

Product Data

Ashlite

Medium density, loadbearing units, suitable for general purpose walling applications.
Good all round technical performance, high recycled content.



- Manufactured from 100% recycled aggregate conserving valuable sources of primary material.
- Suitable for various applications above and below ground.
- Strong background for direct application of plasters and renders and to secure fixings.

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 have a face size of 440mm x 215mm and are available in 100mm and 140mm widths in solid form only.

Technical Properties

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

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:

- The 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/mm² 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, for cavity walls in dwellings specified in Approved Document E to the Building Regulations. It can also be used to construct party walls meeting Robust Detail specifications e.g. Robust Details E-WM-2, 4, 8, 11, 14, 17 and 19.

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 its key supply chain processes, as specified in the *Responsible sourcing* assessment criteria of BREEAM and the Code for Sustainable Homes. This assured level of responsible sourcing can contribute towards the required BREEAM rating or Code assessment.

Environmental ratings

Summary green guide ratings applicable to Fibo 800 can be obtained from the BRE Green Guide to Specification.

Block weights - Table 1

| Width (mm) | Form | Unit weight (kg) | Laid weight (kg/m ²) |
|------------|-------|------------------|----------------------------------|
| 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 ² 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 for single leaf walls and the 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 with no finish.

Design

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

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 used only with the permission of the designer. Stronger mixes may also be required for work below ground in accordance with BS 5628-3.

Lignacite Ltd.

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| High Street | Meadgate Works |
| Brandon | Nazeing |
| Suffolk IP27 0AX | Waltham Abbey |
| Tel: 01842 810678 | Essex EN9 2PD |
| Fax: 01842 814602 | Tel: 01992 464441 |
| E-mail: info@lignacite.co.uk | Fax:01992 445713 |

