

# ***TOPLITE***

## *STANDARD*

Extremely versatile lightweight blocks



# TOPLITE

## STANDARD

Extremely versatile lightweight blocks

*TOPLITE is a range of versatile aircrete blocks providing solutions below ground in foundation walls, in suspended beam and block floors and all types of internal and external walling situations. Its use provides many benefits for specifiers and contractors, making it the natural choice where blockwork is specified. TOPLITE blocks combine low unit weight with high thermal insulation and acoustic performance, in strengths from 2.9 to 7.3N/mm<sup>2</sup>.*

### LOW UNIT WEIGHT

All the following Toplite blocks meet the health and safety standards for single-person repetitive handling.

### FAST BUILDING BLOCKS

Toplite blocks are light and easy to handle, decreasing build times.

### EASY TO WORK

Cutting is straight forward and quick to achieve using standard tools.

### RANGE OF STRENGTHS

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

### EXCELLENT THERMAL PERFORMANCE

Toplite GTi offers a high level of thermal insulation contributing to low U-values.

### FIRE

All Toplite 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).

### SOUND INSULATION

The Building Regulations Approved Document E requires certain internal walls and floors in dwellings to meet a performance standard of 40R<sub>w</sub> dB. Sound reduction values for single leaf walls are given below.

## TECHNICAL PROPERTIES

PRODUCT	COMPRESSIVE STRENGTH N/mm <sup>2</sup> (1)	BLOCK THICKNESS mm	FACE SIZES, mm LENGTH X HEIGHT	THERMAL CONDUCTIVITY λ (W/mK)	DRY DENSITY kg/m <sup>3</sup>	SULPHATE SOIL CONDITIONS	MOISTURE MOVEMENT	COURSING BRICK THICKNESS AVAILABLE mm	BLOCK WIDTH POTENTIALLY >20kg
TOPLITE GTI	2.9	100, 125, 140, 150, 200, 215	440 x 215	0.11	460	DS1 <sup>(1)</sup>	<0.70	100, 125	-
TOPLITE STANDARD	3.6	100, 125, 140, 150, 215	440 x 215	0.16	630	DS1, DS2, DS3	<0.70	100, 140, 150	-
TOPLITE 7	7.3	100, 140, 150, 215	440 x 215	0.19	730	DS1, DS2, DS3	<0.70	100, 140	-

Manufactured to Category 1 manufacturing control. \*\*Check with Tarmac blocks sales team for stocked and 'made to order' sizes

(1) Inner leaf cavity walls or internal walls.

Suitable for use  
in walls above and  
below ground

## SIZES AND WEIGHTS

TOPLITE GTI (2.9N/mm <sup>2</sup> )						
Block Width (mm)	100	125	140*	150*	200*	215
Unit weight (kg)	4.5	5.6	6.7	7.0	9.0	9.7
Laid weight (kg/m <sup>2</sup> )	56	71	79	85	113	121
TOPLITE STANDARD (3.6N/mm <sup>2</sup> )						
Block Width (mm)	100	125*	140	150	-	215
Unit weight (kg)	6.1	7.7	8.6	9.2	-	13.2
Laid weight (kg/m <sup>2</sup> )	72	91	101	109	-	156
TOPLITE 7 (7.3N/mm <sup>2</sup> )						
Block Width (mm)	100	-	140	150*	-	215
Unit weight (kg)	7.1	-	10.0	10.7	-	15.3
Laid weight (kg/m <sup>2</sup> )	83	-	115	123	-	176

\* Denotes a made to order product. Please note availability may be dependent on order quantity and location.

Unit and laid weights, which are given for design purposes, are approximate and calculated based on the specified dry density with a moisture content of 3% by weight added to provide equilibrium weights.

## SOUND AND FIRE PROPERTIES

PRODUCT	BLOCK THICKNESS mm	SOUND INSULATION (SINGLE LEAF WALLS), R <sub>w</sub> (dB)			FIRE RESISTANCE (HOURS) BS EN 1996:1-2	
		NO FINISH	LIGHTWEIGHT PLASTER (BOTH FACES)	DRY LINING (BOTH FACES)	SINGLE LEAF WALL, NO FINISH	
					NON-LOADBEARING	LOADBEARING
TOPLITE GTI	100	38	41	40	4	1
	140	41	43	43	4	2
	215	46	48	48	4	4
TOPLITE STANDARD	100	40	41	42	4	2
	140	44	46	46	4	3
	215	49	50	50	4	4
TOPLITE 7	100	41	44	43	4	2
	140	45	47	47	4	3
	215	50	51	51	4	4

## APPLICATIONS

PRODUCT	EXTERNAL SOLID WALL	CAVITY INNER LEAF	CAVITY EXTERNAL LEAF	SEPARATING (PARTY) WALL	PARTITIONS	BELOW DPC LEVEL	DIRECT RENDER (2 coat traditional)		BEAMS & BLOCK FLOORS
							PARTY FILL CAVITY	FULL FILL CAVITY	
TOPLITE GTI	✓	✓	✓	✗	✓	✓ <sup>(1) (3)</sup>	✗ use render carrier only	✗ use render carrier only	✗
TOPLITE STANDARD	✓	✓	✓	✓	✓	✓ <sup>(1)</sup>	✓	✗ use render carrier only	✓ <sup>(2)</sup>
TOPLITE 7	✓	✓	✓	✓	✓	✓ <sup>(1)</sup>	✓	✗ use render carrier only	✓ <sup>(2)</sup>

(1) Subject to the sulphate conditions (2) Spanning the 215mm block dimension only (3) Inner leaf of cavity walls and internal walls