



Close textured Paint Grade blocks, conforming to manual handling guidelines, in a 190mm block width.

190mm width LignacITE Paint grade solid blocks have been developed for use in commercial buildings with the following advantages:

- For aesthetic applications where the blockwork is required to be directly decorated
- Conforms to the 20kg single lift guidance of the Construction (Design and Management) Regulations
- Use in loadbearing and non-loadbearing walls
- Allows large panels to be designed reducing the need for wind posts or other structural framing
- Good all round technical performance.



*The NEW 190mm paintgrade block*

LignacITE Paint Grade blocks are a lightweight building product manufactured to the requirements of BS EN 771-3 using carefully selected lightweight aggregates. LignacITE Paint Grade blocks have a face size of 440mm x 215mm and are available in a block width of 190mm. Their use will assist designers and contractors in meeting the requirements of the Construction Design and Management Regulations.

### General Properties - Table 1

Face Size	440mm x 215mm
Block Width	190mm
Dimensional Tolerances	Category: D1
Mean Unit Strength	3.6, 7.3N/mm <sup>2</sup>
Net Dry Density	1030kg/m <sup>3</sup>
Thermal Conductivity @ 3% moisture content	0.37 W/mK
Moisture Movement	<0.9mm/m
Reaction to Fire	Class A1
Configuration	Solid Block: Group 1
Air Tightness	Painted one face 9.1m <sup>3</sup> /hr/m <sup>2</sup> : Painted two Faces: 4.0m <sup>3</sup> /hr/m <sup>2</sup>
Specific Heat Capacity	1000 J/kg/K
Water Vapour Diffusion Coefficient	$\mu = 5/15$ (Tabulated value from BS EN 1745)

### Appearance

LignacITE Paint Grade blocks are medium grey to buff in colour with a close texture surface suitable for the direct application of paint. They are available in solid form.

### Standards

LignacITE 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

LignacITE Paint Grade blocks are ideal to construct internal walls in commercial projects where a low self-weight of blockwork is required. As a guide they can be used to the following building types:

- Offices
- Warehouses
- Data Centres
- Sports halls and facilities
- Factory units

### Sustainability

*Responsible sourcing* - Lignacite Ltd operates its manufacturing plants to a BSI certified Environmental Management System (EMS) complying with ISO 14001. 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 LignALITE blocks can be obtained from the BRE Green Guide to Specific Guide to Specification.

### Design

The design of walls incorporating LignALITE blocks should be in accordance with relevant design standards including BS 8103 Part 2 and BS EN 1996-1-1 and requirements of the Building Regulations.

### Surface Finish Recommendations

*Decoration* - Walls can be directly painted using emulsion or cement based paints. For an economical finish, a mist coat and 2 further coats of emulsion will provide good coverage. Coverage will depend on the method of application e.g. brush or spray application.

*Drylining* - Where one side of the wall is required to be drylined, follow the manufacturer's recommendations.

*Dense Plaster* - Where one side of the wall is required to be finished with dense plaster, apply a backing coat comprising 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.

### 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 PP 6697.

### Performance - Table 2

Property	Performance
Unit weight	19.1 kg
Laid weight inc. mortar	210 kg/m <sup>2</sup>
Thermal resistance	0.51 m <sup>2</sup> K/W
Weighted Sound Reduction Index Rw (dB)	No finish - 45 Rw (dB) Painted - 51 Rw (dB)
Fire resistance	4 hours loadbearing 4 hours non-loadbearing

### Note:

1. Unit and laid weights are based on 3% moisture content by weight.
2. Sound insulation values for a painted finish are based on use of two coats of emulsion paint to one or both faces.
3. Fire resistance in accordance with BS EN 1996-1-2:2005

### Accreditations

