

the art of custom-made ventilated facades



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HIGH-PERFORMANCE BUILDING ENVELOPES: PORCELAIN VENTILATED SYSTEMS

BY TEMPIO (GERAMICA MAYOR)

ENGINEERING EXCELLENCE | 125-YEAR HERITAGE | TECHNICAL SPECIFICATION

Vitrified Porcelain Core: Fired at 1200°C for maximum density and near-zero water absorption.

Active Thermal Shield: Natural "chimney effect" ventilation reduces cooling loads by up to 40%.

Marine-Grade Durability: Certified resistance to high-salinity environments and salt-mist oxidation.

Fire Safety Compliance: Euroclass A1 non-combustible material for maximum structural security.

Zero-Maintenance Lifecycle: Self-cleaning properties and UV-stable mineral colors.

Acoustic Buffer: Significant reduction in urban noise pollution through multi-layered assembly.

nZEB Strategy: High-performance thermal barrier contributing to LEED and BREEAM certifications.

BIPV Structural Integration: Seamless compatibility with active solar skins (Ertex/DAS) for energy-producing facades.

Deep Retrofit Capability: Advanced "Re-Skinning" technology for structural and thermal building upgrades.

Eco-Sustainable Design: 100% natural raw materials supporting Circular Economy principles.

SYSTEMS OVERVIEW

Structural Integrity & 1200°C Technology

The Tempio porcelain facade systems represent the pinnacle of ceramic engineering. By firing natural clays at 1200°C, the material achieves a vitrified state, ensuring extreme mechanical strength and total immunity to atmospheric pollutants and frost.

The Ventilated Logic

Beyond aesthetics, the system functions as a technical skin. The air cavity between the porcelain panels and the building structure eliminates thermal bridges and prevents interstitial condensation, ensuring the longevity of the building's main core.

Environmental Adaptation

Designed for the most demanding environments, the system's "Marine Grade" performance makes it the ideal specification for coastal developments. The non-porous surface prevents the accumulation of salt and soot, maintaining the building's original aesthetic for decades without the need for chemical cleaning.

Energy Synergy

In the era of nearly Zero Energy Buildings (nZEB), the Tempio envelope acts as the primary defense against solar radiation. Its precise engineering allows for the flawless integration of architectural BIPV elements, transforming the building into a passive and active energy generator.

FROM RESIDENTIAL DEVELOPMENTS AND HOSPITALITY PROJECTS TO URBAN REGENERATION AND WATERFRONT DESTINATIONS,
TEMPIO FAÇADE SYSTEMS REDEFINE THE BUILDING ENVELOPE AS A LONG-TERM ARCHITECTURAL AND INVESTMENT ASSET.



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VOL. 2

VOL. 3

VOL. 4

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SALES

AGENTS

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ADMIN

SUPPORT

CONTACTS