

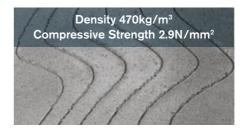
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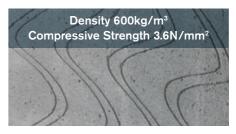
PRODUCT IDENTIFICATION

All Thermalite blocks are manufactured with scratch marks to help you quickly and easily identify the technical performance of each block. This is unique to Thermalite and is particularly useful when the products are in build. The products and corresponding scratch marks are shown below.



6 SCRATCH MARKS

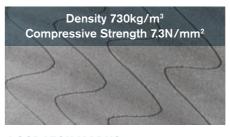
Turbo



8 SCRATCH MARKS

Shield

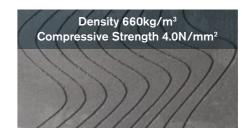
Trenchblock 3.6 Tongue & Groove



4 SCRATCH MARKS

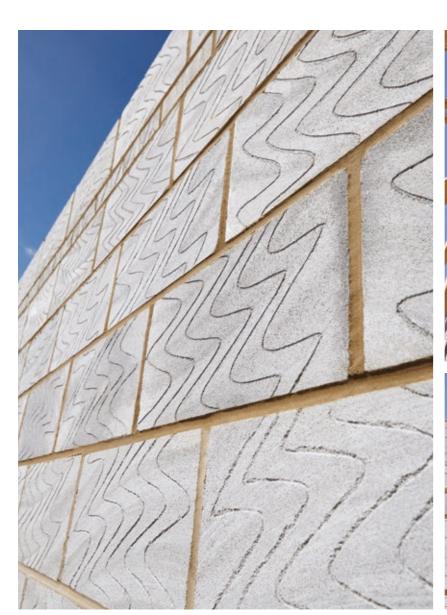
Hi-Strength 7

Hi-Strength 7 Trenchblock Tongue & Groove



9 SCRATCH MARKS

Floorblock Party Wall







THERMALITE IS AN EXCEPTIONALLY SUSTAINABLE BUILDING MATERIAL

It contributes to the construction of environmentally efficient buildings from the ground up. Whether you're building internal or external walls, foundations or block and beam floors, Thermalite's excellent thermal insulation properties make U-value targets easier to achieve and can help reduce CO_2 emissions during a building's life.

It's the closed micro-cellular structure, featuring tiny pockets of trapped air that give Thermalite its distinctive features: high thermal and sound insulation, lightness for handling, high compressive strength, and fire resistance of the products in the Thermalite range.



MANUFACTURE

Recycled content

Manufactured from up to 80% pulverised fuel ash, a waste product from UK power stations

Responsible sourcing

BES 6001 Responsible Sourcing of Materials

Minimal waste

Process waste is crushed or recycled into the next mix or used in other concrete products

Quality management

ISO 9001 Quality
Management System
ISO 14001 Environmental
Management System



DESIGN

Part L compliance

Cost-effective solutions for current and future Part L requirements

Low air permeability

Contributes to low airtightness building fabrics

Thermal bridging

Robust and flexible details which help reduce heat loss through thermal bridges

U-values

Low thermal conductivities contribute to low wall U-values



END OF LIFE

Recyclable

Can be fully recycled to create new construction materials





VISIT

forterra.co.uk

For more details on our sustainability updates, credentials and recent achievements



BUILD

High thermal insulation

Contributes to reducing heat loss through the envelope

High sound insulation

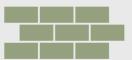
Insulating against noise from adjoining buildings and external sources

Durable

Exceeds build life expectancy

Thermal mass

Stores heat which helps reduce extremes of internal temperature within a building



CONSTRUCTION

Health and safety

Meets CDM regulations

Thermalite Trench Block
Tongue & Groove is the
first UK-manufactured block
with handholds

Reduced waste on site

Easy to cut, saw, chase and drill using hand tools

A1 non-combustible material

Reducing the risk of fire onsite during the construction

CO₂ and Transport

Low density contributes to reduced transport CO₂ per tonne



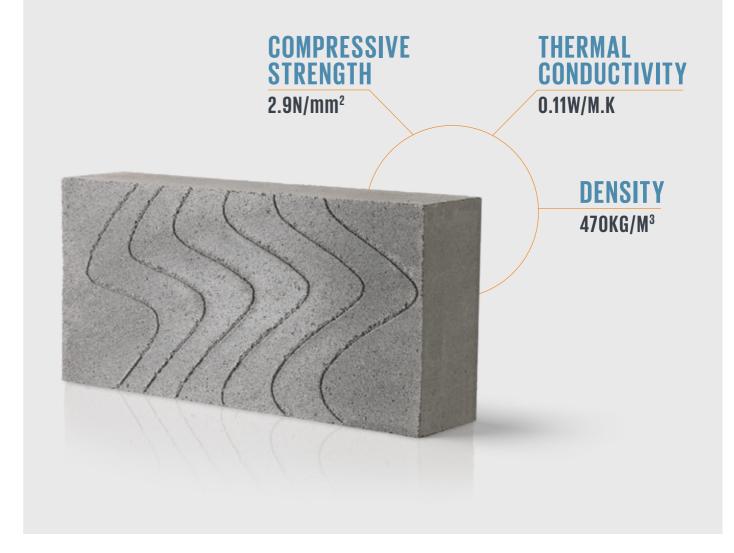




TURBO

EXTERNAL WALLS • FOUNDATIONS • PARTITIONS

Turbo block is the most thermally efficient block in the Thermalite range. It is an ideal choice for two storey external walling applications requiring low U-values.



Specifications

Face dimensions 440 x 215 (mm)	Thickness (mm) *	100	140	150 [†]	190 [†]	200 [†]	215
	Weight (kg) *	5.5	7.7	8.2	10.4	10.9	11.8

[†] Manufactured to special order only.

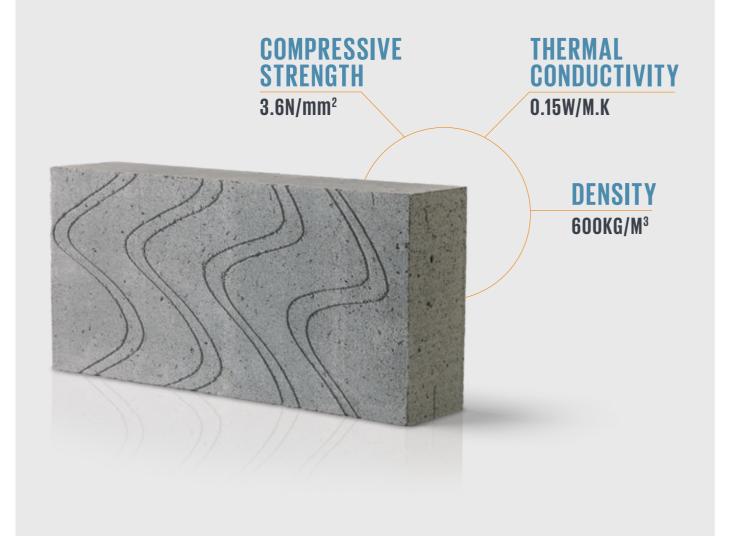
FOR TECHNICAL INFORMATION VISIT: FORTERRA.CO.UK/THERMALITE

^{*} Block weights based on 23% moisture content (typical received), moisture equilibrium approximately 3% (protected) and 5% (exposed).

SHIELD

EXTERNAL WALLS • FOUNDATIONS • PARTITIONS • SEPARATING WALLS

Shield block is very versatile and can be used in a variety of applications including external walls, foundations, partitions and separating walls.



Specifications

Face dimensions	Thickness (mm) *	50	75	100	140	150	200†	215 [†]
440 x 215 (mm)	Weight (kg) *	3.5	5.2	7.0	9.8	10.5	14.0	15.0

[†] Manufactured to special order only.

FOR FURTHER ADVICE CONTACT OUR TECHNICAL TEAM: 0330 123 1018

HI-STRENGTH 7

EXTERNAL WALLS • FOUNDATIONS • PARTITIONS • SEPARATING WALLS

Hi-Strength 7 block has been specifically designed for applications such as flats of three storeys and above, offices, supermarkets and retail parks, where loading conditions require a 7.3N/mm² building block.



Specifications

Face dimensions	Thickness (mm) *	100	140	150 [†]	190†	200†	215
440 x 215 (mm)	Weight (kg) *	8.5	11.9	12.7	16.1	17.0	18.3

[†] Manufactured to special order only.

FOR TECHNICAL INFORMATION VISIT: FORTERRA.CO.UK/THERMALITE

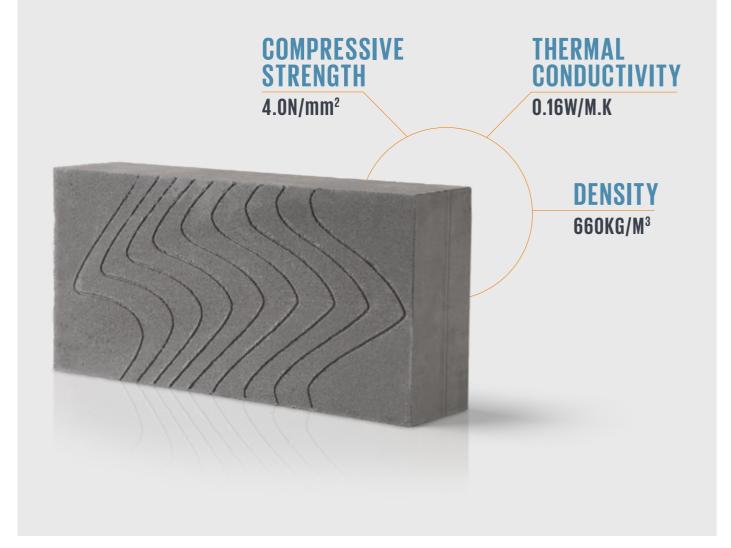
^{*} Block weights based on 23% moisture content (typical received), moisture equilibrium approximately 3% (protected) and 5% (exposed).

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PARTY WALL

SEPARATING WALLS • EXTERNAL WALLS • PARTITIONS • FOUNDATIONS

Party Wall blocks give high levels of sound reduction when constructing separating (cavity) walls between buildings.



Specifications

Face dimensions	Thickness (mm) *	100	215
440 x 215 (mm)	Weight (kg) *	7.7	16.5

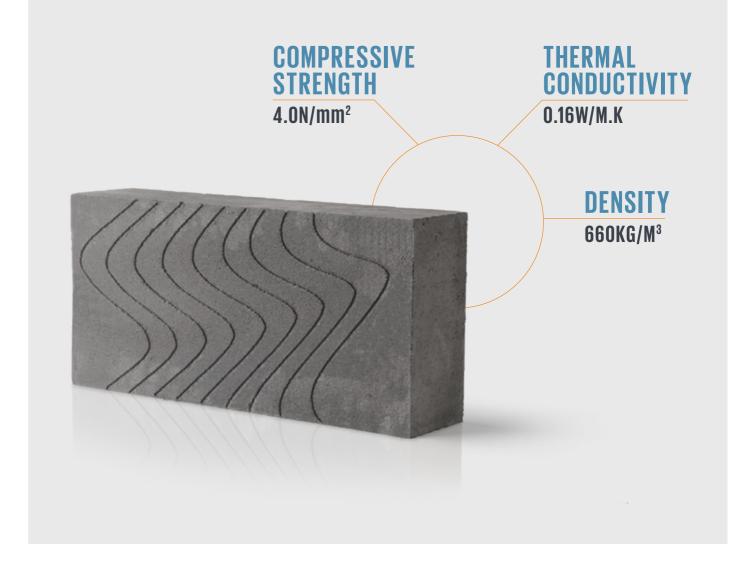
[†] Manufactured to special order only.

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FLOORBLOCK

BEAM & BLOCK FLOORS

Floorblock is an efficient method of creating insulated floors. It is light in weight and designed for use with all proprietary T-beams where it can help to improve the thermal performance of the floor.



Specifications

Face dimensions	Thickness (mm) *	100
440 x 215 (mm)	Weight (kg) *	7.7

[†] Manufactured to special order only.

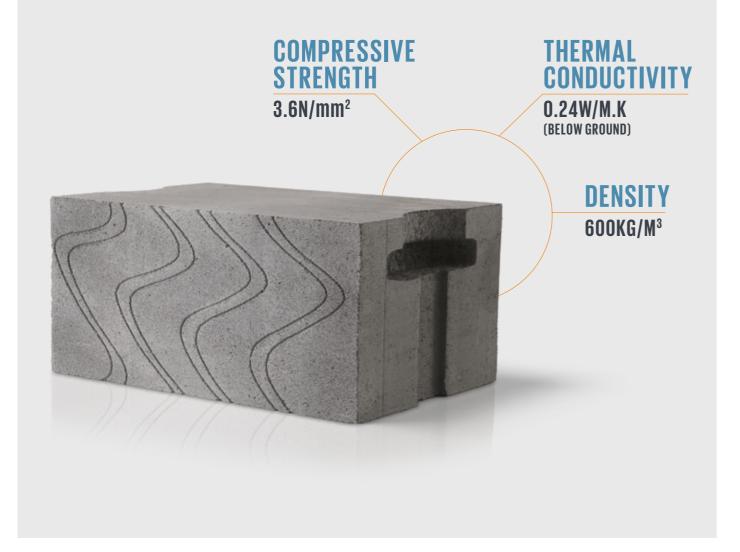
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TRENCHBLOCK 3.6 TONGUE & GROOVE

FOUNDATIONS

Trenchblock 3.6 T&G is a revolutionary Thermalite block for constructing solid foundation walls. Offering handholds for easy lifting, along with tongue and groove joints which avoid the need for mortar in perp ends.



Specifications

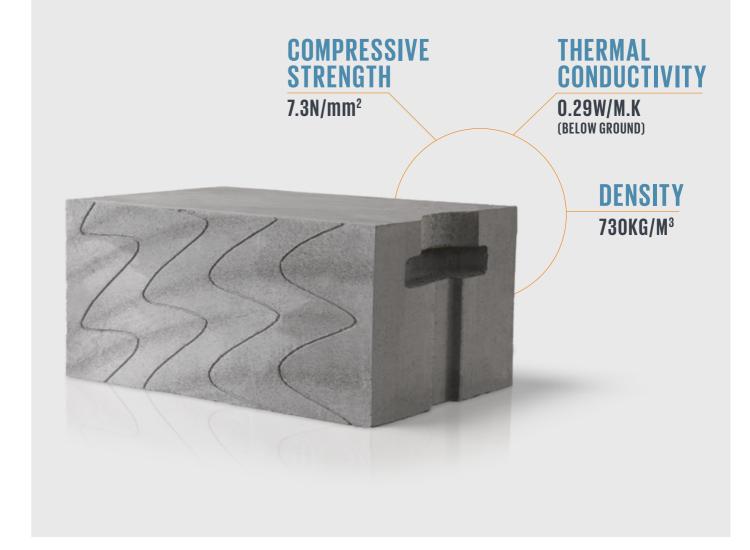
Face dimensions	Face Dimensions (mm) *		440 x 215			440 x 140 [†] ∆			
440 x 215 (mm)	Thickness (mm) *	255†	300	355	255	300	355		
440 x 140 (mm) ^{†∆}	Weight (kg) *	17.8	20.9	24.8	11.6	13.6	16.1		

[†] Manufactured to special order only.

HI-STRENGTH 7 TRENCHBLOCK TONGUE & GROOVE

FOUNDATIONS

Hi-Strength 7 Trenchblock T&G offers all the benefits of the 3.6N/mm² block, but with a compressive strength of 7.3N/mm². It can be used in foundation applications for buildings up to three storeys high.



Specifications

Face dimensions	Face Dimensions (mm) *	440 x 215				440 x 140 ⁺ ∆			
440 x 215 (mm) 440 x 140 (mm) ^{†∆}	Thickness (mm) *	255	300	355	255	300	355		
440 X 140 (IIIII)	Weight (kg) *	21.7	25.5	30.2	14.1	16.6	19.6		

[†] Manufactured to special order only.

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^{*} Block weights based on 23% moisture content (typical received), moisture equilibrium approximately 3% (protected) and 5% (exposed). Δ All 140mm high trenchblocks are supplied without hand holds and tongue & grooves - they have flat ends.

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COURSING BRICK 2.9

BONDING • COURSING • INFILL • MAKING UP

Coursing brick units are Thermalite blocks, produced in standard brick sizes, for use in bonding and infill to ensure a uniform thermal performance throughout the wall.



Specifications

FACE DIMENSIONS 215 x 65 (mm)	Thickness (mm) *	100	115 [†]	125†	140	150†
	Weight (kg) *	1.0	1.2	1.3	1.4	1.6

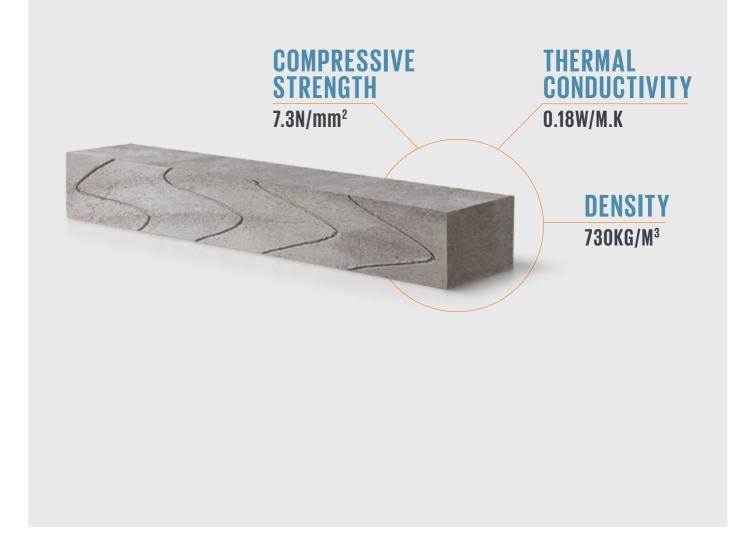
[†] Manufactured to special order only.

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HI-STRENGTH 7 COURSING BLOCK

BONDING • COURSING • INFILL • MAKING UP

Coursing block units are Hi-Strength 7 Thermalite blocks produced in standard brick height and block length. Designed for use in bonding and infill to ensure a uniform thermal performance throughout the wall.



Specifications

Face dimensions	Thickness (mm) *	100	140
440 x 65 (mm)	Weight (kg) *	2.6	3.6

[†] Manufactured to special order only.

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^{*} Block weights based on 23% moisture content (typical received), moisture equilibrium approximately 3% (protected) and 5% (exposed).

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CASE STUDY ROSE MEADOWS







Client: Bellway

Project: a development of 227 two, three, four and five-bedroom homes and apartments in Cheshire

Thermalite products used

Foundations: Thermalite Trenchblock

Tongue & Groove

Ground floor walls: Thermalite Shield **Upper floor walls:** Thermalite Turbo

Andrew Millard of Bellway explains why Bellway selected products from the Thermalite range of aircrete blocks: "We chose Trenchblock Tongue & Groove for the foundations over traditional methods for a couple of reasons. Firstly, it's very effective in helping us to achieve the U-values required and, secondly, it is quick and easy to install, which helps to reduce build time. The decision to use Thermalite Shield for the ground floor walls and Turbo for the upper floor walls was based on the respective compressive strength of the two products."



THERMAL PERFORMANCE SOUND INSULATION U-VALUE CALCULATIONS VISIT FORTERRA.CO.UK



Forterra's technical team has a wealth of experience and expertise to help you make your project a success.

For general construction advice or information about a product's performance, and industry best practice on how to use it, the team is on hand to answer your questions at every stage of your build.

If your project has hit a wall, the team's problem-solving skills are second to none. By involving them from a project's earliest stage, they are able to use their true value engineering know-how to help you make your architectural design concept reality while keeping budgets under control.

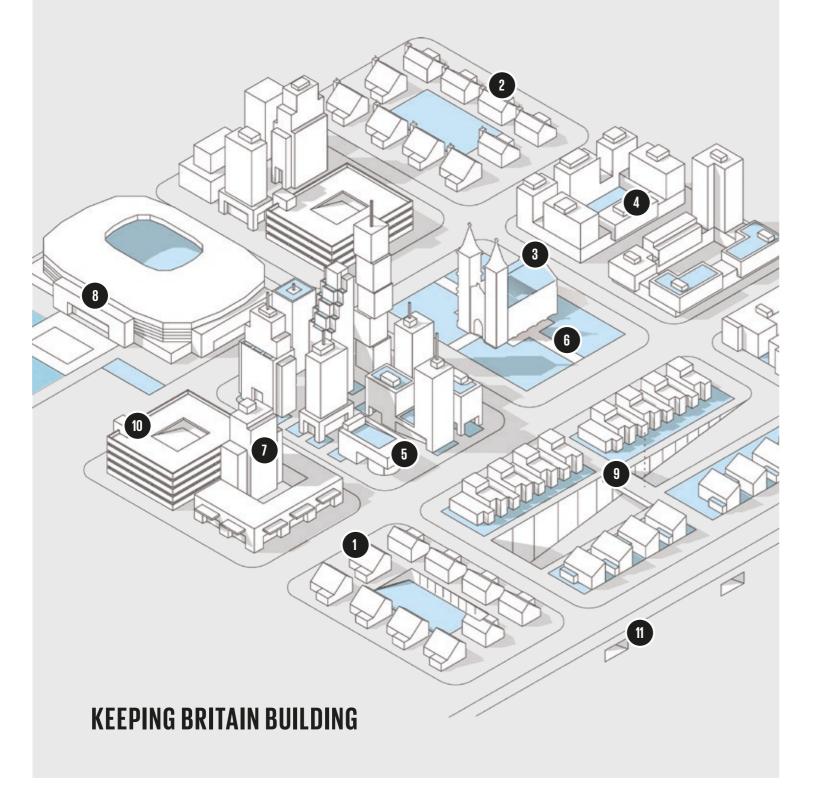
The team can arrange official U-value assessments, supply technical specifications and product declarations for all the products in the Thermalite range.

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THE COMPLETE **FORTERRA RANGE**

Our extensive product range covers all your construction requirements, from initial ground work through to finished build.





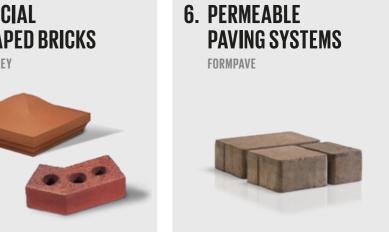




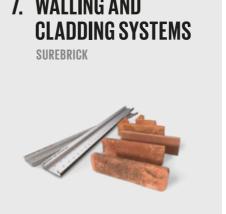


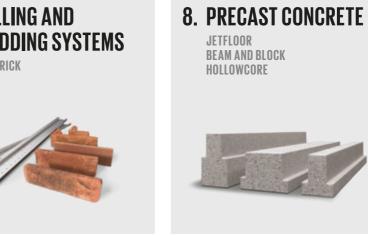




















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Forterra is a leading manufacturer of a diverse range of clay and concrete building products, used extensively within the construction sector, and employs over 1,800 people across 17 manufacturing facilities in the UK.

It is the second largest brick and aircrete block manufacturer in the country, and the only producer of the iconic London Brick. Other trusted brands from Forterra include Thermalite, Conbloc, Ecostock, Butterley, Cradley, Red Bank, Bison Precast and Formpave.

forterra.co.uk

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