A new concrete quality

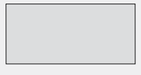
- **Increased fire resistance:** Class A1 thermic values and fire resistance according to DIN standard, highest fire resistance and thermal stability up to 350° Celsius.
- **Performance:** Highest loading capacity at minimum cross sections and enormous panel sizes set new standards in facade engineering 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 min. 18 Mpa according to EN 12467
Elasticity module 20.000 N/mm²
Dead load 26 – 32 kg/m² (13 mm)
Thermal expansion coefficient 10x10^{-6}K^{-1}
Thermal conductivity 2,1 W/m x k
Thermal stability according to slab 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 product and system tests, including:
DIN EN ISO 9001, DIN EN ISO 14001, ETA, IBO, ÖNORM EN 12467, Taywood/CWCT

Sizes Exterior

1200 x 2500 x 10 mm
1200 x 2500 x 13 mm



1200 x 3600 x 10 mm
1200 x 3600 x 13 mm

Please note restrictions on application for 10 mm panel. Other sizes on request.

Sizes Interior

1200 x 2500 x 08 mm
1200 x 2500 x 13 mm

1200 x 3600 x 10 mm
1200 x 3600 x 13 mm

Please note restrictions on application for 8 and 10 mm panel. Other sizes on request.

References

International References

Zaragoza Bridge Pavilion - EXPO 2008, Spain
Zaha Hadid Architects, London
11.500 m² concrete skin 13 mm / various grey shades

Soccer City Stadium - FIFA 2010, South Africa
Boogertman, Urban Edge and Partners
30.000 m² concrete skin 13 mm / African colours

Dumfries & Galloway College
BDP Architects, Scotland
5.400 m² concrete skin 13 mm / terracotta & anthracite / FE

The Standard Hotel NYC, United States
Polshek Partnership Architects, New York
2.400 m² concrete skin 13 mm / anthracite / MA

CSPACE Pavilion for AA DRL London, United Kingdom
Alvin Huang & Alan Dempsey, London
concrete skin 13 mm / bianco / MA

National References

Opera House Bregenz
Dietrich | Untertrifaller Architects, Bregenz
3.300 m² concrete skin 13 mm / ivory & liquide black / FE

Federal Economic Chamber, St. Pölten
Millbacher Gschwantner ZT
1.900 m² concrete skin 13 mm / anthracite / FE

Railway Station Vienna North
Architect DI Wimmer, Vienna
1.800 m² concrete skin 13 mm / anthracite / MA

Office Towers, Stadium Salzburg
Schuster Architects, Salzburg
1.100 m² concrete skin 13 mm / liquide black / FL

Headquarter Felbertauern Straße AG, Lienz
Griessmann, Scherzer & Mayr, Lienz
650 m² concrete skin 13 mm / silvergrey / MA

FSI Frank Stronach Institute, Graz
Zinterl Architects ZT, Graz
1.900 m² concrete skin 13 mm / venice green / FE & FL

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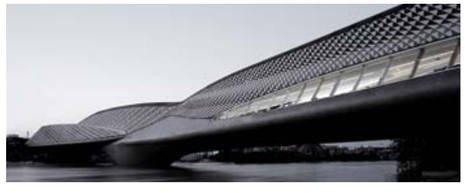
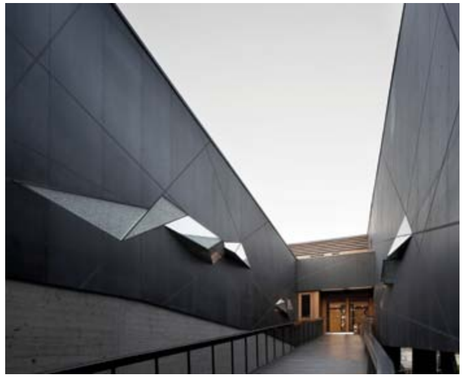
EN

[fibre C]
BY RIEDER

Exterior

Concrete Skin – a facade cast in one piece
fibreC is a concrete panel reinforced with glassfibres which combines the advantages of concrete and glassfibres in one product: it is as solid, mouldable and durable as concrete, but also thin-walled, fireproof and light-weight as a result of the glassfibres. As a skin of concrete, fibreC enables the construction of slim elements with a tensile strength. The extremely thin concrete slabs contribute to the new language of shapes and meet highest requirements of modern architecture and interior design through its elegance and simple beauty.





Ski Station Zell am See 300 m² concrete skin 13 mm / liquide black / FE
Opera House Bregenz 2.700 m² concrete skin 13 mm / ivory / FE
Zaragoza Bridge Pavilion 11.500 m² concrete skin 13 mm / grey shades / MA & FE
UNM Cancer Center New Mexico 6.000 m² concrete skin 13 mm / terracotta / FE & MA

Soccer City Stadium Johannesburg 30.000 m² concrete skin 13 mm / African colours
National Park Center Mittersill 450 m² concrete skin 13 mm / anthracite / MA
Private House Ried im Innkreis 200 m² concrete skin 13 mm / sandstone / FE

Interior

Concrete has never been more versatile
Owing to its formability, „concrete skin" offers flowing transitions from interior to exterior surfaces and a smooth covering for edges and corners. As fibreC can be used for all 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, „concrete skin" blends perfectly into interior spaces and articulates calmness and clarity.

SPA Hotel Rote Wand 650 m² oncrete skin 13 mm / silvergrey / FL
Concept: Fireplace made of fibreC concrete skin 13 mm / silvergrey / MA
Private House Maishofen 500 m² concrete skin 13 mm / ivory / MA
Museum of Modern Art Zagreb 2.000 m² concrete skin 13 mm / anthracite / MA & FL

Private House Maishofen 500 m² concrete skin 13 mm / ivory & anthracite / MA
Private House Maishofen 500 m² concrete skin 13 mm / ivory / MA
Opera House Bregenz 600 m² concrete skin 13 mm / liquide black / FE

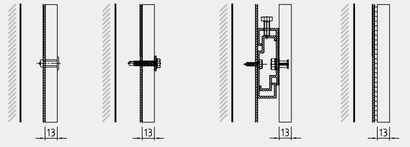
Colours and Textures

Colours	FE Ferro	MA Matt
01 Bianco		
02 Ivory		
03 Silvergrey		
04 Anthracite		
05 Liquide Black		
06 Sandstone		
07 Terra		
08 Mocca Brown		
09 Venice Green		
10 Terracotta		

Additional textures and colours available, special colours min. project size 1.000 m².

Fixing Systems

Visible **Concealed**



Rivets Screws Undercut Anchor Adhesive

In the sign of nature

Natural
As more than 95% of fibreC glassfibre concrete consist of purely mineral components, fibreC is very health and environment friendly. Due to the fact that it is deemed foodstuff safe, fibreC is even used in bread and pizza ovens!

Sustainable
The production of fibreC causes 40% less global warming potential than fibre cement panels or aluminium sheets based upon IBO criteria. Because of its excellent eco-profile, fibreC spends 70% less primary energy than the production of HPL-panels (Ref. IBO Product Test 06/2007).

Durable
Because of its life expectancy of more than 50 years, fibreC is not only an economic, but also a resource-saving solution for facades. The environment management at Rieder is certified according to ISO 14001.

Biological
fibreC is listed at GreenSpec® Directory. GreenSpec offers an information service for environmental preferable products and lists materials that meet strict biological and ecological criteria.

Green Building
The 1st LEED-certified „green" building made with fibreC is in progress. LEED® (Leadership in Energy and Environmental Design) is the most important standard for developing high-performance, sustainable buildings in the USA.