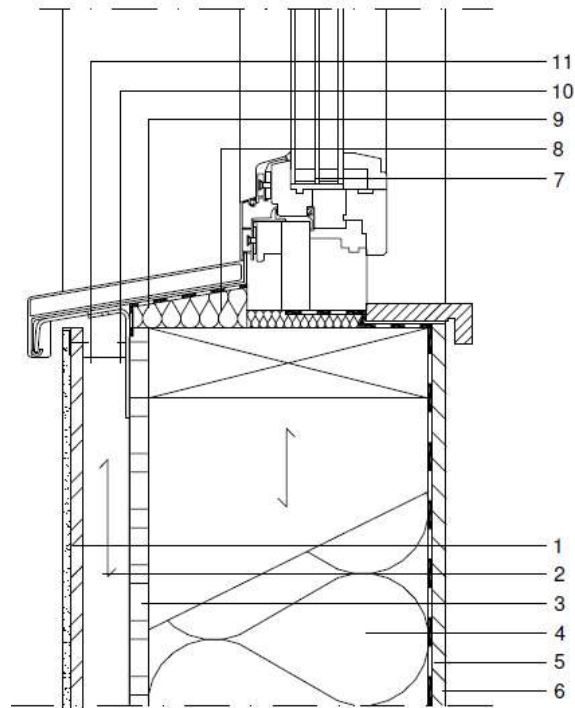
Detail above window opening



Legend:

1. Bluclad Proboard with exterior render system
2. Wooden support structure in the cavity
3. Vapour permeable waterproofing layer
4. Insulation
5. Vapour barrier
6. Interior finishing board
7. Drip edge profile
8. Insulation or layer of still air of 8 mm
9. Sealing tape
10. J or U profile
11. Hard insulation
12. Stop profile/bead
13. Air cavity min. 6 mm
14. Window Frame

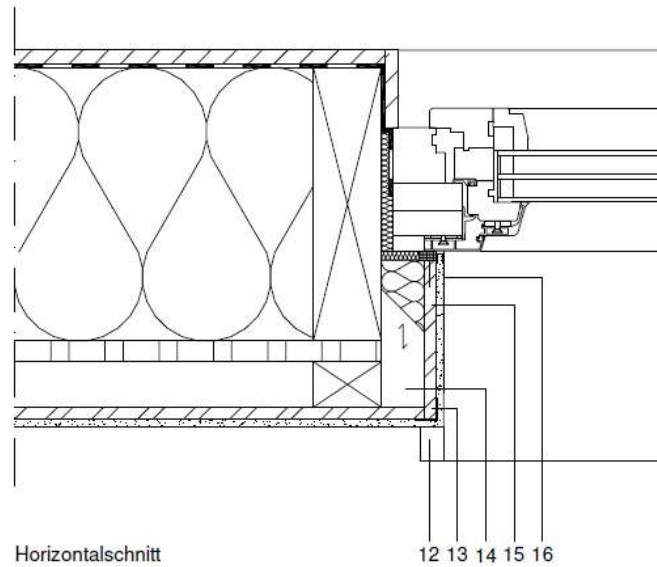
Window cill detail



Legend:

1. Bluclad Proboard with exterior render system
2. Wood support structure in the cavity
3. Vapor permeable waterproofing layer
4. Insulation
5. Vapour barrier
6. Interior finish board, e.g. Siniat plasterboard
7. Window Frame
8. Tear-resistant sealing membrane or tape
9. Window sill with watertight end pieces
10. Window support profile
11. Stop profile with at least 5 mm clearance from the window frame

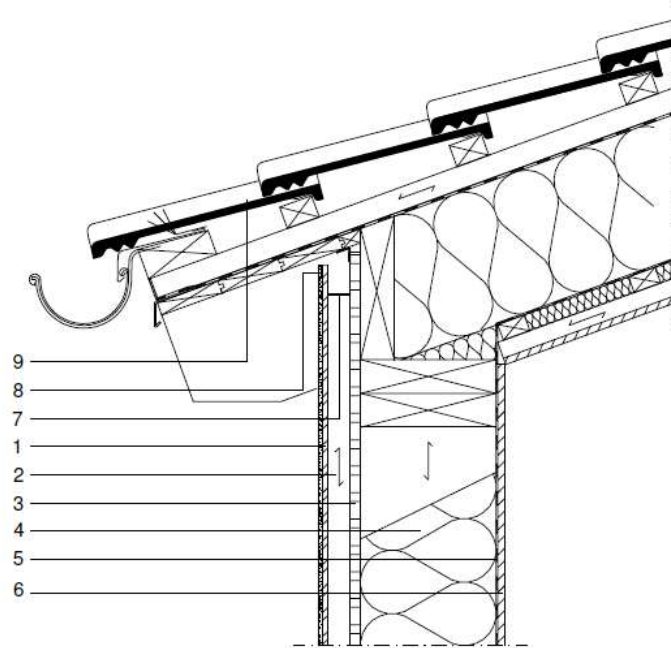
Window jamb detail



Legend:

- 12. End piece window sill
- 13. Corner profile
- 14. Insulation between support slats
- 15. Sealing tape
- 16. J or U profile

Eaves detail/top of facade



Legend:

1. Bluclad Proboard with exterior render system
2. Wood support structure in the cavity
3. Vapour permeable waterproofing layer
4. Insulation
5. Vapour barrier
6. Interior finishing board
7. Perforated sealing profile
8. Render connection profile, distance from top ≥ 5 mm
9. Roof structure

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