Product Data

Lignacite Fibo Enviro Block

Description

Composition

Fibo Enviro is manufactured from a expanded clay lightweight aggregate, and a mixture of other naturally occurring raw materials and cement. The expanded clay aggregate is manufactured from a special kind of clay which through heat expansion is transformed into lightweight porous granules with numerous cavities. This is what gives Fibo Enviro blocks their incredible lightweight properties.

Appearance

Produced in solid form, 440x100x215mm, Fibo Enviro blocks are extremely light, grey in colour and have an open textured finish. The faces of the Fibo Enviro block provide the ideal key for plastering.

Advantages

High Insulation

- Allowing thinner section of insulation to be used in order to meet current regulations
- Reducing overall wall thickness

Class 1 Fire Resistance

- Non combustible aggregate

Low Density

- Easy to handle
- One hand lift
- Increased productivity
- Reduced deadload

Good Fixability

- Ideal for direct nailing
- Provides easy and true drilling
- Drill and plug at speed
- Excellent for holding fixings securely

Excellent Plaster Key

- Open texture providing good key suitable for tiling
- No bonding agents required

Uses

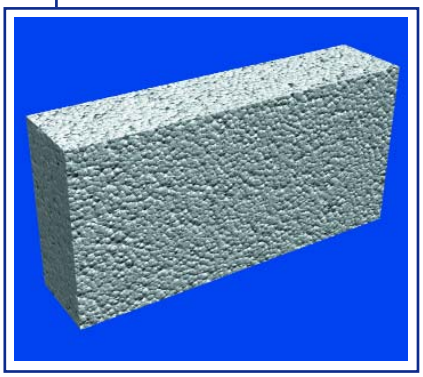
Suitable for use below DPC internally.

Standards

Fibo Enviro blocks are kitemarked as conforming to BS EN 771-3 Aggregate Concrete Masonry Units. They comply to Category 1 Masonry Units and are manufactured under a comprehensive Quality Assurance Scheme assessed and certified to BS EN 9001:2000 by the BSI.

Fire

Fibo Enviro masonry units provide excellent fire resistant properties.



Dimensional Tolerances	
Category:	D1
Flatness of surface:	N/a
Mean Unit Strength	
Lignacite Fibo Enviro:	3.6N/mm^2
Net Dry Density	
Lignacite Fibo Enviro:	890kg/m^3
Thermal Conductivity (W/mK)	
Lignacite Fibo Enviro:	0.31 (at 3%)
Based on tabulated values from BS EN 1745	0.34 (at 5%)
Water Vapour Diffusion Coefficient μ	
Lignacite Fibo Enviro:	5/15
Based on tabulated values from BS EN 1745	
Moisture Movement	
Lignacite Fibo Enviro:	<0.8mm/m
Water Absorption by Capillarity	
Lignacite Fibo Enviro:	<500g/m^2/S$^{0.5}$
Reaction to Fire	
Classification:	A1
Durability	
Based on tabulated values from BS 5628-3 table 12	Not to be left exposed
Bond Strengths	
Based on tabulated values from BS EN 998-2 Annex C	0.15N/mm^2

Note: Does not meet the flanking wall requirements of AD E 2003.

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Thermal Resistance - Table 1

Width (mm)	Form	Thermal Resistance (m^2K/W) 3%	5%
100	Solid	0.32	0.29
140	Solid	0.45	0.41

Unit Weights - Table 2

Width (mm)	Form	Unit Weight (kg)	Weight laid inc Mortar (kg/m^2)
100	Solid	8.5	100
140	Solid	12.0	135

Fire Resistances (hrs) - Table 3*

Width (mm)	Form	Loadbearing	Non Loadbearing
100	Solid	2	2
140	Solid	3	4

**Based upon single leaf with no finish*

Sound Insulation (Rw dB) - Table 4

Width (mm)	Form	Lightweight Plaster	Dense Plaster	Dry lined	Fair faced
100	Solid	39	40	38	N/A
140	Solid	41	41	40	N/A

Surface Finish Recommendations

- **Drylining**
  Application to be as manufacturer's recommendations.
- **Dense Plaster**
  Apply either 1:1:6 cement:lime:sand or 1:4½ masonry cement:sand or 1:5½ cement:sand & plasticiser or designation Grade III mortar/render.

  Alternatively: Thistle bonding or Thistle Hardwall or Knauf Ultimate backing plaster.
- **Finishing Coats**
  Thistle plaster finish or Thistle multi finish or Knauf Multi cover.
- **External Rendering**
  To be In accordance with BS 5262:1991.