

Lignacite Ltd Riverbed Facing Masonry blocks are designed for internal or external situations. This range offers a different palette of colours and the blocks exhibit more earthy tones.

They are made to order and manufactured from cement, sand, riverbed gravel and a variety of pigments (except Amber).

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** - Riverbed 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.



UEA, Norwich

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.



Riverbed Facing Masonry blocks are available in the following finishes:

<b>Natural</b>	A smooth fair face finish created by our high quality block machine moulds. Only the colour Amber is available in the Natural finish.
<b>Weathered</b>	Produced by shot-blasting the blocks and thereby exposing the aggregates beneath the surface. Available in all our standard sizes and forms and in a choice of four colours.
<b>Split</b>	Created by splitting each block individually, creating a craggy stone-like texture. Available in 100mm and 140mm widths (solid form only) and in a choice four colours. The nature of the splitting process limits the range of shapes available to those that can be formed by cutting and/or cutting and bonding. Such units include cut to length blocks, blocks with a finished end (weathered or split), and quoins.

**Finished Faces** - Blocks from the Riverbed range (Weathered and Split) are finished on ONE face. Where the end of a block is to be laid fair and seen then the specification should call for blocks to be finished ONE FACE & ONE END. Please note: The backs of the blocks are non-facing, unless specified otherwise.

The only exception is Amber Natural which is sold as fair-faced ONE FACE & ONE END. If when block laying a face of Amber Natural 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.

Natural

Weathered

Split



Amber



Carmine



Charcoal



Coral



Terracotta

**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: (only applicable to Amber Natural)	D1 <2mm
Mean Unit Strength		17.5 N/mm <sup>2</sup> Solid 7.3 N/mm <sup>2</sup> C/H
Net Dry Density		2000kg/m <sup>3</sup>
Thermal Conductivity	Based on tabulated values from EN 1745	Internally 1.33 Externally 1.43
Water Vapour Diffusion	Based on tabulated values from EN 1745	5/15 μ
Moisture Movement		<0.8mm/m
Water Absorption by Capillarity		<200g/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	

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. We also produce 440mm long x 65mm high blocks, which we call Roman Brick. 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	0.075	0.070
140	C/H	0.162	0.155
140	Solid	0.105	0.098

**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 †		3% m/c	
100	Solid	18.9	198
140	C/H	19.8	214
140	Solid	26.5	278
440 x 100 x 65†		5.7	196

† 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	44
140	C/H	44
140	Solid	47

†† 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 $\alpha_p$
125	0.15
250	0.30
500	0.30
1000	0.35
2000	0.30
4000	0.30
Weighted Sound Absorption Coefficient $\alpha_w$	0.35
Classification of Sound Absorption	Class D

\*\*Estimated values.

**Accreditations**

