

FP WALL

MONOLITHIC MINERAL INSULATION FOR WALLS AND VERTICAL STRUCTURES

What is FP Wall?

FP Wall is FullSulate's **configurable mineral insulation system** for walls and vertical structures. Sprayable, pumpable, castable or hand-applied, it forms a continuous thermal insulation layer built on **FP additives®** technology, adaptable to the wall structure, substrate and application requirements of the project.

Application areas



External facade thermal insulation



Internal side thermal insulation



Thermal bridges, reveals and complex junctions



Ceiling and soffit surfaces



Infill for light-gauge steel (LGS) and timber-frame walls



Non-load-bearing, formwork-cast wall bodies



Thermal, fire and partial acoustic infill for prefabricated and sandwich panels



Modular building wall, partition and panel systems



Selected fire-rated applications, subject to separate validation

CORE ADVANTAGES

- Forms a **monolithic, joint-free** layer – no board cutting, less waste.
- Follows **irregular, curved or hard-to-access surfaces** and complex junctions.
- Combines with **FP Plaster System** for a complete wall build-up on the same technology base.
- Compatible with **FP Water Block** as a vapour-permeable, water-repellent surface coating (currently in testing).
- Maintains **vapour permeability** together with water-repellent performance.
- **100% mineral-based**, non-toxic, and compatible with standard mortar pumps.
- Available as **premix for pilots** or as **FP additives® + local raw materials** for licensed, localized production at scale.

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TECHNICAL SNAPSHOT

Thermal conductivity (λ)	approx. 0.048 W/mK
Bulk density	approx. 150–170 kg/m ³
Vapour diffusion resistance (μ)	approx. 6
Fire classification	A2-s1,d0
Typical layer thickness (no formwork or mesh)	2-20 cm
With formwork	greater thickness achievable, project-dependent

Positioning boundary

FP Wall can be configured as a standalone, non-load-bearing wall body or infill wall system. It is not currently positioned as a general load-bearing structural material – load-bearing use requires separate structural development, engineering and testing.

FullSulate provides **proprietary FP additives® technology, application-specific formulations, existing technical documentation and application support**. Approved configurations can be produced locally under a controlled licensing and quality-assurance model; the partner completes assembly-specific validation, certification and market localisation.

How does integration start?

1. Map the existing wall structure and target performance.
2. Select the highest-value first application.
3. Configure and prototype the FP Wall formulation.
4. Define assembly-specific validation and certification requirements.
5. Compare the prototype with the current build-up and agree a pilot programme.

Important technical note

Final formulation, layer build-up & performance values are determined and validated for the partner's substrate, moisture condition and target market. Values above are indicative system references, not declared performance values for every profile.

LET'S IDENTIFY THE STRONGEST FIRST APPLICATION.

Share your current wall build-up and target market; together we can define a comparative prototype or pilot programme.