

Medium density, loadbearing units, suitable for general purpose walling applications. Ashlite combines good all round technical performance with a high content of recycled material.

### General Properties - Table 1

Face Size	440mm x 215mm	
Dimensional Tolerances	Category: D1	
Mean Unit Strength	3.6,7.3, 10.4N/mm <sup>2</sup>	
Net Dry Density	1450 kg/m <sup>3</sup>	
Thermal Conductivity (W/mK) @ 3% moisture content	Internal: 0.47	External: 0.51
Moisture Movement	<0.6mm/m	
Reaction to Fire	Class A1	
Configuration	Solid Blocks: Group 1	



Recycled content ..... for specific details please contact the branch.

- Manufactured from 100% recycled aggregate conserving valuable sources of primary material
- Suitable for various applications above and below ground
- Good surface key for the direct application of plasters and renders
- Provides a strong background for all types of fixings

Ashlite is a medium density concrete block manufactured from 100% recycled aggregate conserving valuable sources of primary material. They are a robust and durable block suitable for a range of walling applications. This includes the inner leaf of cavity walls when used with cavity insulation, separating or partition walls, infill blocks in beam and block flooring systems. They can also be used externally where rendering or cladding is to be applied to the wall. Ashlite blocks provide a strong background for holding fixings.

### Appearance

Ashlite blocks are medium to dark grey in colour with a granular surface texture suitable for plastering or rendering. They have a face size of 440mm x 215mm and are available in 100mm and 140mm widths in solid form only.

### Standards

Ashlite blocks are BSI Kitemarked approved to BS EN 771-3. They are Category 1 masonry units manufactured under a BSI certified Quality System complying with BS EN 9001.

### Applications

Ashlite blocks can be considered for use in the following locations:

- Inner and outer leaves of external cavity walls
- Internal walls, including fire break walls
- Separating walls including those conforming to Robust Detail specifications
- External and internal walls below ground (7.3N/mm<sup>2</sup> strength blocks should be used to walls exposed to the external ground)
- Infill units to beam and block flooring

### Sound Insulation

Ashlite blockwork provides excellent levels of sound insulation between buildings and adjoining rooms. It can be used in party wall constructions, based on lightweight blockwork specifications, detailed in Approved Document E to the Building Regulations. It can also be used to construct party walls meeting Robust Detail specifications eg. Robust Details E-WM-2, 4, 8,11,14,17, 19, 20 and 21.



## Sustainability

*Responsible sourcing* - Lignacite Ltd operates its manufacturing plants to a BSI certified Environmental Management System (EMS) complying with ISO14001. Lignacite Ltd. complies with the requirements of BES 6001 – Framework Standard for the Responsible Sourcing of Construction Products, Certificate No: BES 580823. This independently confirmed Responsible Sourcing Certification provides re-assurance to our customers that they are procuring products responsibly and sustainably. Credits can also be gained under environment assessment schemes such as BREEAM and the Code for Sustainable Homes.

*Environmental ratings* - Summary green guide ratings applicable to Ashlite blocks can be obtained from the BRE Green Guide to Specification.

## Design

The design of walls incorporating Ashlite blocks should be in accordance with relevant European design standards including BS 8103: Parts 1 and 2 and requirements of the Building Regulations.

## Surface Finish Recommendations

*Drylining* - Application to be as manufacturer's recommendations.

*Dense Plaster* - Apply either 1:1:6 cement:lime:sand or 1:4 ½ Masonry cement:sand or 1:5 ½ cement:sand and plasticiser.

*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* - Rendering to be in accordance with BS EN 13914-1. Avoid over strong mixes. Ensure the first coat of render is applied to a greater thickness than successive coats. Ensure the first coat of render is applied to a greater thickness than successive coats. 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.

## Movement Control

Movement joints should be considered in accordance with PD 6697 at approximately 6.0 metre spacings. In areas of concentrated stress, such as those above and below openings, consideration should be given to the use of bed joint masonry reinforcement.

## Mortar

The mortar type for work above ground level should be designation (iii) / Compressive Class M4. Stronger mixes may be used only with the permission of the designer. Stronger mixes may also be required for work below ground in accordance with PD 6697.

### Block Weights - Table 2

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

Note: Weights are based on 3% moisture content by weight.

### Thermal Resistances - Table 3

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

Note: 3% moisture content (m/c) should be used for protected locations such as the inner leaf, and 5% for exposed locations such as the outer leaf when rendered.

### Sound Reduction - Table 4

Width (mm)	Form	Sound Reduction Index Rw (dB)	
		L/tweight Plaster	Dry Lined
100	Solid	42	42
140	Solid	52	51

Notes: The above values are based on technical assessments and tests to BS EN ISP 140-3

Surface finishes are assumed to be applied to both wall faces

### Fire Resistances - Table 5

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

Note: The above values are for single leaf walls with no finish.

### Accreditations

