Full fill or Partial fill cavity wall insulation?

Superwall achieves all the thermal performance you need

Non-combustible solution.
All Superglass products are deemed non-combustible with a fire classification of Euroclass A1 (the highest possible rating) when tested to BS EN 13501-1 Reaction to Fire.

BBA approved
Superwall Cavity Batts are British Board of Agrément (BBA) approved for full or partial fill in new-build domestic & non-domestic external masonry cavity walls.

Full Fill applications – BBA approved for buildings up to 25m in height (additional requirements may apply for buildings above 12m, please refer to BBA certificate for more information).

Partial Fill applications – Unrestricted in height (additional requirements may apply for buildings above 25m, please refer to BBA certificate for more information).

BBA approved for all UK exposure zones (subject to the conditions detailed in the BBA certificate).

Economical choice
Compared to rigid board insulation materials, Superwall cavity batts are not only more cost effective, but are far quicker and easier to install.

The physical properties of glass mineral wool and the flexibility of the product adapts to imperfections in the substrate, eliminating any air gaps and therefore achieving real thermal performance when installed in cavity wall applications.

Environmental performance
All Superwall products are manufactured in the UK in accordance with ISO 14001 Environmental Management Systems (EMS).

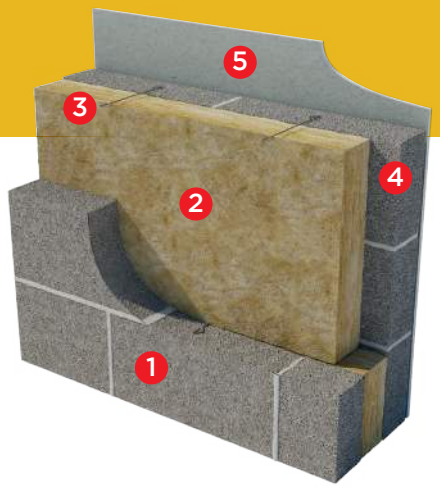
Generic BRE Green Guide rating of A+ and contains no ozone depleting substances or greenhouse gases.

Manufactured from up to 84% recycled glass.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 89/2231

Intelligent Environments
Superglass

Block & Block Construction



1. Outer Leaf - 100mm Blocks with render
2. Superwall Cavity Batt in full fill or partial fill cavity (partial fill requires a minimum 50mm residual cavity)
3. Wall ties
4. Inner Leaf - 100mm Blocks
5. 12.5mm Standard Plasterboard on dabs

Partial Fill Solution with 50mm residual cavity

Outer Leaf - Blocks	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)
Inner leaf - Blocks	**100mm Dense (1.13W/mK)**	**100mm Medium dense (0.45W/mK)**	**100mm Ultra Lightweight Aggregate (0.28W/mK)**	**100mm High Strength Aircrete (0.19W/mK)**	**100mm Standard Aircrete (0.15W/mK)**	**100mm High Performance Aircrete (0.11W/mK)**
100mm Superwall 36	0.28	0.28	0.27	0.26	0.25	0.24
125mm Superwall 36	0.25	0.24	0.23	0.23	0.22	0.21
150mm Superwall 36	0.21	0.21	0.20	0.20	0.19	0.19
175mm Superwall 36 (100+75mm)	0.19	0.18	0.18	0.18	0.17	0.17
200mm Superwall 36 (2x100mm)	0.17	0.16	0.16	0.16	0.15	0.15
100mm Superwall 34	0.27	0.26	0.26	0.25	0.24	0.23
125mm Superwall 34	0.24	0.23	0.23	0.22	0.21	0.21
150mm Superwall 34	0.20	0.20	0.19	0.19	0.19	0.18
175mm Superwall 34 (100+75mm)	0.18	0.18	0.17	0.17	0.16	0.16
200mm Superwall 34 (2x100mm)	0.16	0.16	0.15	0.15	0.15	0.14
100mm Superwall 32	0.26	0.25	0.24	0.24	0.23	0.22
125mm Superwall 32	0.23	0.22	0.22	0.21	0.20	0.20
150mm Superwall 32	0.19	0.19	0.19	0.18	0.18	0.17
175mm Superwall 32 (100+75mm)	0.17	0.17	0.16	0.16	0.16	0.15
200mm Superwall 32 (2x100mm)	0.15	0.15	0.15	0.14	0.14	0.14

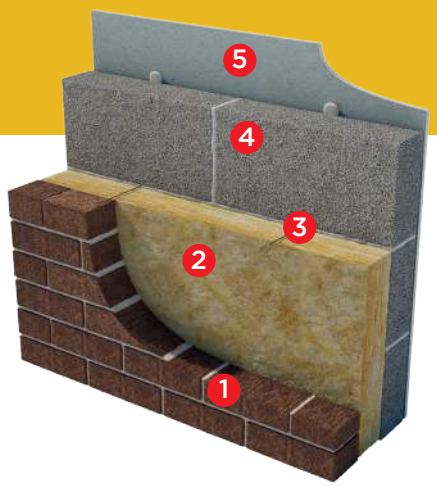
Full Fill Solution

Outer Leaf - Blocks	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)	100mm Dense (1.13W/mK)
Inner leaf - Blocks	**100mm Dense (1.13W/mK)**	**100mm Medium dense (0.45W/mK)**	**100mm Ultra Lightweight Aggregate (0.28W/mK)**	**100mm High Strength Aircrete (0.19W/mK)**	**100mm Standard Aircrete (0.15W/mK)**	**100mm High Performance Aircrete (0.11W/mK)**
100mm Superwall 36	0.30	0.29	0.28	0.27	0.26	0.25
125mm Superwall 36	0.25	0.24	0.23	0.23	0.22	0.21
150mm Superwall 36	0.21	0.21	0.20	0.20	0.19	0.19
175mm Superwall 36 (100+75mm)	0.19	0.19	0.19	0.18	0.18	0.17
200mm Superwall 36 (2x100mm)	0.17	0.17	0.17	0.16	0.16	0.15
100mm Superwall 34	0.29	0.28	0.27	0.26	0.25	0.24
125mm Superwall 34	0.24	0.23	0.22	0.22	0.21	0.21
150mm Superwall 34	0.20	0.20	0.19	0.19	0.18	0.18
175mm Superwall 34 (100+75mm)	0.18	0.18	0.18	0.17	0.17	0.16
200mm Superwall 34 (2x100mm)	0.16	0.16	0.16	0.15	0.15	0.15
100mm Superwall 32	0.27	0.26	0.26	0.25	0.24	0.23
125mm Superwall 32	0.22	0.22	0.21	0.21	0.20	0.20
150mm Superwall 32	0.19	0.19	0.18	0.18	0.17	0.17
175mm Superwall 32 (100+75mm)	0.18	0.17	0.17	0.16	0.16	0.16
200mm Superwall 32 (2x100mm)	0.16	0.15	0.15	0.15	0.14	0.14

Note:
The U-values have been calculated assuming the wall ties assumed to be stainless steel at 2.5 per m² and with a cross-sectional area of:
- Cavity Width: 100mm – 124mm = 12.5mm²
- Cavity Width: 125mm – 150mm = 24mm²
- Cavity Width: Greater than 151mm = 60mm²

Air gap correction level is zero. Multiple layers are required for several of the solutions detailed above.

Brick & Block Construction



1. Outer Leaf - 102.5mm Brick
2. Superwall Cavity Batt in full fill or partial fill cavity (partial fill requires a minimum 50mm residual cavity)
3. Wall ties
4. Inner Leaf - 100mm Blocks
5. 12.5mm Standard Plasterboard on dabs

Partial Fill Solution with 50mm residual cavity

Outer Leaf - Brick	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)
Inner leaf - Blocks	100mm Dense (1.13W/mK)	100mm Medium dense (0.45W/mK)	100mm Ultra Lightweight Aggregate (0.28W/mK)	100mm High Strength Aircrete (0.19W/mK)	100mm Standard Aircrete (0.15W/mK)	100mm High Performance Aircrete (0.11W/mK)
100mm Superwall 36	0.28	0.27	0.27	0.26	0.25	0.24
125mm Superwall 36	0.25	0.24	0.23	0.23	0.22	0.21
150mm Superwall 36	0.21	0.21	0.20	0.20	0.19	0.19
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200mm Superwall 36 (2x100mm)	0.17	0.16	0.16	0.16	0.15	0.15
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125mm Superwall 34	0.24	0.23	0.22	0.22	0.21	0.20
150mm Superwall 34	0.20	0.20	0.19	0.19	0.18	0.18
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150mm Superwall 32	0.19	0.19	0.18	0.18	0.18	0.17
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200mm Superwall 32 (2x100mm)	0.15	0.15	0.15	0.14	0.14	0.14

Full Fill Solution

Outer Leaf - Brick	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)	102.5mm (0.77W/mK)
Inner leaf - Blocks	100mm Dense (1.13W/mK)	100mm Medium dense (0.45W/mK)	100mm Ultra Lightweight Aggregate (0.28W/mK)	100mm High Strength Aircrete (0.19W/mK)	100mm Standard Aircrete (0.15W/mK)	100mm High Performance Aircrete (0.11W/mK)
100mm Superwall 36	0.30	0.29	0.28	0.27	0.26	0.25
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150mm Superwall 36	0.21	0.21	0.20	0.20	0.19	0.19
175mm Superwall 36 (100+75mm)	0.19	0.19	0.18	0.18	0.18	0.17
200mm Superwall 36 (2x100mm)	0.17	0.17	0.16	0.16	0.16	0.15
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175mm Superwall 34 (100+75mm)	0.18	0.18	0.18	0.17	0.17	0.16
200mm Superwall 34 (2x100mm)	0.16	0.16	0.16	0.15	0.15	0.15
100mm Superwall 32	0.27	0.26	0.25	0.25	0.24	0.23
125mm Superwall 32	0.22	0.22	0.21	0.21	0.20	0.19
150mm Superwall 32	0.19	0.19	0.18	0.18	0.17	0.17
175mm Superwall 32 (100+75mm)	0.17	0.17	0.17	0.16	0.16	0.16
200mm Superwall 32 (2x100mm)	0.15	0.15	0.15	0.15	0.14	0.14

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- Cavity Width: 125mm – 150mm = 24mm^2
- Cavity Width: Greater than 151mm = 60mm^2

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New online U-Value Calculator for Superglass Insulation.

Visit: www.superglass.co.uk/u-value-calculation/

Intelligent Environments
Superglass

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REF: UV02
VERSION: MAY2024

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