

Technical Data Sheet

Fibrocem



Portland composite cement for plat
manufacturing
CEM II/B-LL 32,5 R

Description

Fibrocem is a II BLL Portland Composite type of cement conforming to EN standard 197-1, specially developed to meet the needs of the manufacturers of fibrocement elements.

Composition

In compliance with the chemical composition requirements specified in EN standard 197-1, Fibrocem has a clinker content ranging from 65% to 80% by cement mass and a limestone content ranging from 15% to 30% excluding calcium sulphate and additives, while the remaining percentage is made up of secondary constituents including microsilica.

Applications

On account of its special composition, Fibrocem can be used for manufacturing:

- flat or corrugated fibre cement plates
- chimney flues
- fibrocement pipes
- pipe fittings and special parts

Benefits

Fibrocem imparts enhanced plasticity properties to the fresh sheet during the manufacturing process and high strength to the finished products.

Fibrocem contains microsilica: this extremely fine, reactive material reacts chemically with the hydrolysis lime resulting from the hydration of clinker, thereby decreasing permeability, reducing the risk of efflorescence formation, and improving durability of the manufactured elements.

Precautionary measures

Although technically feasible, the use of Fibrocem in traditional concrete is to be assessed vis-à-vis the desired performance.

Standard requirements (UNI EN 197-1)

Chemical requirements*

Sulphates (come SO_3)	$\leq 3,5\%$
Chlorides	$\leq 0,10\%$

Physical requirements*

Initial setting time	≥ 75 min
Expansion	≤ 10 mm

Mechanical requirements*

Compressive strength	at 2 days	$\geq 10,0$ MPa
	at 28 days	$\geq 32,5$ MPa $\leq 52,5$ MPa

*Characteristic values

Packaging and storage

The retention period is shown on the transport document and possibly, where available, on the bag.

For professional use only. The user is advised to conduct tests and assessments in order to define the suitability of the product for the intended application.

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For Information

Technical Assistance

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