EcoMarble® | Exterior Façade & Insulated Cladding Systems

INTERNATIONAL TECHNICAL CONCEPT OVERVIEW • PROJECT-SPECIFIC SOLUTIONS • OCTOBER 2026

A natural-stone-faced building-envelope concept

This concept combines natural stone facing with project-selected thermal insulation, carrier/support layers, engineered mechanical retention and weather-resistant joint details. It may be considered for selected residential, hospitality and commercial façades, subject to technical feasibility and destination-market requirements.

What the concept offers

- Authentic natural stone appearance for selected exterior architectural designs.
- Potential integration of thermal insulation and stone facing in a coordinated façade build-up.
- Opportunity to assess lower cladding mass than some conventional thick-stone solutions, depending on the complete engineered system.
- Prefabrication or component replacement opportunities where the approved assembly enables them.

Important product distinction

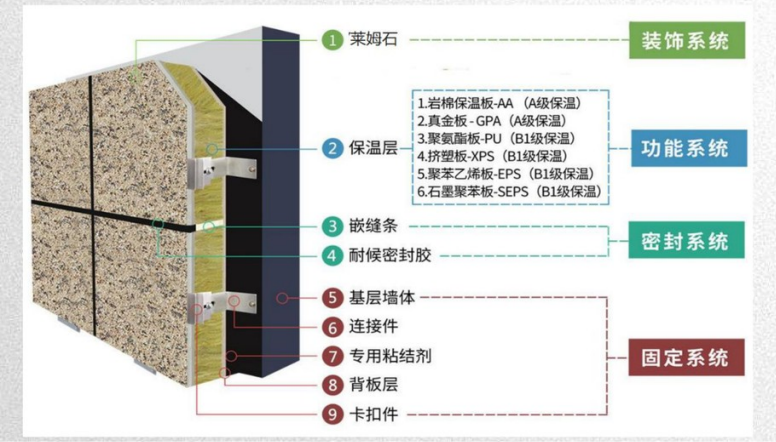
This document describes a project-specific exterior façade system concept. It does NOT establish that the standard EcoMarble® approximately 6.5 mm interior natural stone composite panel is approved for external façades. Façade stone thickness, carrier construction, insulation, fixings and connections must be separately selected, designed and validated.

Intended audience

Architects • Façade engineers • Building-envelope consultants • Developers • Specialist contractors • Project partners

01 | Conceptual façade assembly

Layer arrangement below is illustrative, not a tested, dimensioned or approved construction detail. The source concept includes natural stone, an insulation layer, backing / support, substrate connections, mechanical fittings and sealed joints.



Original source figure

System concept
Natural stone facing + insulation
Backing and support interfaces

Project-dependent
Anchors, brackets and substrate
Joint seals and weather details

Component responsibilities

System element	Design / verification requirement
Natural stone facing	Select stone type, finish, exposure suitability, panel dimensions and thickness.
Insulation + backing	Confirm compatibility, moisture and fire behaviour, thermal performance and bonding.
Mechanical retention	Engineer brackets / anchors, substrate capacities, corrosion protection and load transfer.
Joints / envelope	Design weather seals, flashings, drainage, thermal and structural movement.

Note: The original reference is a concept for a layered stone-and-insulation façade. It does not identify a single globally approved assembly or establish fixed material specifications.

02 | Indicative project-to-installation workflow

The original reference shows substrate preparation, layout, installation of supporting elements and panels, and joint finishing. The sequence below adds the engineering and verification gates required before any project execution.



Original installation figure

Indicative sequence

Substrate check and layout
Support/retention installation

Completion

Panel fixing and joint finishing
Inspection per engineered design

Engineering and installation checkpoints

Structural — Wind pressure / suction, dead loads, impact, movement, support wall capacity, anchor design and pull-out.

Fire and thermal — Local façade fire rules, insulation classification, assembly performance, thermal bridging and required R / U values.

Weather and durability — Water penetration, flashings / drainage, vapour management, condensation, corrosion and exposure of natural stone.

Construction and quality — Approved drawings, materials compatibility, site tolerances, installation procedure, inspections and maintenance plan.

Not a construction method statement

No fixing spacing, adhesive coverage, fastener type, insulation specification, stone thickness, cavity detail or installation sequence is prescribed by this overview. These are the responsibility of the appointed design and delivery team.

03 | International project evaluation

This is an exploratory building-envelope solution. No claim is made regarding certification, façade fire rating, tested wind resistance, waterproofing classification, quantified energy savings, installation cost or service life.

Information required for a feasibility review

- Destination country / city, building type, height and proposed elevations.
- Stone selection, appearance objectives, preliminary sizes and desired insulation performance.
- Supporting wall type, exposure conditions, project programme and design responsibility.
- Local façade regulations, testing / certification pathway and qualified engineering reviewer.

Local code and approval responsibilities

A complete wall system must satisfy the applicable requirements of the destination market. For Australian projects, NCC compliance and all relevant fire, structural, energy-efficiency and weatherproofing provisions require review by suitably qualified local professionals. Other markets have their own applicable codes and approval processes.

Project cooperation

Nusfun Pty Ltd welcomes concept enquiries from architects, façade consultants, developers, natural stone partners and specialist contractors. Stone and system options, feasibility, specifications, samples, technical support and commercial terms are discussed case by case.

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Document status

General international concept information only. Not a tested system specification, installation guide, product certification, technical approval, warranty or confirmation of suitability for any specific site. All design, testing, regulatory approval and construction details require project-specific confirmation.