

## Product Data

## Ashlite 'Waste Not Warrior'

### Description

Waste not Warrior (Ashlite) is a medium density concrete block manufactured from 100% recycled aggregate conserving valuable sources of primary material. It is a robust and durable block suitable for a range of walling applications as well as for use as infill units in beam and block flooring. It provides a strong background for holding fixings and applying finishes such as plaster and rendering.

### Appearance

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

### Standards

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

### Uses

Ashlite blocks are suitable for use in commercial and housing projects including extensions. As a guide they can be used to the following locations:

- The inner and outer leaves of external cavity walls,
- Internal walls including fire break walls
- Separating walls including cavity walls conforming to a number of 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.

Ashlite blocks are generally intended for applications where the blockwork will not be exposed. Paint grade and Fair faced products are available in other product ranges.

### Design

The design of walls incorporating Ashlite blocks should be in accordance with BS 5628-Parts 1 2 and 3, or relevant European design standards, and the requirements of the Building Regulations.

### Sustainability

#### Responsible sourcing

Lignacite Ltd. operates its manufacturing plants to a BSI certified Environmental Management System (EMS) complying with ISO14001. An EMS is also held by our key supply chain processes, as specified in the *Responsible sourcing* assessment criteria of BREEAM and the Code for Sustainable Homes. This level of responsible sourcing assurance can contribute towards the required BREEAM rating or Code assessment.

#### Environmental ratings

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



### Sound Insulation

Ashlite blocks, when used to the inner leaf, are suitable to meet the flanking sound requirements of Building Regulations and a number of Robust Detail specifications. Ashlite can also be used to construct internal walls between rooms in dwellings that are required to meet a minimum sound reduction,  $R_w$ , of 40 dB. This can be met using minimum width 100mm blocks with any type of surface finish.

### Technical Properties

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

## Technical Performance

**Block weights - Table 1**

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 2**

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

**Note.** 3% moisture 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 3**

Width (mm)	Form	Sound Reduction Index, Rw (dB)	
		L/weight plaster	Dry lined
100	Solid	42	42
140	Solid	52	51

**Note.** The above values are estimated values for single leaf walls based on the mass law, and assume surface finishes are applied to both wall faces.

**Fire Resistances - Table 4**

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 no finish.

## 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.

## Movement Control

Movement joints should be considered in accordance with BS 5628-3 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 required for use below ground in accordance with BS 5628-3.

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