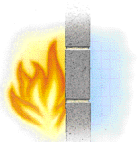
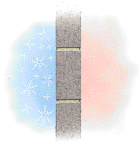


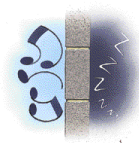
Thermal Insulation



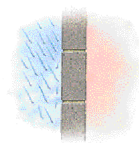
Fire Resistance



Frost Resistance



Sound Insulation



Moisture Penetration

ENVIRONMENT

The use of Thermalite blocks can significantly reduce energy consumption and environmental damage, compared to other building materials.

- Thermalite is manufactured using over 50% pulverised fuel ash (p.f.a.), a waste product from coal burning power stations, which is both stable and environmentally friendly.
- Waste produced during the manufacturing process is also recycled, which can increase the total level of recycled material up to 80%.
- The micro-cellular structure of Thermalite offers remarkably high heat insulation and, consequently, lower energy consumption for heating of buildings.
- The cellular structure also forms a very lightweight product, which even contributes to reduced energy consumption during haulage.

Thermalite is proud to be the first aircrete block manufacturer to be awarded the coveted environmental manufacturing standard, BS EN ISO 14001 : 1996.

QUALITY

All Thermalite Smooth Face blocks are certified by the British Board of Agrément. Additionally, all manufacturing locations hold a Kitemark licence.



BS 6073 : Part 1
BS 6073 : Part 2



00/3720

TECHNICAL ADVISORY SERVICE

Thermalite provide a FREE Technical Advisory Service, staffed by a highly qualified team with specialist knowledge on the use of Thermalite products from the initial design stage through to completion. The service includes:

- Structural Appraisals
- Sound Assessment
- Thermal Calculations
- Movement Joint Locations
- Energy Ratings
- Render/Plaster Specifications

NOTE:

It is recommended that a Smooth Face sample panel is erected for comparison purposes before construction commences and that selection is undertaken during construction. It may also be necessary to fill small blow holes before decoration.

Due to thickness variations within manufacturing tolerances, it may be difficult to build solid partition walls which have a smooth and even surface on both sides.

Customer Services:

Tel: 08705 626500

Fax: 08705 626550

Email: thermalitesales@mbm-marley.co.uk

www.thermalite.co.uk

PRODUCT DATA

DIMENSIONS

Face dimensions (mm)
440 x 215

Block thickness (mm)

100	140	150
190	200	215

Tolerances
in accordance with
BS 6073 : Part 1 : 1981

Length and height +3mm -5mm
Thickness ±4mm max ±2mm average

WEIGHTS

Block weights at equilibrium density (kg)

Block thicknesses & weights

100	140	150	mm
7.5	10.5	11.2	kg

190	200	215	mm
14.2	14.9	16.1	kg

Weights of erected walls (including mortar) at equilibrium density (kg/m²)

Wall thicknesses & weights

100	140	150	mm
84	117	125	kg/m ²
190	200	215	mm
159	167	180	kg/m ²

Add 11kg/m² for each side of 2-coat lightweight plaster (24kg/m² for dense plaster)

SPECIFICATION

Nominal dry density 760kg/m³

Average saturated compressive strength not less than 7.0N/mm²

Thermal Conductivity () 0.19W/mK

Drying shrinkage complies with BS 6073 : Part 1 : 1981

THERMALITE



THERMALITE

Hi-Strength 7

Aircrete Building Blocks

hi-strength 7...

...for new heights of and

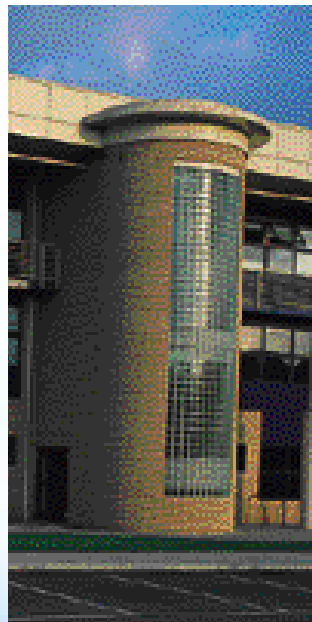
THERMALITE

If you think the superior quality of Thermalite blocks is only suited to domestic housing, Hi-Strength 7 will make you think again.

With a compressive strength of 7N/mm^2 , it is ideal for use in all types of projects, from high rise flats and office developments to supermarkets and retail parks.



Atherley School, Hampshire



HIGH PERFORMANCE

As you would expect, Hi-Strength 7 delivers the benefits inherent in all Thermalite blocks. Resistance to moisture and frost is outstanding and the energy conscious architect or designer will appreciate the benefits of its superior thermal insulation properties.

A particular strength is its fire resistance. Independent tests have verified that Thermalite provides excellent protection when encasing steel, is non-combustible and has a Class O fire rating.





Hendon College

performance productivity

Bromsgrove Golf Club



Chester Racecourse

HIGH PRODUCTIVITY

Above all, Hi-Strength 7 allows you to reach new heights of productivity. Because it's only half the weight of other blocks of equal compressive strength, you can not only build higher, you can build faster.

In addition, CDM Regulations require specifiers to consider health and safety issues on site. All Hi-Strength 7 blocks weigh less than 20kg, thus avoiding adverse risk assessment.

HIGH VERSATILITY

At Thermalite, we understand the benefits to be gained from a 7N/mm² insulating block.

That's why we have extended the properties of Hi-Strength 7 to other products in the range.

Hi-Strength Trenchblock can be used in foundations where extra strength is required. This not only significantly reduces heat loss through the floor, but can cut the time it takes to build foundations by half.

When you're looking for a block that provides opportunities for more imaginative surface effects, with added strength, the answer is **Hi-Strength Smooth Face** - a fair faced block that looks just as good without a coat of paint as it does with one.

Thermalite blocks of a higher compressive strength can be produced as a special order. Please consult the Technical Advisory Service for further details.

Safeway, Woking

