

fibrec

facade panels made of
glassfibre reinforced concrete

Beton lebt.

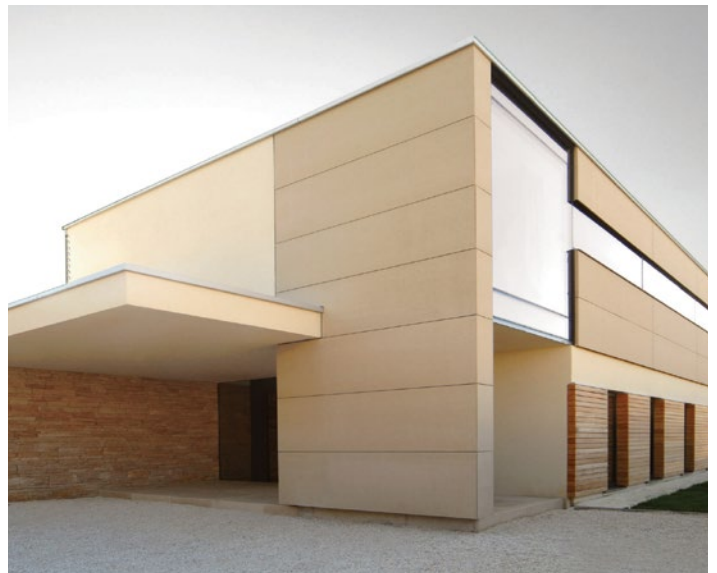
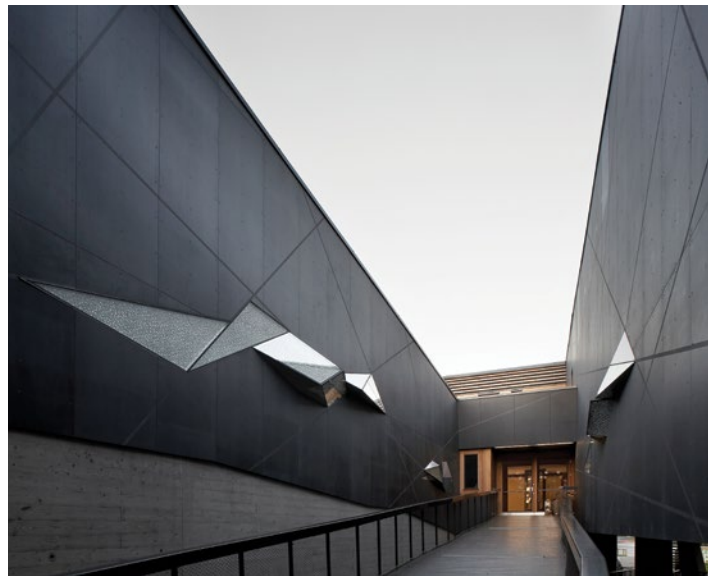
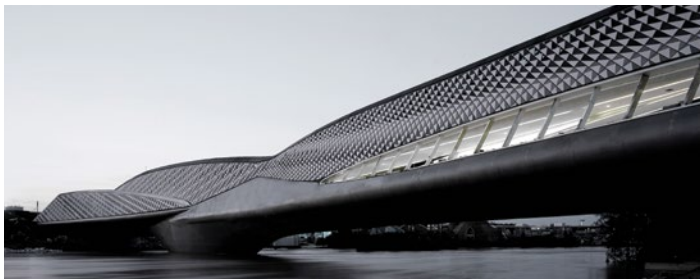


RIEDER

Exterior

Concrete skin – a facade cast in one piece

The development of fibreC was inspired by Rieder's vision of a concrete cladding panel that is both stable and lightweight, able to withstand the effects of weather and environmental conditions and at the same time sustainable and aesthetic. fibreC – the name is an acronym of the words "glassfibre" and "concrete" – is a glassfibre-reinforced concrete panel that unites the advantages of both glassfibres and concrete. Glassfibre-reinforced concrete is made of purely mineral raw materials, which give the panels their unique characteristics. The authentic appearance creates a vivid facade.



Copernicus Science Center Warsaw 13,000 m² fibreC facade | various colours | MA

Storefront for Art and Architecture New York fibreC facade | silvergrey | MA

Zaragoza Bridge Pavillon 11,500 m² fibreC facade | grey shades | MA & FE

Villa D. Bischofshofen 700 m² fibreC facade | terra | FE

Soccer City Stadium Johannesburg 30,000 m² fibreC facade | various colours

National Park Center Mittersill 450 m² fibreC 13 mm | anthracite | MA

Villa A. Ried im Innkreis 200 m² fibreC facade | sandstone | FE

Interior

Concrete has never been more versatile

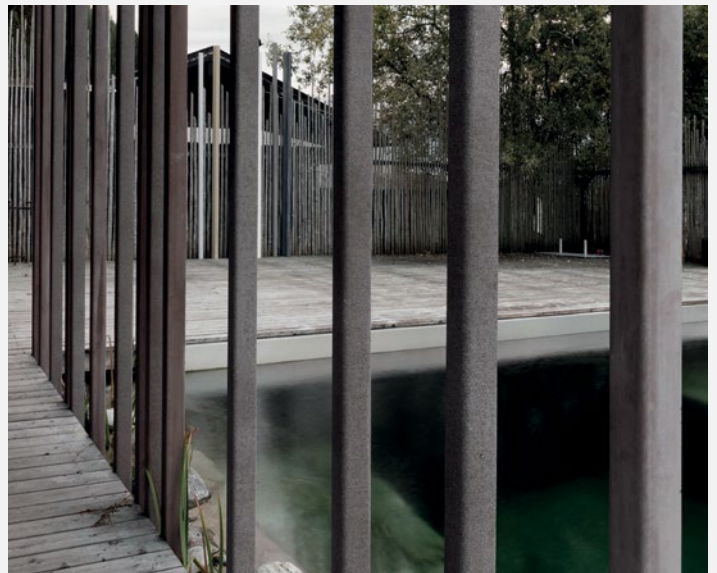
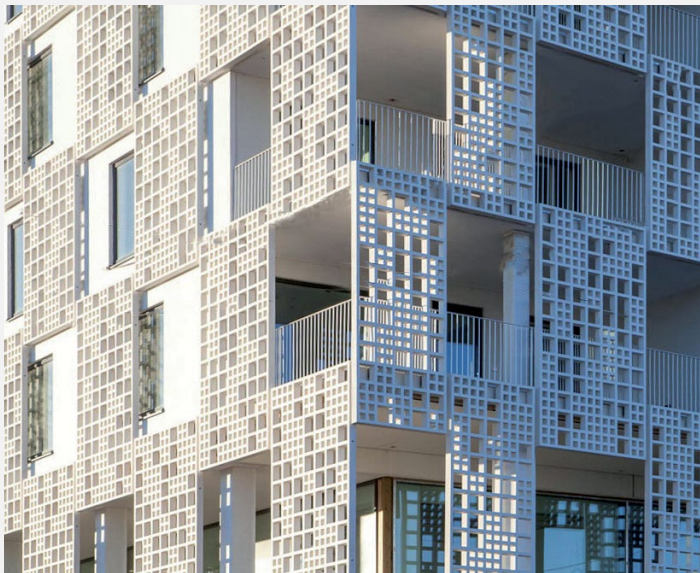
As fibreC can be used for many surfaces, it becomes possible to overcome traditional boundaries of space and increase the flow of materials. Interior and exterior spaces are merged into one, thus increasing new and innovative design options for members of the architectural community. Modern and pure at the same time, fibreC blends perfectly into interior spaces and articulates calmness and clarity. Owing to its formability, fibreC offers flowing transitions from interior to exterior surfaces and a smooth covering for edges and corners.



Individual

The third dimension

Special colours, perforations, individual forms and three-dimensional elements offer planners ample scope for creativity. Complicated geometries, biomorphic forms free - concrete facade elements are no longer limited by two-dimensional sheet material. Due to special production techniques almost every realisation of unique and individual designs is possible, whether as sunscreen fins or brise soleil elements with faced concrete quality on both sides.



Florentinum Business Office Prague 5,000 m² fibreC U-formparts 13 mm | ivory | FE
Social housing Länsisatamankatu Helsinki 2,100 m² fibreC 3D facade | polar white

Villa R. Maishofen 500 m² fibreC wall & floor | ivory | MA
Private Spa Maishofen sun screen elements with fibreC fins 13 mm | terra | FE

A new concrete quality

Fire resistance: Class A1 thermic values and fire resistance according to DIN standard, highest fire resistance and thermal stability up to 350° Celsius.

Performance: Highest loading capacity at minimum cross sections and enormous panel sizes set new standards in facade engineering for interior and exterior applications.

Long-term durability: Proven long-term durability for both interior and exterior applications due to highest product quality.

Authenticity: The use of purely mineral raw materials in the concrete matrix results in top quality meeting the highest requirements. fibreC is authentic. Natural concrete – nothing more, nothing less!

Formability: Bending, forming and chamfering of elements in one piece at constant solidity and without adhesive.

Individuality: A maximum degree of individuality of the elements is achieved by the new concept of industrial manufacturing. Each element is unique in size, colour and surface.

Green product: High standards in environmental protection and innovative technologies with ecological responsibility make fibreC a „green“ product.

Technical data

Building material class A1 (according to DIN 4102) - incombustible

Bending tensile strength > 18 N/mm² (MOR)

E-modulus for deformation calculation approx. 10,000 N/mm²

E-modulus for restraint calculation approx. 30,000 N/mm²

Dead load / mass per unit area 26 - 31.5 kg/m²

Thermal expansion coefficient 10*10⁻⁶ 1/°K

Thermal conductivity lambda approx. 2.0 W/(m*K)

Temperature stability according to humidity up to 350°C

Waterproof according to EN 12467

Thermal and rain testing according to EN 12467

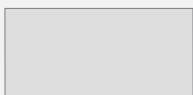
Frost resistance according to EN 12467

35 international certificates, product and system tests, including

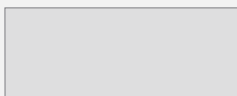
Avis Technique, DIN EN ISO 9001, DIN EN ISO 14001, ETA, IBO, DIBT, EPD

Sizes

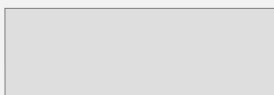
1200 x 2500 x 13 mm



1200 x 3100 x 13 mm



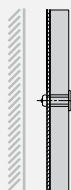
1200 x 3600 x 13 mm



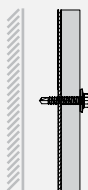
Other sizes on request.

Fixing systems

visible

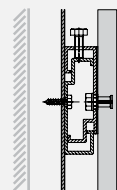


rivets



screws

concealed



undercut anchor



adhesive

Colours and surfaces

fibreC panels are through colour including iron oxide and natural additives. They are available in 12 different colours and 3 surface textures - FE Ferro (sandblasted), FE Ferro Light (sandblasted at lower pressure) and MA Matt (brushed, smooth surface), special colours are available on request.

Concrete is a natural material. The raw materials used for the production create a specific surface appearance which is typical for concrete. This play of colours within a certain colour shade is intentional and enhances the vivid character of concrete. Due to technical reasons printed colours may differ from the original panel shades.

	FE Ferro	FL Ferro Light	MA Matt
Polar White			
Off-White			
Ivory			
Silvergrey			
Chrome			
Anthracite			
Liquide Black			
Sahara			
Sandstone			
Terra			
Terracotta			
Green			

References

Learning and Library Center, University of Vienna

Zaha Hadid Architects, London & Hamburg
6,300 m² fibreC facade | ivory & anthracite | FE

Soccer City Stadium - FIFA 2010, Johannesburg

Boogertman, Urban Edge and Partners, Johannesburg
30,000 m² fibreC facade | various colours

Opera House, Bregenz

Dietrich | Untertrifaller Architects, Bregenz
3,300 m² fibreC facade | ivory & liquide black | FE

The Standard Hotel, New York

Polshek Partnership Architects, New York
2,400 m² fibreC facade | anthracite | MA

City Hall, Kolbermoor

Behnisch Architects, Stuttgart
1,000 m² fibreC facade | polar white, liquide black & green | FL

Merchant Square, London

Mossessian & Partners, London
2,000 m² fibreC facade | silvergrey | MA

Ecole Nationale Supérieure d'Architecture, Straßburg

Marc Mimram Architects, Paris
600 m² fibreC facade | bianco | MA

Zaragoza Bridge Pavillon - EXPO 2008

Zaha Hadid Architects, London
11,500 m² fibreC facade | grey shades

Office building ZAC Landy SNCF, Paris

CALQ architecture, Paris
2,200 m² fibreC facade | anthracite | FE

PAN University, Warsaw

Kontrapunkt V-Projekt, Krakow
2,000 m² fibreC facade | silvergrey | FE & MA

Energy Biosciences Building, University of California, Berkley

Smith Group, San Francisco
6,300 m² fibreC facade & interior walls | various colours | FE

Dormitory Blok 1, Arnhem

Group A Architects, Rotterdam
1,800 m² fibreC facade | terra | FE, FL & MA



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