

HEMELITE STANDARD







Highly versatile, lightweight aggregate blocks

HEMELITE is a range of lightweight aggregate blocks available in a variety of formats and suited to a number of loadbearing applications. HEMELITE lightweight aggregate blocks are suitable for use in walls above and below ground and in block and beam floors. They have a proven high level of technical performance.

LOW UNIT WEIGHT

Easy to handle, high strength to weight ratio, lower overall build weight.

THERMAL PERFORMANCE

Good U-values and thermal bridging values can be obtained when using Hemelite in cavity walls.

RANGE OF STRENGTHS

A range of options available for a wide range of specifications.

EASY TO DECORATE

Ideal background for drylining, plaster, rendering and fixings.

SOUND INSULATION

Hemelite can be used in lightweight aggregate Robust Detail separating walls and will easily meet the Building Regulations.

Approved Document E requires that certain internal walls in dwellings meet a performance standard of $40R_w$ dB. Sound reduction values for single leaf walls are given in the following tables.

FIRE

All Hemelite products conform to a fire rating of Class A1 to BS EN 13501. Typical fire resistance values are shown below and based on the UK National Annex to Eurocode 6 (BS EN 1996-1-2).

TECHNICAL PROPERTIES

PRODUCT	COMPRESSIVE STRENGTH N/mm ^{2 (1)}	BLOCK THICKNESS mm	FACE SIZES, Mm LENGTH λ(W/mK) X HEIGHT INT EXT		DRY DENSITY kg/m³	SULPHATE SOIL CONDITIONS	MOISTURE MOVEMENT mm/m	COURSING BRICK THICKNESS AVAILABLE mm	BLOCK WIDTH POTENTIALLY >20kg**	
HEMELITE	3.6	100, 140	440 x 215	0.57	0.62	1450	DS1	<0.80	100	140
STANDARD SOLID	7.3	100, 140	440 x 215	0.57	0.62	1450	DS1, DS2, DS3	<0.80	100, 140	140
	10.4	100, 140	440 x 215	0.57	0.62	1450	DS1, DS2, DS3	<0.80	100, 140	140

^{**} Blocks can potentially be greater than 20kg if they become saturated.

SIZES AND WEIGHTS

HEMELITE STANDARD (3.6 N/mm²)	SOLID				
Block Width (mm)	100	140			
Unit weight (kg)*	14.1	19.8			
Laid weight (kg/m²)	152	212			
HEMELITE STANDARD (7.3 N/mm²)	so	LID			
Block Width (mm)	100	140			
Unit weight (kg)*	14.1	19.8			
Laid weight (kg/m²)	152	212			
HEMELITE STANDARD (10.4 N/mm²)	so	SOLID			
Block Width (mm)	100	140			
Unit weight (kg)*	14.1	19.8			
Laid weight (kg/m²)	152	212			

^{*} Weights based on 3% moisture content.

SOUND AND FIRE PROPERTIES

PRODUCT	BLOCK THICKNESS	SOUND INSULATION (SIN	NGLE LEAF WALLS), R _w (dB)	FIRE RESISTANCE (HOURS) BS EN 1996:1-2			
		LIGHTWEIGHT PLASTER	DRY LINING	SINGLE LEAF WALL, NO FINISH			
		(BOTH FACES)	(BOTH FACES)	NON-LOADBEARING	LOADBEARING		
HEMELITE	100	46	46	4	2		
STANDARD SOLID	140	49	49	4	3		

APPLICATIONS

DDODLIGT	COMPRESSIVE STRENGTH	CAVITY INNER	CAVITY	SEPARATING	DADTITIONS	BELOW	DIRECT RENDER (2 coat traditional)		BEAM &
PRODUCT	N/mm ²⁽¹⁾	LEAF	EXTERNAL LEAF	(PARTY) WALL	PARTITIONS	DPC LEVEL	PARTIAL FILL CAVITY	FULL FILL CAVITY	- BLOCK FLOORS
HEMELITE STANDARD SOLID	3.6	~	~	~	~	X ⁽²⁾	~	~	×
	7.3	~	~	~	~	~	~	~	~
	10.4	~	~	~	~	~	~	~	~

⁽¹⁾ Manufactured to Category 2 manufacturing control. (2) Can be used below DPC in inner leaf of cavity wall.

To find out more about our range of BLOCKS and the best solution for your project call <i>0345 606 2468</i> Check out our U-value Calculator www.tarmac.com/u-value-calculator	
TARMAC.COM	
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