

GUIDANCE NOTES

BUILDING WITH QUINN LITE AERATED THERMAL BLOCKS

IMPORTANT : MUST BE RETAINED BY SITE FOREMAN FOR REFERENCE

Quinn Lite Aerated Thermal Blocks offer excellent Thermal Performance, High Compressive Strength and Durability. Due to their structure and lightweight properties they are easy to work with and can be sawn, drilled, chased and cut to shape using ordinary woodworking style tools. This saves time and minimises waste.

SITE APPLICATION

BLOCK LAYING:

Mortar:	Below DPC 4:1 sand/cement + plasticiser Above DPC 6:1 sand/cement + mortar mix (To manufacturer's instructions)
Ready To Use Mortar	6:1 plus additive plus retarder or Class III Ready Mixed Mortar.

Conformations for mortar **Standard**-BS.EN 1996-3 and BS 8000-3 Part 3, **Thin Joint** - BS.EN 998-3 Part 3

NOTE : DO NOT USE STRONGER MORTAR MIXES

WALL TIES

BLOCK LAYING:

Standard Blockwork:	Flexible wall ties butterfly or double triangle - EN 845-1. A Staifix Starter tie should be used where a dense block partition wall meets with Quinn-Lite blockwork.
Thin Joint:	Spiral or Helical ties are driven into the thermal blockwork since the bed joint levels in the wall do not coincide, therefore helping course the outer leaf. The recommended Thin Joint Cavity Tie is Ref: HJJ100 from Clan Products Ltd or Staifix-Thor TJ2 with Staifix TJ clips from Ancon Building Products available (205mm-305mm).
Movement Joint:	Vertical movement joints should be inserted every 5 metres - BS.EN 1996 and IS.EN 1996-1-1
Bed Joint Reinforcement	Austenitic Stainless Steel mesh to be used in joints above and below openings. It is recommended to use 2 layers above and below the openings.

BLOCKWORK



Blocks shall be laid in a staggered joint pattern to ensure that only full blocks are placed under lintels or openings. Coursing units of the same strength as the wall should be used for closing cavities, at window reveals and for building in over steel lintels to eliminate cold bridging. High walls or long stretches of wall should be temporarily propped in windy conditions in accordance with guidance for concrete blocks.

NOTE : DO NOT USE DENSE BRICK INSTEAD OF COURSING UNITS

LINTELS

Insulated steel lintels are recommended to prevent cold bridging. If Full Fill insulation is used in the cavity, concrete lintels can be used but metal lathing should be placed over the face of the lintel extending 300mm over each edge, before plastering. Concrete lintels can also be used over internal doors. Lintels should bear onto a full block and should extend past the width of the opening by 100mm to 150mm. Heavy lintels or beams should be placed on a Padstone.

CUTTING AND CHASING:

Blocks are easily cut using hammer and bolster, hand saw or bench saw. The use of coursing units reduces the need for cutting and keeps waste to a minimum. **Vertical chasing must not exceed one third and where horizontal chasing, one sixth of the wall thickness.** Electrical socket boxes **should not** be placed back to back. A double blade disc saw connected to a vacuum cleaner can be used for vertical chasing while a socket box sinker can be used for electrical sockets, an S.D.S. type drill with a flat chisel blade will easily remove excess material.

NOTE : DO NOT USE HAMMER ACTION OR PERCUSSION TYPE TOOLS

RENDERING AND PLASTERING

Internal:

- (1) Dampen blockwork with a fine water spray to reduce suction.
- (2) Apply scud coat 2:1 sand/cement with waterproofer.
- (3) Alternatively a proprietary bonding agent may be used, e.g. Evobond, Unibond, or PVA bond by Larsen Building Products.
- (4) Scratch coat 6:1 sand/cement to a depth of 8-12mm.
Dabs with dry lining plasterboard or dry lining insulated plasterboard can be used as an internal finish.
Gypsum Bond or proprietary lightweight finishes are compatible with Quinn Lite Thermal Blockwork. Internal plastering should be in accordance with BS EN 13914-2 and BS 8481. A medium grain sized sand is ideal.

External:

External render should be PRAL D by Weber Building Solutions or other equal and approved. Drying must not be accelerated at any stage during building. The Building should be allowed to dry before plastering begins.

NOTE : QUINN LITE BLOCKS ARE NOT SUITABLE FOR FAIR FACED APPLICATIONS

FIXINGS

Please contact Masonry Fixing Services Limited.

Tel: +353 1642 6789

Email: info@masonryfixings.ie Web: www.masonryfixings.ie

SOUND INSULATION

To meet and further enhance the required Building Regulations for party wall construction using Quinn Lite we recommend using 50mm Isover Calibel insulated plasterboard to both sides of the wall. The recommended build-up for this is a solid 215 mm thick wall or a cavity wall comprising two leaves of 100mm block with a 75mm cavity.

LOADING

Quinn Lite Blocks are load bearing however a minimum requirement of 150mm 5N Block is required if placing a load bearing slab on to the Blockwork. However, it is recommended that specialist advise is sought from a Structural Engineer prior to placing a load on the blocks to ensure the strength of blocks is suitable for that load.

For further information:

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Every effort has been taken in the preparation of this data sheet to ensure the accuracy of representations contained herein. Recommendations as to the use of materials, construction details and methods of installation are given in good faith and relate to typical situations. However, every site has different characteristics and reliance should not be placed upon the foregoing recommendations. Advice can be given as to specific applications of the products, upon request to Quinn Therm.

Additional Quinn Lite Technical Information | t: +44 (0) 28 6774 8866 | www.quinn-buildingproducts.com | technical@quinn-buildingproducts.com