Roadstone – leading supplier of building materials

Thermal Liteblock™

WINNER Best Interior Building Product – *RIAI Architecture Choice Awards*

WINNER Best New Product Innovation – *Irish Build & Design Awards*

WINNER Construction Product of the Year – *Irish Construction Industry Awards*

Now including 13N/mm² block

Roadstone Thermal Liteblock is manufactured in Ireland, achieving Thermal conductivity (Lambda λ) values less than 0.33 W/mK, using a special mix which includes light weight aggregates. This mix produces a concrete block with excellent insulation properties, while maintaining structural strength and allowing for traditional construction methods to be used.

Roadstone Thermal Liteblock system combines the Roadstone Thermal Liteblock with the Roadstone concrete block range, which when used in accordance with the Acceptable Construction Details (ACDs), achieves Psi values equal to or better than the standards set out in TGD Part L 2011.

Roadstone have thermally modeled all relevant details in appendix D of TGD L 2011. From this extensive research Roadstone are now in a position to provide detail solutions that comply fully with Psi value requirements outlined in TGD L 2011- Appendix D.

Key features and benefits

- Reduced Thermal Bridging resulting in reduced heat loss, and lower heating bills.
- Excellent thermal conductivity (Lambda λ) value less than 0.33 W/mK for masonry block.
- Robust and durable concrete block with a compressive strength of 7.5N/mm² and 13N/mm²
- Suits traditional construction methods familiar to Irish and UK designers and builders.
- CE marked– manufactured to the requirements of I.S. EN 771-3 to System 2+.
- Thermal Liteblock is required only in key locations in conjunction with the Roadstone Concrete Block range.
- The Roadstone Thermal Liteblock system is a very cost effective solution and can result in significant savings in the overall build cost
- Improved (y) value calculations are achieved when using the Roadstone Thermal Liteblock system.
- When a full building specific (y) value calculation is carried out using the Psi Values incorporating the Roadstone thermal Liteblock, improved (y) value of between 0.03 and 0.06 can typically be achieved.
- Compliant U-values are achieved without having to provide a cavity in excess of 150mm.
- Roadstone Thermal Liteblock is unique in colour to enable traceability on site. Photographic recording of the Thermal Liteblock built on site can then form evidence of compliance for the

Assigned Certifier, Architects, Engineers and BER assessors.

Technical specification

Thermal Bridging Details

Download the full range of Technical Drawings

- Type 1
- Type 2
- Type 4
- Type 6
- Type G
- Bespoke

Type 1: Cavity Wall – full and partial fill insulation

RS 1.01b FF INSULATION ABOVE SLAB rev-A	PDF » DWG »
RS 1.01b PF INSULATION ABOVE SLAB revA	PDF » DWG »
RS 1.02b FF INSULATION BELOW SLAB revA.pdf	PDF » DWG »
RS 1.02b PF INSULATION BELOW SLAB revA	PDF » DWG »
RS 1.04 INTERMEDIATE FLOOR CONCRETE revA	PDF » DWG »
RS 1.04a INTERMEDIATE FLOOR CONCRETE revA.pdf	PDF » DWG »
RS 1.05-&-1.05a-TIMBER-INTERMEDIATE-FLOOR revA	PDF » DWG »
RS 1.06.1 PLAN PARTY WALL revA	PDF » DWG »
RS 1.09a EAVES 215 TLB TRUSS ROOF revA	PDF » DWG »
RS 1.15 GABLE WALL- CEILING revA	PDF » DWG »
RS 1.19 FLAT ROOF EAVES revA	PDF » DWG »
RS 1.20 FLAT ROOF PARAPET revA	PDF » DWG »
RS 1.21 WINDOW HEAD + 1 TLBLOCK revA	PDF » DWG »
RS 1.23.1 WIND HD – PRESTRES LINTL + 1 TLBLOCK revA	PDF » DWG »
RS 1.23.2 WIND HD – PRESTRES LINTL + 1 TLB+CLOSER revA	PDF » DWG »
RS 1.24 WIND JAMB RSTLB CLOSER SPECIAL revA	PDF » DWG »
RS 1.26.2 WIND SILL + CLOSER revA	PDF » DWG »

Type 2: External insulation onto masonry walls

RS 2.01 GF INSU ABOVE SLAB – WALL – EXT INSULATION revA	PDF » DWG »
RS 2.02 GF INSU BELOW SLAB – WALL – EXT INSULATION revA	PDF » DWG »
RS 2.14 WALL EXT INSULATION – CEILING revA	PDF » DWG »
RS 2.19 WALL EXT INSULATION – PARAPET revA	PDF » DWG »

Type 4: Framed Construction

RS 4.02 TIMBER FRAME WALL – FLOOR + 140 SPECIAL RSTLB revA	PDF » DWG »
RS 4.23.1 TF PARTY WALL CAVITY – FLOOR + RSTLB revA	PDF » DWG »

RS 4.23.2 TF100 PARTY WALL – FLOOR + RSTLB revA	PDF » DWG »

Type 6: Internal insulation with twin-pot cavity block

RS 6.04 TWIN POT – TIMBER INTERMEDIATE FLOOR revA	PDF » DWG »
RS 6.08 & 6.09 TWIN POT EAVES revA	PDF » DWG »
RS 6.11 TWIN POT – SLOPED CEILINGS revA	PDF » DWG »

Type G: Partitions and Separating or Party Walls

RS G.01.1 SEPARATING CAV WALL HEAD + RSTLB revA	PDF » DWG »
RS G.01.2 SEPARATING 215 WALL HEAD + RSTLB revA	PDF » DWG »
RS G.05.1 SEPARATING WALL – FLOOR revA	PDF » DWG »
RS G.05.2 SEPARATING WALL (100) – FLOOR revA	PDF » DWG »

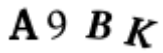
Bespoke: Roadstone Certified Details

RS BWH 001 BAY WIN HEAD SHS EXT. WALL revA	PDF » DWG »
RS LTR 001 EAVES AND WALL WITH UB revA	PDF » DWG »
RS TH 001 THRESHOLD DETAIL revA	PDF » DWG »
RS TH 001 STEPPED THRESHOLD DETAIL revA	PDF » DWG »

FAQ >> Download Declaration of Performance >> Download Brochure >>

Quick Queries

You can download the Thermal Liteblock brochure here or if you have any other questions feel free to ask us here and we'll respond to you as soon as possible.



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Alternatively you can contact a member of our support team directly.

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