

# LIGNACITE

Concrete Masonry Products

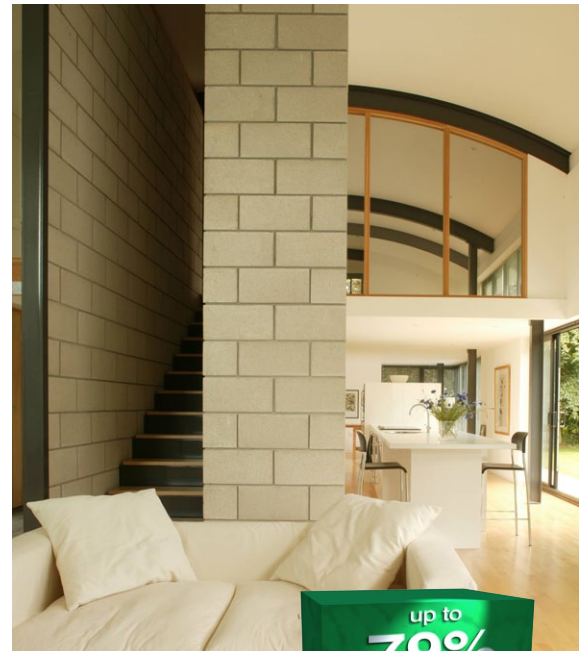
## PREMIER FACING MASONRY

The Lignacite Ltd Premier Facing Masonry range was created to provide high quality smooth faced coloured masonry that offers a fine textured surface and clean, crisp edges. The blocks can be used internally or externally and allow designers to be creative yet safe in the knowledge that they are also specifying a durable product.

They are made to order and manufactured from cement, a variety of pigments and a unique blend of natural aggregates which have been carefully selected to give a close grading structure. The standard face size is 440 x 215mm and the 100mm width in solid form is the most popular. However there are a number of other options available relating to width and form (cellular, hollow etc) - Please refer to details overleaf.

**Standards** - Premier Facing Masonry blocks are BSI Kitemarked and comply with BS EN 771-3. They are Category 1 masonry units manufactured under a BSI certified quality assurance scheme operated in accordance with BS EN ISO 9001.

**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.



Private Dwelling, Fressingfield

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

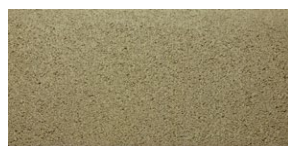
This independently confirmed Responsible Sourcing Certification provides re-assurance to our customers that they are procuring products responsibly and sustainably. Credits can also be gained under environment assessment schemes such as BREEAM and the Code for Sustainable Homes.



### Premier Swatches



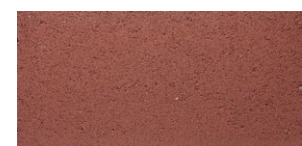
Pearl



Cream



Sandstone



Rose



Pale Jade



Jade



Oyster



Silver Grey

**Finished Faces** - Blocks from the Premier range are sold as being fair-face one face and one end. If when block-laying a face is found to be damaged then the block can be turned round so the opposite face can be used.

**Cleaning** - Facing Masonry blocks are naturally durable and maintain their appearance with simple cleaning techniques, even in conditions of hard use. Contact Lignacite for information about specific cleaning recommendations, should this be necessary. See also SW4 from the Site-work section.

**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.

**General Physical Properties - Table 1**

Dimensional Tolerance	Category: (Generally the tolerances we achieve are tighter than this) Flatness of surface:	D1 <2mm
Mean Unit Strength		10.4 N/mm <sup>2</sup> Solid 7.3 N/mm <sup>2</sup> C/H
Net Dry Density		1950kg/m <sup>3</sup>
Thermal Conductivity	Based on tabulated values from EN 1745	Internally 1.28 Externally 1.37
Water Vapour Diffusion	Based on tabulated values from EN 1745	5/15 μ
Moisture Movement		<0.8mm/m
Water Absorption by Capillarity		<100g/m <sup>2</sup> /S <sup>0.5</sup>
Reaction to Fire	Classification to EN 13501-1	A1
Durability	Based on tabulated values from PD 6697	Frost resistant
Shear Bond Strength	Based on tabulated values from EN 998-2 Annex C	0.15N/mm <sup>2</sup>
Configuration	To EN 1996-1-1: Solid units: Group 1, Cellular/Hollow units: Group 2	
Air Tightness	Air leakage at 50 pascals - (100mm solid blocks)	3.12 m <sup>3</sup> .h <sup>-1</sup> .m <sup>-2</sup>

We have a variety of block machine moulds that enable us to produce masonry in sizes other than the most popular ones shown in the tables below. These include metric modular blocks which have a face size of 390x190mm. For further details of other available sizes, please contact our Brandon office.

**Thermal Resistance - Table 2**

Width (mm)	Form	Thermal Resistance (m <sup>2</sup> K/W)	
		3%	5%
100	Solid	0.078	0.073
140	C/H	0.167	0.160
140	Solid	0.109	0.102

**Unit Weights - Table 3**

Face Size		Unit Weight (kg)	Weight Laid inc Mortar (kg/m <sup>2</sup> )
Width (mm)	Form		
440 x 215mm except †			
100	Solid	18.4	194
140	C/H	19.5	209
140	Solid	25.8	272
440x100x65 †	Solid	5.6	192

† Roman Brick

**Fire Resistances (Hrs) - Table 4\***

Width (mm)	Form	Loadbearing	Non Loadbearing
100	Solid	2	2
140	C/H	-	3
140	Solid	2	3

\*Based upon single leaf with no finish.

Key: C/H=Cellular or Hollow

**Sound Reduction Index Rw(dB) - Table 5††**

Width (mm)	Form	Fair Faced Wall
100	Solid	43
140	C/H	43
140	Solid	45

†† Sound Reduction values are indicative of performance and are based on tests to materials of similar density.

**Sound Absorption - Table 6\*\***

Frequency	Sound absorption coefficient α <sub>p</sub>
125	0.05
250	0.05
500	0.10
1000	0.15
2000	0.10
4000	0.10
Weighted Sound Absorption Coefficient α <sub>w</sub>	0.15
Classification of Sound Absorption	Class E

\*\* Estimated Values

**Accreditations**

