

H+H Information Sheet

Build with Ease

Page 1 of 2

Thermal Insulation

Due to their thermal mass H+H aircrete has the ability to store and radiate heat back into a building.

This helps a house act as a storage heater, absorbing heat and radiating it back into the building when the temperature drops. This reduces any dips in temperature during the winter and peaks in summer, creating a comfortable environment.

The range of H+H aircrete products, all with excellent thermal properties, means that H+H UK can offer blocks for foundations, cavity walls, solid walls, party walls, flanking walls and beam-and-block floors that satisfy Building Regulations and energy efficiency requirements.

Acoustic Insulation

H+H UK's products can easily achieve the sound insulation requirements of Building Regulations.

The solutions within our Products & Applications Guide are backed by testing both on-site and in laboratory conditions. H+H aircrete products have excellent sound insulation qualities, which allow their continued use throughout the building to achieve the requirements for internal walls and floors (only applicable in England and Wales) and separating walls and floors, including their associated flanking walls (applicable in England, Wales and Scotland).

See TSD 57 for details on how H+H blockwork constructions meet Building Regulations and Robust Details.

Building with Aircrete

H+H aircrete provides simple solutions and our Building with Aircrete Guide has been carefully designed with an emphasis on the practical use and application of H+H aircrete.

Our Building with Aircrete brochure includes detailed guidance on stacking and storage, recommended mortar types and strength, laying blocks, cutting, chasing and fixing to block and applying internal and external finishes.

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Page 2 of 2

Fire Resistance

Aircrete does not burn and can be used to contain or prevent the spread of fire within a building.

As well as being BBA certified, aircrete has up to a 4 hour fire resistance can be achieved with a regular 100mm thick block, or 2 hours if loadbearing. Aircrete has Class O surface spread of flame and is non-combustible to Class A1 (the highest class). With this level of resistance aircrete becomes the perfect choice for any building, but especially those where we live or care for less mobile persons.

Accommodation of Movement

Movement can be due to expansion and contraction (shrinkage) related to the physical characteristics of the materials and the environment and to differential settlement or other movement of parts of the structure. Such movements are termed either reversible or irreversible.

For more information about movement control and the use of movement joints and bed joint reinforcement please review our Designing with aircrete brochure.

Air Tightness

Aircrete's Air Permeability Tests undertaken by Building Services Research and Information Association (BSRIA) have shown that H+H aircrete achieved an air permeability of approximately 0.12m³/hr/m² measured at 50 pascals. The corresponding value is 1.04m³/hr/m² for H+H aircrete using general purpose mortar. The use of thin layer mortar will improve this.

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