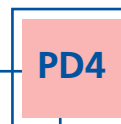


Uniclass L322	EPIC F611
CI/SfB (2-)	Ff5
2006	



# Product Data

## Riverbed Facing Masonry

### Description

Lignacite Ltd Riverbed Facing Masonry blocks, 440x215mm face size,\* are designed for internal or external situations combining inherent decorative appeal with strength and durability.

Manufactured from cement, sand and riverbed gravel, coloured with pigments, in a choice of three finishes, they are available in an extensive range of widths and strengths, in solid, hollow and cellular forms.

Riverbed Facing Masonry blocks are available as:

**Natural**, available in all our standard sizes and forms, suitable where crisp precision of surface finish is required. In Amber colour only.

**Weathered**, is produced by shotblasting the block, exposing the aggregates to enhance the colour and the texture. Available in all our standard sizes and forms in a choice of four colours.

**Split**, is produced by splitting each block individually, creating a craggy and stone-like texture. Available in 100 and 140mm widths, solid form only and in a choice of four colours.

The nature of the splitting process limits the range of shapes available to quoins and also shapes formed by cutting and chamfering full blocks. Split face 100mm full length blocks are available with split ends. (Note: ¾ and ½ length split ends are also available).

### Uses

Suitable for use below DPC both internally and externally.

Lignacite Ltd does not recommend the use of cellular or hollow units for external use.

### Standards

Riverbed Facing Masonry blocks are kitemarked as conforming to BS EN 771-3 Aggregate Concrete Masonry Units. They comply to Category 1 Masonry Units and are manufactured

under a comprehensive Quality Assurance Scheme assessed and certified to BS EN 9001:2000 by the BSI.

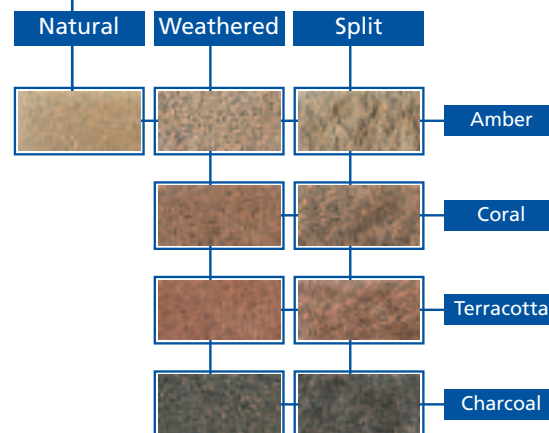
### Fire

Facing masonry units provide excellent fire resistant properties.

*\*Metric Modular (390x190mm) blocks are available to special order in 90mm, 140mm solid form, and 190mm widths in both solid & hollow form. These units are available in all finishes except polished. (Split units are only available in 95mm width).*

*Note: Low Height Units (440x140x140mm)*

*To aid compliance with the Manual Handling Legislation whilst allowing 140mm solid dense wall to be constructed, Lignacite Ltd have introduced this unit that weights 17.3kg each, available to special order in all finishes.*



### Dimensional Tolerances

Category:	D1
(Closer tolerances are available on request)	
Flatness of surface:	<2mm
(only applicable to natural facing units)	

### Mean Unit Strength

Riverbed Facing Masonry:	17.5N/mm <sup>2</sup> Solid form
	7.3N/mm <sup>2</sup> CH

### Net Dry Density

Riverbed Facing Masonry:	2000kg/m <sup>3</sup>
--------------------------	-----------------------

### Thermal Conductivity (W/mK)

Riverbed Facing Masonry:	Internally 1.33
Based on tabulated values from BS EN 1745	Externally 1.43

### Water Vapour Diffusion Coefficient μ

Riverbed Facing Masonry:	5/15
Based on tabulated values from BS EN 1745	

### Moisture Movement

Riverbed Facing Masonry:	<0.8mm/m
--------------------------	----------

### Water Absorption by Capillarity

Riverbed Facing Masonry:	<200g/m <sup>2</sup> /S <sup>0.5</sup>
--------------------------	--

### Reaction to Fire

Classification:	A1
-----------------	----

### Durability

Based on tabulated values from BS 5628-3 table 12	Frost resistant
---	-----------------

### Bond Strengths

Based on tabulated values from BS EN 998-2 Annex C	0.15N/mm <sup>2</sup>
--	-----------------------

For information about shapes, see section PD10. For details of Hollow and Cellular blocks, see fig DC7 in Design Section. For information about the characteristic compressive strength of masonry fk, see section DC8.

# Product Data

# Riverbed Facing Masonry

### Thermal Resistance - Table 1

Width (mm)	Form	Thermal Resistance (m <sup>2</sup> K/W)	
		3%	5%
75	Solid	0.056	0.052
90	Solid	0.068	0.063
100	Cellular	0.126	0.120
100	Solid	0.075	0.070
140	C/H	0.162	0.155
140	Solid	0.105	0.098
150	Solid	0.113	0.105
190	Hollow	0.195	0.187
190	Solid	0.143	0.133
200	Solid	0.150	0.140
215	Hollow	0.207	0.199
215	Solid	0.162	0.150

### Unit Weights - Table 2

Width (mm)	Form	Unit Weight (kg)	Weight laid inc Mortar (kg/m <sup>2</sup> )
90	Solid	17.0	179
100	Cellular	15.5	165
100	Solid	18.9	198
140	C/H	20.0	214
140	Solid	26.5	278
150	Solid	28.4	298
190	Hollow	25.0	269
190	Solid	35.9	377
200	Solid	37.8	397
215	Hollow	27.5	297
215	Solid	40.7	427

### Fire Resistances (hrs) - Table 3\*

Width (mm)	Form	Fire Resistance (hrs)	
		Loadbearing	Non Loadbearing
75	Solid	-	1
90	Solid	1	1.5
100	Cellular	-	0.5
100	Solid	2	2
140	C/H	-	3
140	Solid	2	3
150	Solid	2	4
190	Hollow	-	4
190	Solid	2	4
200	Solid	2	6
215	Hollow	-	6
215	Solid	2	6

\*Based upon single leaf with no finish  
Key: C/H=Cellular or Hollow.

### Sound Absorption - Table 5

Frequency (Hz)	Sound absorption coefficient a <sub>p</sub>
125	0.15
250	0.30
500	0.30
1000	0.35
2000	0.30
4000	0.30
Weighted Sound Absorption Coefficient a <sub>w</sub>	0.35
Classification of Sound Absorption	Class D

Sound Absorption coefficient (a<sub>p</sub>) measurements of 100mm thicknesses of Lignacite were made in the AIRO acoustics Laboratory. The measurements were made in 1/3 octave bands from 100Hz to 5000Hz in accordance with BS EN 20354: 1993.

From the results of the measurements the octave band Practical Sound Absorption Coefficient (a<sub>p</sub>), single figure Weighted Sound Absorption Coefficient (a<sub>w</sub>) and Sound Absorption Class have been determined in accordance with BS EN ISO 211654: 1997.

### Surface Finish Recommendations

- Fair faced work**  
Natural blocks have one face and one end finished. All other facing masonry blocks have one face only finished. **Where Weathered block ends are exposed, these should be specified to be supplied finished face and end.** Full length, split face and end blocks are available to order in 100mm only.
- Cleaning**  
Facing masonry blocks are naturally durable and maintain their appearance with simple cleaning techniques, even in conditions of hard use. Contact Lignacite Ltd for information about specific cleaning recommendations, should this be necessary. See also SW4 from the Sitework section.

### Where back of block is to be treated

- Drylining**  
Application to be as manufacturer's recommendations.
- Dense Plaster**  
Rake-back joints and apply stipple coat.  
Apply either 1:1:6 cement:lime:sand or 1:4½ masonry cement:sand or 1:5½ cement:sand & plasticiser or designation Class III render.  
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**  
To be in accordance with BS 5262: 1991.

### Sound Insulation Rw(C;Ctr)dB - Table 4

Width (mm)	Form	Sound Insulation Rw(C;Ctr)dB			
		Lightweight Plaster	Dense Plaster	Dry lined	Fair faced
75	Solid	-	-	-	30(-1;-4)
90	Solid	-	-	-	34(-1;-4)
100	Cellular	-	-	-	36(-1;-4)
100	Solid	-	-	-	37(-1;-4)
140	C/H	-	-	-	44(-1;-4)
140	Solid	-	-	-	47(-1;-4)
150	Solid	-	-	-	49(-1;-4)
190	Hollow	-	-	-	52(-1;-4)
190	Solid	-	-	-	55(-1;-4)
200	Solid	-	-	-	56(-1;-4)
215	Hollow	-	-	-	53(-1;-4)
215	Solid	-	-	-	57(-1;-4)