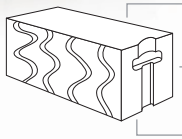
TECHNICAL DATA SHEET

TRENCHBLOCK 3.6 (TONGUE & GROOVE)

THERMALITE
a Forterra brand





VIEW PRODUCT ONLINE

LIGHTWEIGHT THERMAL PERFORMANCE BY DESIGN

Thermalite Trenchblock 3.6 supports efficient foundation construction with a tongue & groove profile that reduces mortar use and supports alignment during installation. Integrated handles assist on-site handling and placement.

Suitable for the majority of foundation applications, these trenchblocks provide structural performance while supporting installation efficiency on site. Classified DS1-4 for design sulfate class, they can be used across a wide range of ground conditions.

Manufactured to BS EN 771-4, and compliant supporting Approved Documents Part A, B, and L, **Thermalite** supports efficient project delivery and compliant wall construction.

KEY FACTS

(based on 440x215x300mm block)

Compressive Strength:	3.6 N/mm²
Weight:	22.7kg/block
Soil or Groundwater DS Classification:	DS1-4
Reaction to fire: BS EN 13501	A1

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PRODUCT APPLICATION

BLOCK WIDTH	CAVITY WALLS EXTERNAL LEAF BELOW DPC	CAVITY WALLS EXTERNAL LEAF ABOVE DPC	CAVITY WALLS INNER LEAF BELOW DPC	CAVITY WALLS INNER LEAF ABOVE DPC	SOLID EXTERNAL WALLS BELOW DPC	SOLID EXTERNAL WALLS ABOVE DPC	SEPARATING WALLS	INTERNAL PARTITIONS	BEAM & BLOCK FLOORING INFILL
255mm	✓ Φϑ	✗	✓ Φϑ	✗	✓ Φϑ	✗	✗	✗	✗ ‼
⚠ 300mm	✓ Φϑ	✗	✓ Φϑ	✗	✓ Φϑ	✗	✗	✗	✗ ‼
⚠ 355mm	✓ Φϑ	✗	✓ Φϑ	✗	✓ Φϑ	✗	✗	✗	✗ ‼

SPECIAL ORDER Lead times may be extended and subject to minimum order quantity

⚠ **CAUTION!** Heavy item >20kg





NOTES:

Φ Product suitability in this application is subject to the block achieving the sites soil / groundwater DS classification requirements.

ϑ Blocks in the external leaf from DPC level to 150mm below ground level must not be left exposed, suitable products such as clay bricks of Class B Engineering properties or “F2” durability in accordance with BS EN 771-1 should be specified in this zone, alternatively blocks may be covered with a suitable protective finish.

‼ For beam and block infill applications, only the Thermalite Floor block can be used.

Products should be designed and constructed in accordance with all relevant Legislation, Building Regulations, European & British Standards, Acts, Codes of Practice and manufacturers recommendations.

Please refer to Building Regulations, Approved Document A and the Projects Structural Engineer for minimum wall thickness, block compressive strength and characteristic strength requirements - specification varies subject to numerous factors which include loading, block orientation, restraint, wall height and length.

Block weights based on gross density @ 23% moisture content, moisture equilibrium approximately 3% (protected) and 5% (exposed).

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PRODUCT TECHNICAL DATA

SPECIAL ORDER
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Width (mm):	255 ⚠	300 ⚠	355 ⚠
Face Sizes – L x H (mm):	440 x 215	440 x 215	440 x 215
Dimensional Tolerance Classification:	GPLM	GPLM	GPLM
Dimensional Tolerance – Length:	(+3mm, -5mm)	(+3mm -5mm)	(+3mm, -5mm)
Dimensional Tolerance – Height:	(+3mm, -5mm)	(+3mm -5mm)	(+3mm, -5mm)
Dimensional Tolerance – Width:	(+3mm, -3mm)	(+3mm -3mm)	(+3mm -3mm)
Unit Weight, Gross Density @ 23% Moisture (kg):	17.8	20.9	24.8
Configuration:	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)
Category:	II	II	II
Mean Compressive Strength (N/mm^2): The declared properties are based on the block being laid in their intended orientation i.e. face size (L x H) and thickness stated on this technical data sheet. Please contact Forterra for further information before using the block in a different orientation.	3.6	3.6	3.6
Gross Dry Density (kg/m^3):	600	600	600
Thermal Conductivity - λ10, dry unit, S2 (W/m.K)	0.130	0.130	0.130
Design Thermal Conductivity - Protected (3%) (W/m.K):	NPD	NPD	NPD
Design Thermal Conductivity - Exposed (5%) (W/m.K):	NPD	NPD	NPD
Design Thermal Conductivity - (15%) (W/m.K):	0.24	0.24	0.24
Thermal Resistance - Protected (3%) ($m^2.K/W$):	NPD	NPD	NPD
Thermal Resistance - Exposed (5%) ($m^2.K/W$):	NPD	NPD	NPD
Sound Reduction – Unfinished (RW dB): Sound Reduction - Calculated based on unfinished. On-site testing values may be lower.	NPD	NPD	NPD
Fire Resistance (Hours) (NA to BS EN 1996-1-2) – Non-load Bearing Single Leaf walls (Criteria EI):	NPD	NPD	NPD
Fire Resistance (Hours) (NA to BS EN 1996-1-2) – Load Bearing Single Leaf walls (Criteria REI) ≤ 0.7:	NPD	NPD	NPD
Load Bearing Single Leaf walls (Criteria REI) ≤ 0.42:	NPD	NPD	NPD
Reaction to Fire (BS EN 13501):	A1	A1	A1
Water Vapor Permeability:	5/10	5/10	5/10
Dimensional Stability - Moisture Movement (mm/m):	nominal 0.5	nominal 0.5	nominal 0.5
Vapour Resistivity (MN.s/g.m):	50	50	50
Soil or Groundwater DS Classification:	DS1-4	DS1-4	DS1-4
Shear Bond Strength (N/mm^2):	0.15	0.15	0.15
Third Party Certification:	Yes (BBA Certificate 00/3720 - Product Sheet 3)		
Movement Joint Detail	Vertical movement joints at no more than 6m centres and not more than half that spacing from a corner		

Blocks are manufactured to BS EN 771-4. NPD denotes 'No Performance Declaration'; please contact Forterra for further information. ⚠ **CAUTION!** Heavy item >20kg

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Version 4 (Last published: 21/08/2026)
Valid at the time of publication. Please check our website (www.forterra.co.uk) for the latest product information and documentation. For previous versions please contact us.

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