UHPC CLADDING PANEL FCLAD®









Exceptional construction material, Ultra High Performance Fiber Concrete (UHPC) possesses a unique combination of technical and aesthetic qualities for concrete: ductility, exceptional strength, high resistance to abrasion and explosions, immunity to corrosion, aggressive environments, freezing/thawing cycles, and UV exposure.

TABLE OF CONTENTS

The FClad® cladding solution	p.4
Technical characteristics	p.6
Colors and textures	p.11

THE FCLAD® CLADDING SOLUTION WITH ductal

THE MINERAL CLADDING OF YOUR FACADE IN ULTRA HIGH PERFORMANCE FIBER REINFORCED CONCRETE (UHPC)

The FClad® cladding panel in Ultra High Performance Fiber Reinforced Concrete creates an envelope around the building (including the ground floor) while providing the following functions: aesthetic enhancement of the building, resistance to impacts and external aggressions, fire protection in accordance with environmental and user health considerations.

For designers, the FClad® cladding panel combines the safety advantages of customization, industrial quality of prefabrication, shortened timelines, optimized labor, and increased simplicity of installation, along with the countless architectural possibilities of Ductal® fiber-reinforced concrete.

For users, the exterior cladding provides the comfort of a ventilated curtain wall facade that is resilient and insulating, with or without integration into an External Thermal Insulation (ETI) system. FClad® protects against rain, noise, and disasters while effectively managing condensation (thermal and acoustic insulation is complemented by UV resistance and fire resistance up to +350°C).





With a thickness of 16mm, it can be installed vertically or horizontally and is available in multiple sizes, according to your needs:

FClad® Light

Manuportable
(Standard pallet dimensions)
L.1.20m x W.0.60m
Subject to technical approval
Adjustable on site

FClad® Classic

Custom-made
up to L.4.00m x W.1.80m
Subject to technical approval
With possible monolithic corner
solution up to 30cm

FClad® Custom

Custom-made up to L.12.00m x W.3.80m Corner elements (1 or 2 returns) Variable thickness Curved elements

TECHNICAL CHARACTERISTICS

Extreme customization

Size and thickness Color and matrix Raw, natural, or stained finish

A mineral and ecological facade

Possibility of having a depolluting and self-cleaning facade Derived from natural resources - 100% recyclable

Exceptional durability

Rot-proof and resistant to UV, weathering, impacts, freeze/thaw cycles. Seismic zone category 4, zones 1, 2, 3 Minimum lifespan of 80 years

Fire protection

Extremely fire-resistant Fire classification A1-A2 s1 d0

Simple and secure installation

The system can be easily installed on timber frame, metal frame, concrete walls, or masonry, using an invisible rail fixing system, for both new construction and renovation projects.



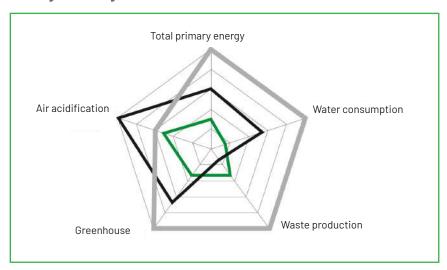
CONCRETE, A LIVING NATURAL MATERIAL



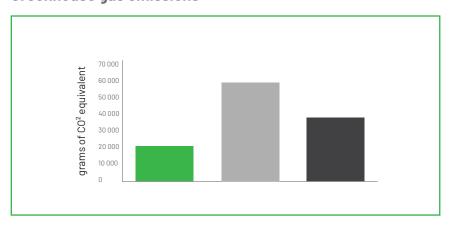
Composed of limestone, sand, gravel, and water.

100% recyclable, it contributes to environmental conservation with a low carbon footprint.

Life cycle analysis



Greenhouse gas emissions

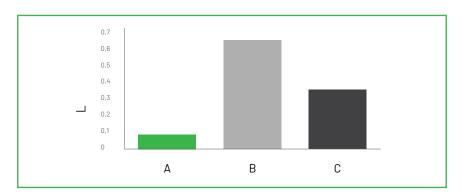


FClad® cladding panel

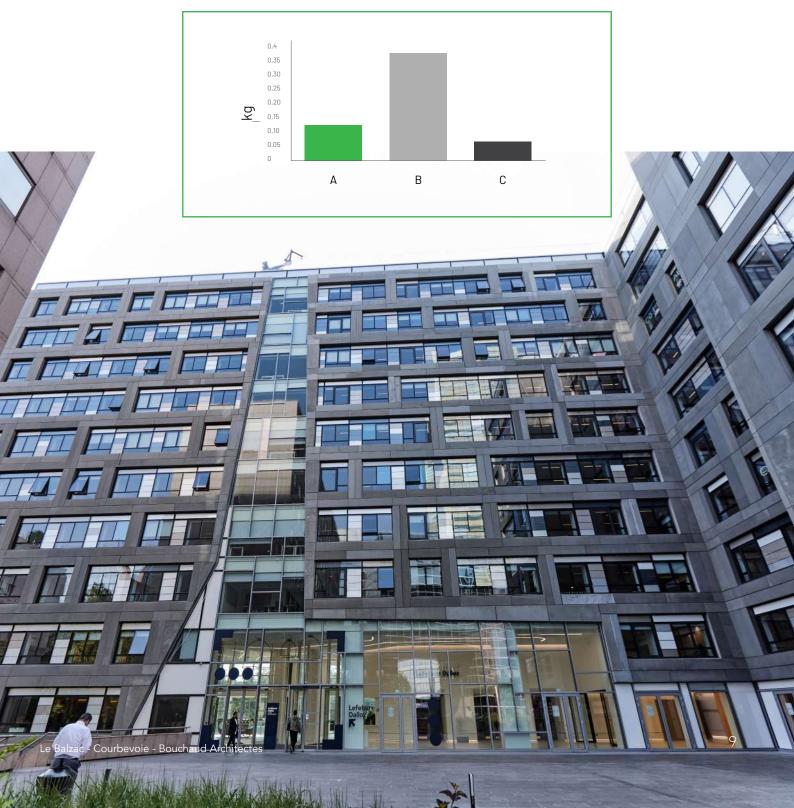
HPL cladding panel

____ Aluminum cladding panel

Water consumption



Waste production





A DIVERSE RANGE OF COLORS



The color is achieved by incorporating pigments directly into the material. The colorfastness to UV and weathering is therefore guaranteed.

Each color can be further enhanced with a tinted stain (the stain color may not necessarily match the inherent color of the material).

THE TEXTURES

The surface finish replicates that of the mold. The self-placing behavior of the material and the fine grain allow for an extremely faithful reproduction of the texture incorporated in the mold.







SOME ACHIEVEMENTS

- > Collines de l'Arche Paris Patrick Durand
- > Le Balzac Paris Courbevoie Bouchaud Architectes
- > Emblem Tower Paris Courbevoie JLL
- > United Nations Geneva (CH) Skidmore, Owings & Merrill Inc.
- > American military base dental clinic Spangdahlem (DE) Peter Gross
- > Entrance of the Contemporary History Forum Leipzig (DE) Molitor GmbH
- > Foksal Gallery Warsaw (PL) Diener & Diener Architekt
- > Eaux Vives residences Geneva (CH) Olivier Vallat Architecte
- > Social housing Paris Philippon Kalt
- > Student residence Paris Jacques Ripault Architecture
- > Firmenich Tower renovation Geneva (CH) Baud & Früh
- > Housing Arcueil Gentilly AEC Architecture
- > Nursing home Paris Philippon Kalt







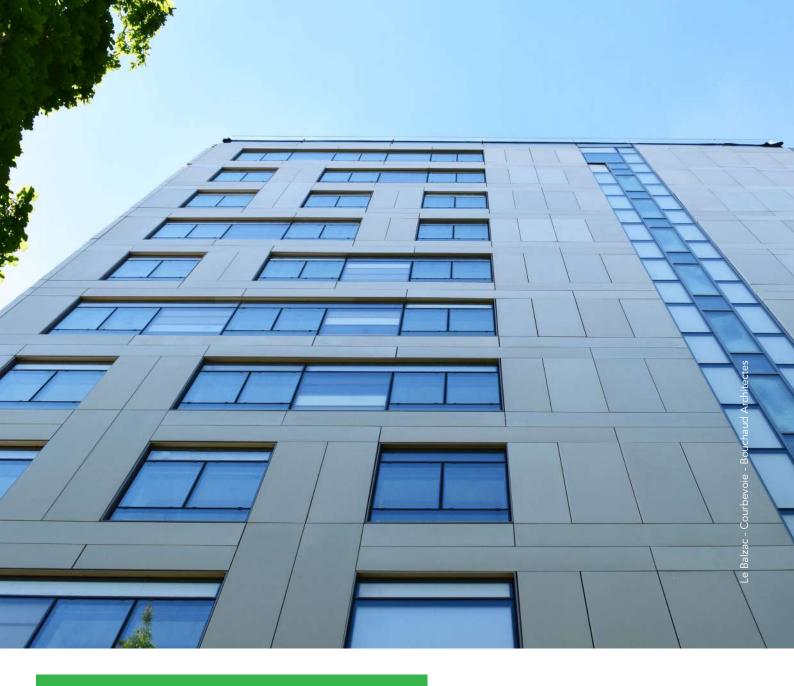












FROM STUDY TO INSTALLATION ACROSS EUROPE.

FEHR accompanies you at every stage of your project and adapts to your requests. Offering optimized costing based on the specific and technical needs of each site, our production flexibility and responsiveness ensure timely delivery while guaranteeing optimal safety on construction

Production site

Franz-John Strasse 13/1 **D-77855 ACHERN** Tel. +49 7841 6812 904 info@fehrgroup.com

FEHR GROUP SAS (HEADQUARTERS)

ZA Emile Mathis - 21 route de Froeschwiller F-67110 REICHSHOFFEN Tel. +33 (0)3 88 80 86 30









