

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

PD13



Product Data

Premier Facing Masonry

Description

Lignacite Ltd Premier Facing Masonry should be used where a smooth surface and accurate dimensions are required. The fine texture of the block creates a clean, crisp edge that will enhance design details. The blocks can be used internally and externally combining creativity and durability.

Premier Facing Masonry is available in 7 colour options and face size 440x215mm*.

Manufacturing Process

Manufactured from a blend of natural aggregates which have been carefully selected to give a close grading structure.

Special Shapes

A range of special shapes are available, including trough lintel blocks. Special shapes can be produced to meet particular requirements.

Uses

Suitable for use both internally and externally, above and below dpc.

Standards

Premier 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

Premier 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 natural finish only.*

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 17.3 kg each, available to special order in all finishes.



Dimensional Tolerances

Category:	D1
(Closer tolerances are available on request)	
Flatness of surface:	<2mm

Mean Unit Strength

Premier Facing Masonry:	7.3N/mm ² (Solid form)
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Net Dry Density

Premier Facing Masonry:	1950kg/m ³
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Thermal Conductivity (W/mK)

Premier Facing Masonry:	Internally 1.28
Based on tabulated values from BS EN 1745	Externally 1.37

Water Vapour Diffusion Coefficient μ

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

Moisture Movement

Premier Facing Masonry:	<0.8mm/m
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Water Absorption by Capillarity

Premier Facing Masonry:	<100g/m ² /S ^{0.5}
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Reaction to Fire

Classification:	A1
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Durability

Based on tabulated values from BS 5628 table 12	Frost resistant
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Bond Strengths

Based on tabulated values from BS EN 998-2 Annex C	0.15N/mm ²
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Thermal Resistance - Table 1

Width (mm)	Form	Thermal Resistance (m ² K/W)	
		3%	5%
75	Solid	0.059	0.055
90	Solid	0.070	0.066
100	Cellular	0.127	0.120
100	Solid	0.078	0.073
140	C/H	0.167	0.160
140	Solid	0.109	0.102
150	Solid	0.117	0.109
190	Hollow	0.198	0.189
190	Solid	0.148	0.139
200	Solid	0.156	0.146
215	Hollow	0.210	0.202
215	Solid	0.168	0.157

Unit Weights - Table 2

Width (mm)	Form	Unit Weight (kg)	Weight laid inc Mortar (kg/m ²)
90	Solid	16.6	175
100	Cellular	15.1	161
100	Solid	18.4	194
140	C/H	19.5	209
140	Solid	25.8	272
150	Solid	27.6	291
190	Hollow	23.2	252
190	Solid	35.0	369
200	Solid	36.8	388
215	Hollow	25.5	278
215	Solid	39.6	417

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	6	6

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

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	-	-	-	41
90	Solid	-	-	-	42
100	Cellular	-	-	-	42
100	Solid	-	-	-	43
140	C/H	-	-	-	43
140	Solid	-	-	-	45
150	Solid	-	-	-	45
190	Hollow	-	-	-	44
190	Solid	-	-	-	47
200	Solid	-	-	-	47
215	Hollow	-	-	-	45
215	Solid	-	-	-	48

Key: Estimated values based upon mass law.

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.
- 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 1:4¹/₄ masonry cement:sand or 1:5¹/₂ 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 Absorption - Table 5

Frequency (Hz)	Sound absorption coefficient a _p
125	0.05
250	0.05
500	0.10
1000	0.15
2000	0.10
4000	0.10
Weighted Sound Absorption Coefficient a _w	0.15
Classification of Sound Absorption	Class E

Key: Estimated values.