

# Lakeland PAVERS®

Paving The Way

## COMMON MASONRY UNITS - PRODUCT INFORMATION

### Hollow (Group 2)

Face Size:	440 x 215mm
Gross Dry Density:	1380Kg/m <sup>3</sup>
Net Dry Density:	1980Kg/m <sup>3</sup>
Total volume of voids:	30%
Volume of largest void:	15%
Thickness of web:	50mm
Thickness of shells:	50mm
Combined thickness of webs & shells:	Face to face - 100mm. Header to header - 150mm
Area of voids on bed face:	30% (both faces)

Thickness (mm)	Mean Strengths (N/mm <sup>2</sup> )	Finishes (S, FF, PG)	Dry Weight (Kg)	Weight Laid (Kg/m <sup>2</sup> )	R-Value (m <sup>2</sup> K/W)	Fire Resistance (hours) - Load Bearing	Number Per Pack	m <sup>2</sup> Laid Per Pack
215	3.6	S	27.5	290	0.23	2	40	4.05

### Cellular (Group 2)

Face Size:	440 x 215mm
Gross Dry Density:	1330Kg/m <sup>3</sup>
Net Dry Density:	1910Kg/m <sup>3</sup>
Total volume of voids:	30%
Volume of largest void:	15%
Thickness of web:	37mm
Thickness of shells:	36mm
Combined thickness of webs & shells:	Face to face - 72mm. Header to header - 109mm
Area of voids on bed face:	35% (one face only)

Thickness (mm)	Mean Strengths (N/mm <sup>2</sup> )	Finishes (S, FF, PG)	Dry Weight (Kg)	Weight Laid (Kg/m <sup>2</sup> )	R-Value (m <sup>2</sup> K/W)	Fire Resistance (hours) - Load Bearing	Number Per Pack	m <sup>2</sup> Laid Per Pack
140	7.3	S	17.2	185	0.17	2	56	5.67

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## Solid, Dense (Group I)

Face Size: 440 x 215mm  
 Gross Dry Density: 1950Kg/m<sup>3</sup>

Thickness (mm)	Mean Strengths (N/mm <sup>2</sup> )	Finishes (S, FF, PG)	Dry Weight (Kg)	Weight Laid (Kg/m <sup>2</sup> )	R-Value (m <sup>2</sup> K/W)	Fire Resistance (hours) - Load Bearing	Number Per Pack	m <sup>2</sup> Laid Per Pack
100	7.3	S, PG	18.1	195 (390)	0.09	2	72	7.29 (3.56)

## Solid, Lightweith (Group I)

Face Size: 440 x 215mm  
 Gross Dry Density: 1410Kg/m<sup>3</sup>

Thickness (mm)	Mean Strengths (N/mm <sup>2</sup> )	Finishes (S, FF, PG)	Dry Weight (Kg)	Weight Laid (Kg/m <sup>2</sup> )	R-Value (m <sup>2</sup> K/W)	Fire Resistance (hours) - Load Bearing	Number Per Pack	m <sup>2</sup> Laid Per Pack
100	7.3	S, PG	13.1	145 (285)	0.23	2	72	7.29 (3.56)
140	7.3	S, PG	19.3	200 (295)	0.33	3	48	4.86 (3.24)

All weights are approximate.

Fire Resistance Figures are national (from BS5628-3 1985) and assume a load bearing, single leaf and unplastered wall.

The m<sup>2</sup> laid per pack figures are based on a block coordinating size of 450x225mm. Bracketed figure for Solids is for product laid "flat", coordinating size of 450x(thickness+10)mm used for calculations.

The laid weight assumes 3% moisture content and a mortar density of 10.5kg/m<sup>3</sup>. Bracketed figure for Solids is for product laid "flat".

## Technical

Solid units are manufactured to BS EN 771 part3

Hollow & Cellular units are manufactured to BS EN 771 part3 except for dimensional tolerances

Tolerance Category: Solid units - D1. Hollow & Cellular – not categorized.

Category: II

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Thermal properties: refer to CIBSE Guide A for Group 1 (solid) units. Group 2 (hollow) can be calculated to BS EN ISO 6946.

Durability: refer to Table 2 BS5628-3

Water Absorption (BS EN 772-11): Not applicable. Units are not intended to be exposed to climatic conditions.

Reaction to Fire: Euroclass A1

Shear Bond Strengths (tabulated): 0.15N/mm<sup>2</sup>

## **Safe Handling**

CDM Regulations: Please refer to HSE Information Sheet, Construction Sheet No. 37, Handling Building Blocks.

Refer to the tables, above, for products that weigh less than 20kg.

## **Disclaimer**

All information is supplied in good faith and believed to be correct at time of publication. Specifications may change without prior notice due to an ongoing product development program.