

# FIBOLITE®

## ULTRA LIGHTWEIGHT AGGREGATE BLOCKS

**FIBOLITE** is an ultra lightweight load bearing block manufactured from Plasmor's own man-made expanded clay. Expanded clay nodules are produced by sophisticated pyrogenic technology whereby geochemically specific clay is expanded in a rotary kiln at high temperature. The clay nodule is an extremely lightweight granule with a hard vitrified outer shell and an air filled honeycombed inner.

**FIBOLITE** blocks are extremely lightweight, offer one hand lift laying, have excellent thermal efficiency values, provide an ideal key for plaster/render and accept fixings readily.

**FIBOLITE** blocks are especially suitable for house building, extensions, repair, maintenance and refurbishment projects.

The majority of the blocks in the **FIBOLITE** range comply with the 20kg single lift requirements of the Construction (Design and Management) Regulations.

### APPLICATIONS

*EXTERNAL WALLS - outer & inner leaf*

*INTERNAL PARTITION WALLS*

*COLUMN ENCASEMENT*

*INTERNAL LOADBEARING WALLS*

*WALLS BELOW DPC*



*Ultra Lightweight*



*High Thermal Efficiency*



*Low Shrinkage*



*Fire Resistant*



*Authority*



*Quality Assured*



*Excellent Fixability*



*Easily Cut and Chased*



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### AUTHORITY

Fibolite blocks are manufactured in production facilities to BS EN 771-3, with third party accreditation under BSI as follows:-

**BS EN ISO 9001**  
FM 10847 Certificate Number

**BS EN ISO 14001**  
EMS 536819 Certificate Number



**BES 6001**  
BES 585086 - 'Good' achieved

### FIBOLITE PACK SIZES (Metric)



75mm	12.0m <sup>2</sup>
90mm	10.4m <sup>2</sup>
100mm	9.6m <sup>2</sup>
140mm	6.4m <sup>2</sup>
190mm	4.8m <sup>2</sup>
215mm	4.0m <sup>2</sup>

### PROPERTIES AND PERFORMANCE



#### Mean Compressive Strength

 3.6 N/mm<sup>2</sup> (marked with YELLOW stripe).  
 7.3 N/mm<sup>2</sup> (marked with RED stripe).


#### Dry Density

 3.6 N - 850 Kg/m<sup>3</sup>.  
 7.3 N - 950 Kg/m<sup>3</sup>.


#### Thermal Value (at 3% moisture)

 k = 0.24W/m°C for 3.6 N.  
 k = 0.28W/m°C for 7.3 N.  
Fibolite blocks are Part L1A compliant\*.


#### Moisture Movement

 Not greater than 0.60mm/m\*.


#### Fire Resistance

 Fibolite is manufactured from Class 1 Fire Resistant Aggregate as defined in BS 5628 Part 3 and complies with BS EN 1996-1-2005.


#### Shear Bond Strength

 0.15 N/mm<sup>2</sup>.


#### Fixability

 Fibolite blocks accept direct nailing and are easy and speedy to drill and plug.

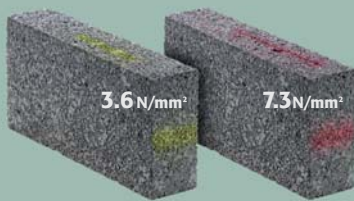
#### Mortar Designation

 **Class (iii)** for walls ABOVE DPC by volume  
Cement : Lime : Sand 1 : 1 : 6  
Cement : Sand 1 : 6  
**Class (ii)** for walls BELOW DPC by volume  
Cement : Lime : Sand 1 : 1/2 : 4  
Cement : Sand 1 : 3 to 4

#### Rendering

 Builders considering the use of proprietary single coat render systems must exercise caution to accurately adhere to the render manufacturers' design and specification guides. Furthermore, during application, strictly adhere to the specific and expansive application instructions, paying particular attention to prevailing weather conditions applied thereto. PLEASE NOTE that traditional rendering applications are not so seasonally and conditionally demanding.









\* Consult our technical department for further information.



### METRIC SIZES AND TYPES

Work Size 440mm x width x 215mm





Co-ordinating Size 450mm x width x 225mm

Type	75mm	90mm	100mm	140mm	190mm	215mm
Solid						
Reveal						

### MODULAR SIZES AND TYPES

Work Size 390mm x width x 190mm

Co-ordinating Size 400mm x width x 200mm

Type	90mm	100mm	140mm	190mm
Solid				

NOTES: Green shading denotes block weights of LESS THAN 20KG. For high strength blocks check with Divisional Sales Office.

\* Grey shading denotes block weights of more than 20kg.