

Uniclass L322	EPIC F611
CI/SFB (2-)	Ff5
2006	

PD14



## Product Data

## Ashlite

### Description

Lignacite Ltd Ashlite concrete blocks comprise a range of medium dense, load bearing units, 440 x 215mm face size used in internal or external walls. Ashlite blocks are dark grey in colour with a granular surface texture. It is a robust and durable block suitable for plastering or flooring.

Blocks are available as:

**Standard:** A clean face, suitable for locations where the block is not seen, or is rendered/ plastered etc.

### Manufacturing Process

Ashlite is manufactured from cement, sand, ash and other lightweight aggregates. It contains more than 50% of waste material and is compliant with the BREEAM standard.

### Uses

Suitable for use below DPC internally and externally in 7.3N/mm<sup>2</sup> strength, and below DPC internally in 3.6N/mm<sup>2</sup> strength.

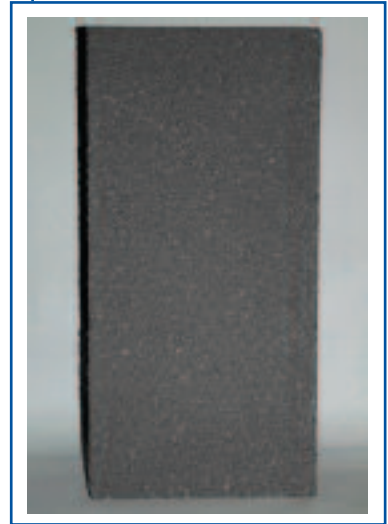
For block and beam flooring, 7.3N/mm<sup>2</sup> units are normally used internally and externally.

### Standards

Ashlite 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

Ashlite masonry units provide excellent fire resistant properties.



#### Dimensional Tolerances

Category:	D1
Flatness of surface:	N/A

#### Mean Unit Strength

Ashlite (all strengths):	3.6 & 7.3 & 10.4N/mm <sup>2</sup>
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#### Net Dry Density

Ashlite (all strengths):	1450kg/m <sup>3</sup>
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#### Thermal Conductivity (W/mK)

Ashlite (all strengths):	Internally 0.47
Based on tabulated values from BS EN 1745	Externally 0.51

#### Water Vapour Diffusion Coefficient $\mu$

Ashlite:	5/15
Based on tabulated values from BS EN 1745	

#### Moisture Movement

Ashlite:	<0.6mm/m
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#### Water Absorption by Capillarity

Ashlite:	<650g/m <sup>2</sup> /S <sup>0.5</sup>
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#### Reaction to Fire

Classification:	A1
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#### Durability

Based on tabulated values from BS 5628-3 table 12	3.6N/mm <sup>2</sup> (not to be exposed) 7.3N/mm <sup>2</sup> (frost resistant)
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#### Bond Strengths

Based on tabulated values from BS EN 998-2 Annex C	0.15N/mm <sup>2</sup>
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### Thermal Resistance - Table 1

Width (mm)	Form	Thermal Resistance (m <sup>2</sup> K/W)	
		3%	5%
100	Solid	0.212	0.196
140	Solid	0.298	0.274

### Unit Weights - Table 2

Width (mm)	Form	Unit Weight (kg)	Weight laid inc
			Mortar (kg/m <sup>2</sup> )
100	Solid	13.7	147
140	Solid	19.2	206

### Fire Resistances (hrs) - Table 3\*

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

\*Based upon single leaf with no finish.

### Sound Insulation Rw(C;Ctr)dB - Table 4

Width (mm)	Form	Lightweight Plaster	Dry lined	Paint	Fair faced
100	Solid	*42(-1;-4)	*42(-1;-4)	*41(-1;-4)	*37(-1;-4)
140	Solid	52(-1;-4)	51(-3;-8)	50(-1;-4)	38(0;-4)

\*Key: Estimated values, based upon mass law.

## Surface Finish Recommendations

- Drylining**  
 Application to be as manufacturer's recommendations.
- Dense Plaster**  
 Rake-back joints and apply stipple coat.  
 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, using initial spatterdash coat, consisting of 1 cement, 1 sand, gauged with a proprietary bonding agent (SBR).