

Stone Faced Masonry blocks offer the customer the opportunity to use high quality natural stone, namely granite and marble in a conventional manner using a bed of mortar and in a very cost-effective way.

They are made to order in one size 440mm long x 100mm wide x 215mm high and at present there are two stone options, black granite (Midnight) and white marble (Moonlight). The only available finish is polished. These products offer load-bearing units that have polished faces of an exceptional calibre, for example the black granite Midnight Polished block has a sheen that is the equivalent of a mirror finish.

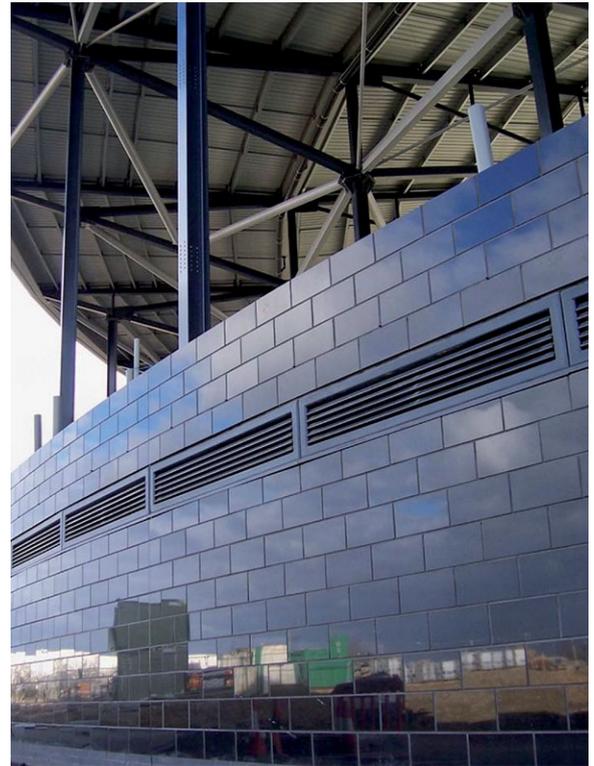
Manufacturing Process - The granite and marble slips are approximately 10mm thick and they are bonded onto 90mm thick Lignacrete dense concrete backing blocks. The bonding process uses the latest construction adhesive technology and this has been rigorously tested for shear resistance and for pull-off. In addition the finished product has been subjected to a fire test and a freeze thaw process.

Specials Shapes - A small range of special shapes can be produced. These include quoins (to various external angles), polished one face and one end blocks and pistol blocks.

Standards - Lignacrete backing blocks are BSI kite-marked 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 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.



Stadium MK, Milton Keynes

Stone Faced Swatches



Midnight Polished



Moonlight Marble

Finished Faces - Blocks from the Stone Faced range 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.

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		7.3N/mm ² Solid form only
Net Dry Density		Approx 2000kg/m ³
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		<0.6mm/m
Water Absorption by Capillarity		<200g/m ² /S ^{0.5}
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 ²
Configuration	To EN 1996-1-1: Solid units: Group 1	

Thermal Resistance - Table 2

Width (mm)	Form	Thermal Resistance (m ² K/W)	
		3%	5%
100	Solid	0.068	0.063

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

Width (mm)	Form	Fair Faced Wall
100	Solid	43

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

Unit Weights - Table 3

Face Size 440 x 215mm Width (mm)	Form	Unit Weight (kg)	
		3% m/c	Weight Laid inc Mortar (kg/m ²)
100	Solid	19.6	205

Sound Absorption - Table 6**

Frequency	Sound absorption coefficient α_p
125	0.01
250	0.01
500	0.01
1000	0.01
2000	0.01
4000	0.01
Weighted Sound Absorption Coefficient α_w	0.01

** Estimated Values

Fire Resistances (Hrs) - Table 4*

Width (mm)	Form	Loadbearing	Non Loadbearing
100	Solid	1	1.5

*Based upon single leaf with no finish.

Key: C/H=Cellular or Hollow

Accreditations

