FEBENG BRICK BOARD · BB-13

Real brick façades, laid straight and fast.



RESIDENTIAL TOWER · BRICK-SLIP RAIN-SCREEN FAÇADE ON FEBENG BRICK BOARD

The FEBENG Brick Board is a pre-channelled, glass-fibre reinforced concrete carrier board for brick slips. Its integral channels set the gauge of every course, so the façade is laid straight, level and fast on a mechanically fixed, ventilated sub-frame — with no wet bedding of the board and no extra load on the structure.

CARBONFIB BV · WWW.FEBENG.COM · SALES & DISTRIBUTION PARTNER (EU): KREDAS, BREDA, THE NETHERLANDS

WHY A CHANNELLED BOARD

The gauge is in the board.

A brick-slip façade stands or falls with the straightness of its courses. On the FEBENG Brick Board the channels are cast in: every slip drops into its course at the correct gauge, so installers lay straight and level without string lines or spacers, and the result is the same on the ground floor and on the twentieth. The board is riveted or screwed to vertical profiles on a ventilated sub-frame — a rain-screen construction that keeps the wall dry and the dead load low.

Made of alkali-resistant glass-fibre reinforced concrete, the board is non-combustible (class A1), UV-stable and frost-resistant, and strong enough for high-rise façades. It is produced under EN 12467 and EN 1169 certified factory production control.

- Integral channels — fast, uniform workmanship
- Mechanically fixed, ventilated rain-screen construction
- Non-combustible, class A1; UV- and frost-resistant
- ≈ 30 kg/m² board weight — no additional structural load
- Compatible with clay brick slips and standard adhesive and pointing mortars
- White and grey boards; custom gauges for Dutch, German and British formats
- EN 12467 and EN 1169 certified production control



BRICK SLIP PLACED INTO THE CHANNEL OF A GREY BOARD

A1
FIRE CLASS, EN 13501-1

605 × 1,250
STANDARD BOARD FORMAT, MM

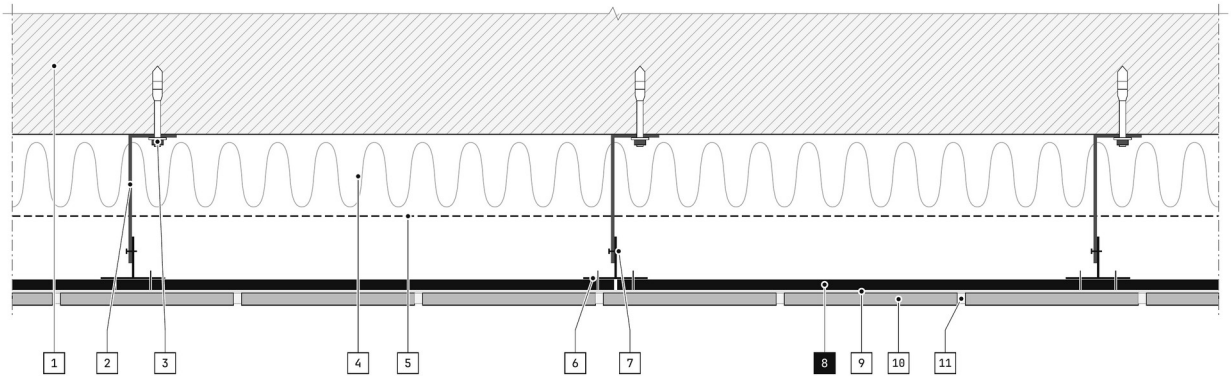
75 mm
STANDARD CHANNEL GAUGE

≈ 30 kg/m²
BOARD WEIGHT

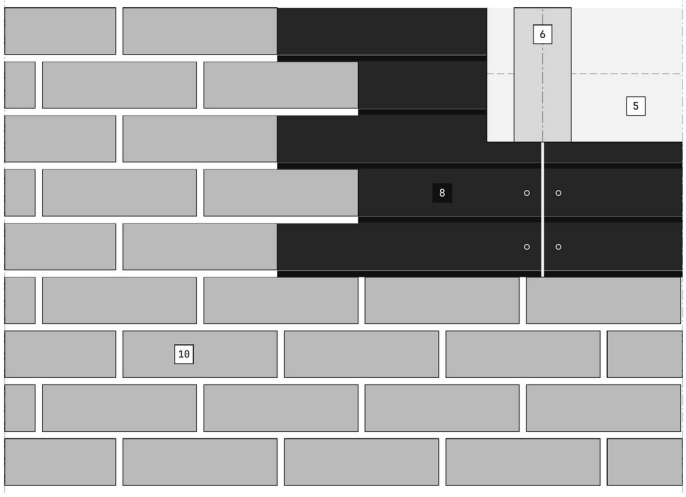

COMMERCIAL BUILDING · BRICK-SLIP FAÇADE WITH GREY FEATURE BANDS

SYSTEM BUILD-UP

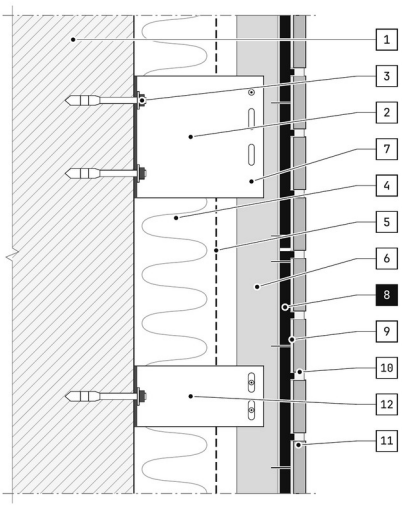
A ventilated rain-screen system.



A · HORIZONTAL SECTION — TYPICAL BUILD-UP · NOT TO SCALE



C · FRONT VIEW — LAYERS CUT AWAY · NOT TO SCALE



B · VERTICAL SECTION · NOT TO SCALE

COMPONENTS

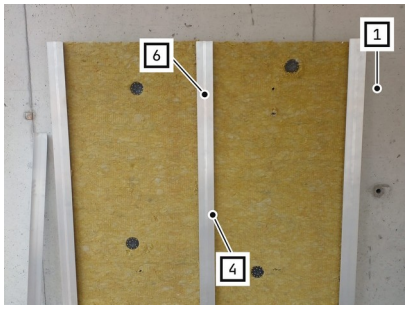
1	Wall (substrate)
2	Wall bracket, galvanised steel (fixed point)
3	Wall anchor / plug
4	Thermal insulation
5	Breathable water-resistive membrane
6	Vertical support profile, galvanised steel
7	Rivet
8	**FEBENG Brick Board BB-13**
9	Adhesive mortar
10	Brick slips
11	Joint sealant, PU-based
12	Steel bracket / angle (sliding point)

The board is fixed through its flat zones with rivets to vertical galvanised-steel profiles on wall brackets anchored to the load-bearing wall; a breathable membrane and thermal insulation sit behind a ventilated cavity. Brick slips are bedded into the channels with adhesive mortar and pointed. Bracket spacing, profile section, fixing pattern, cavity depth and fire-stopping are designed per project to the national regulations and the fixing manufacturer's data.

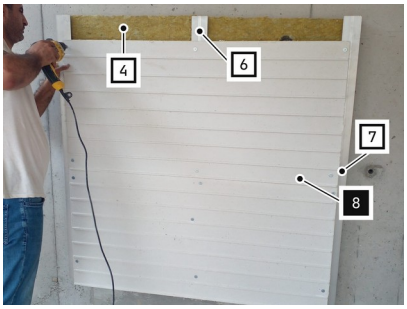
System detail sheet FEB-DET-BB-01 (typical wall build-up, window connections) and the technical data sheet FEB-TDS-BB-01 are available for design. — Drawings as in system detail sheet FEB-DET-BB-01 · schematic, not to scale

INSTALLATION

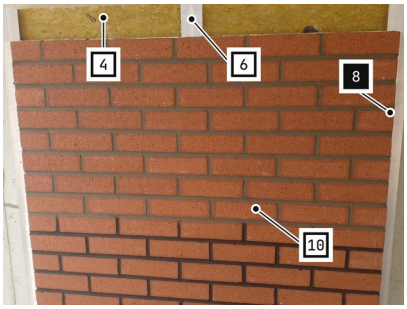
Three steps to a brick façade.



1 · BRACKETS, INSULATION AND VERTICAL PROFILES



2 · BOARDS RIVETED TO THE PROFILES



3 · SLIPS BEDDED INTO THE CHANNELS AND POINTED

INSTALLATION SEQUENCE

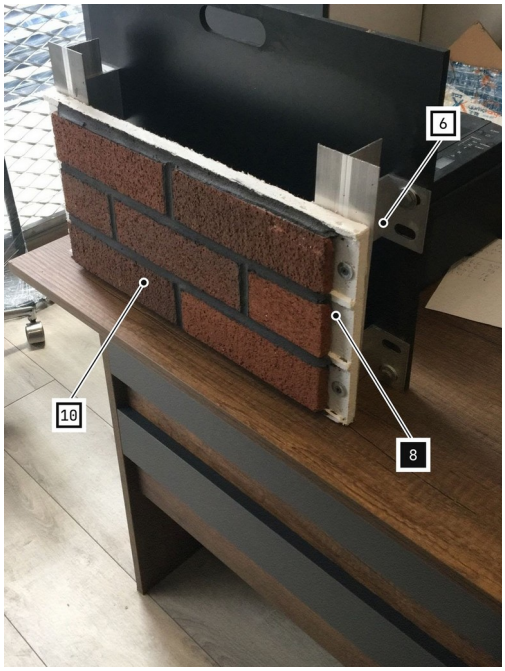
1. Check that the substrate is clean, sound and free from dust, oil and loose material.
2. Anchor wall brackets to the load-bearing structure at the spacing given in the project specification.
3. Fix vertical profiles to the brackets, aligned and plumb.
4. Install thermal insulation and membrane between the wall and the profiles where specified, leaving a ventilated cavity.
5. Fix the boards to the profiles with rivets or screws through the flat zones; keep the edge distances and do not over-tighten.
6. Seal board joints with a PU-based flexible sealant where required.
7. Bed the brick slips into the channels with adhesive mortar and fill the joints with pointing mortar.

CUTTING & HANDLING

- Cut with a diamond blade; drill with masonry bits. Use dust extraction, FFP2 respiratory protection, eye protection and gloves.
- Carry boards with two people, on edge. Store flat, indoors, dry and covered, with protective sheets between boards.



SITE INSTALLATION · BOARDS FIXED, SLIPS BEING LAID



CORNER SAMPLE · BOARD, SLIPS AND POINTING

TECHNICAL DATA

Technical data.

MATERIAL	
Composition	Cement-bound mineral composite, alkali-resistant glass-fibre reinforced (GRC)
Board colour	White · Grey
PHYSICAL & MECHANICAL	
Density	1,800 – 2,200 kg/m³ (typical 1,860 kg/m³)
Compressive strength	30 – 50 N/mm²
Flexural strength (EN 1170-5)	8 – 20 N/mm² (typical 21.6 N/mm²)
Modulus of elasticity	≈ 19,000 N/mm²
Impact strength (Charpy)	5 – 16 kJ/m²
Water absorption (EN 1170-6)	≈ 7 – 8 % by mass
Water-vapour diffusion resistance μ (EN 12086)	≈ 180
THERMAL	
Thermal conductivity (EN 12667)	0.6 – 1.4 W/(m·K) (typical 0.9)
Coefficient of thermal expansion	1.2 × 10^{-5} /°C
DURABILITY	
Reaction to fire (EN 13501-1)	Class A1 (EN ISO 1182 and EN ISO 1716)
UV ageing (EN ISO 4892-1)	No colour change; strength retention 99 %
Frost resistance	Suitable for external use in all European climate zones
STANDARDS & CERTIFICATION	
Product standard	EN 12467:2012+A2:2018 — Class 2, Category B
Factory production control	EN 12467 (CPC-UHPC001) · EN 1169:1999 precast GRC (CPC-UHPC002)
SIZES	
Board format	605 × 1,250 mm — 8 courses at 75 mm gauge; other formats to drawing
Thickness / rib height	13 mm / 18 mm — overall depth 31 mm
Channel gauge	75 mm standard (65 mm slip + 10 mm joint); custom 50 mm (Waalformaat), 52 mm (DF), 71 mm (NF) and others
Brick slips	Clay brick slips 18 – 25 mm thick
Weight (board only)	≈ 30 kg/m² (indicative)
Product code	BB-13

Values are typical values from production control unless stated otherwise; see the Technical Data Sheet for the full specification and test references.

APPLICATIONS

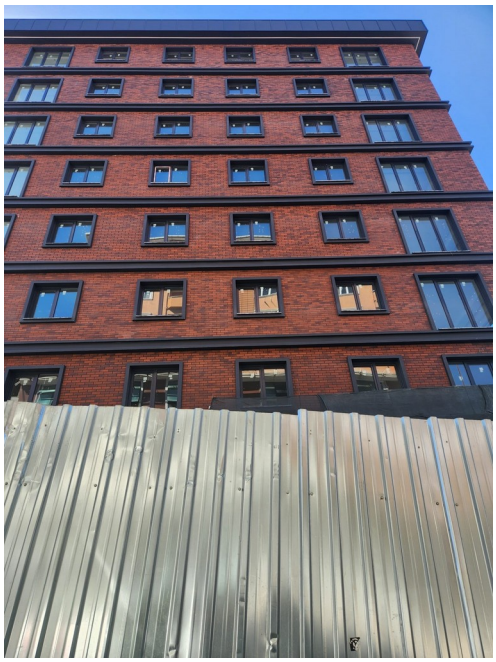
New-build ventilated façades on concrete, steel or timber-frame structures

Renovation and over-cladding of existing façades where a brick appearance is required at low weight

High-rise and mid-rise residential and commercial buildings with rain-screen construction

Prefabricated façade elements and modular construction

Interior feature walls with a genuine brick finish



MID-RISE RESIDENTIAL BLOCK · RED BRICK SLIPS

PROJECTS

Built on FEBENG Brick Board.

Brick-slip façades on FEBENG Brick Board — from mid-rise residential blocks to high-rise towers, in red, brown and grey slips, combined with metal and render where the architecture asks for it.



RESIDENTIAL DEVELOPMENT · VENTILATED BRICK-SLIP FAÇADE



MIXED-USE BUILDING · BRICK-SLIP FAÇADE WITH FEATURE PANELS



GREY BRICK SLIPS WITH FEATURE BANDS



RESIDENTIAL TOWER · BRICK SLIPS AND METAL RAIN-SCREEN

QUALITY & DOCUMENTATION

Tested, certified, documented.

Reaction to fire	Class A1 to EN 13501-1 (EN ISO 1182 and EN ISO 1716)
Factory production control	EN 12467:2012+A2:2018 fibre-cement flat sheets — certificate CPC-UHPC001
Precast GRC	EN 1169:1999 — certificate CPC-UHPC002
Mechanical testing	EN 1170-5 flexural strength · EN 1170-6 water absorption · EN 12667 thermal conductivity · EN 12086 vapour diffusion · Charpy impact
Durability	EN ISO 4892-1 UV ageing — no colour change, 99 % strength retention
Documentation	Technical data sheet, safety data sheet, declaration of conformity, system detail sheet FEB-DET-BB-01 and installation guidance — EN · NL · DE · IT · TR

SALES & DISTRIBUTION

Supplied from the Netherlands. Sold across Europe.

FEBENG Brick Boards are supplied by Carbonfib BV from Amstelveen and distributed throughout the European Union by Kredas, our exclusive sales and distribution partner. Façade contractors, brick manufacturers, prefabricators and distributors receive one point of contact for samples, technical support, pricing and logistics.

Custom channel gauges and formats are produced to drawing; mould lead times apply for new formats. Ask us for a sample board, a project quotation or a technical consultation.



CORNER DETAIL WITH BALCONIES · BRICK SLIPS ON FEBENG BRICK BOARD

CONTACT

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engineering solutions

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ALSO FROM FEBENG

FEBENG Baking Panel — an engineered, cement-bound hearth panel for deck, tube, conveyor and pizza ovens. Ask for the separate Baking Panel brochure.

FEB-BRO-BB-01 · REV. 02 · OCTOBER 2026