

Sahara Facing Masonry is a small range of medium density products that have a particularly close-textured surface that results from a unique blend of raw materials. The blocks can be used internally or externally, although their "softer," less abrasive surfaces makes them particularly suitable for internal situations such as sports halls, corridors and the like.

They are made to order and manufactured from cement, sand and most importantly graded wood particle (GWP). This enables the raw materials to bind together very tightly to give a smooth even finish. GWP is a "true" re-cycled material that we source from local saw mills. It also provides the blocks with increased insulation properties whilst reducing their weight.

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 - Sahara Facing Masonry 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 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.



RAF Cranwell

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.



Sahara Swatches



Sahara Pearl



Sahara Dune

Finished Faces - Blocks from the Sahara 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		7.3 N/mm ² Solid form 3.6 N/mm ² C/H
Net Dry Density		1700kg/m ³
Thermal Conductivity	Based on tabulated values from EN 1745	Internally 1.08 Externally 1.15
Water Vapour Diffusion	Based on tabulated values from EN 1745	5/15 μ
Moisture Movement		<0.8mm/m
Water Absorption by Capillarity		<100g/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, Cellular/Hollow units: Group 2	
Air Tightness	Air leakage at 50 pascals - (100mm solid blocks)	2.09 m ³ .h ⁻¹ .m ⁻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. For further details of other available sizes, please contact our Brandon office.

Thermal Resistance - Table 2

Width (mm)	Form	Thermal Resistance (m ² K/W)	
		3%	5%
100	Solid	0.093	0.087
140	C/H	0.187	0.179
140	Solid	0.130	0.122

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

Width (mm)	Form	Fair Faced Wall
100	Solid	46
140	C/H	47
140	Solid	50

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

Unit Weights - Table 3

Face Size		Unit Weight (kg)	Weight Laid inc Mortar (kg/m ²)
Width (mm)	Form		
440 x 215mm except †			
100	Solid	16.1	171
140	C/H	17.0	184
140	Solid	22.5	239
440x100x65 †	Solid	4.9	171

† Roman Brick

Sound Absorption - Table 6**

Frequency	Sound absorption coefficient α _p
125	0.15
250	0.25
500	0.35
1000	0.40
2000	0.45
4000	0.45
Weighted Sound Absorption Coefficient α _w	0.40
Classification of Sound Absorption	Class D

** Estimated Values

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

Accreditations

