

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 13501-1:2018 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).



CCPI (Code for Construction Product Information)

Superglass Superwall Cavity Batts hold a CCPI Assessment Mark. Certificate number: 005800103/1026.



Environmental performance

All Superglass products are manufactured in accordance with ISO 14001:2015 - Environmental Management Systems (EMS). They have a Generic BRE Green Guide rating of A+, contain no ozone-depleting substances or greenhouse gases, and are made from up to 84% recycled glass.



Thermal performance

Declared thermal conductivity (λ) value) of:

Superwall 32 = 0.032W/mK

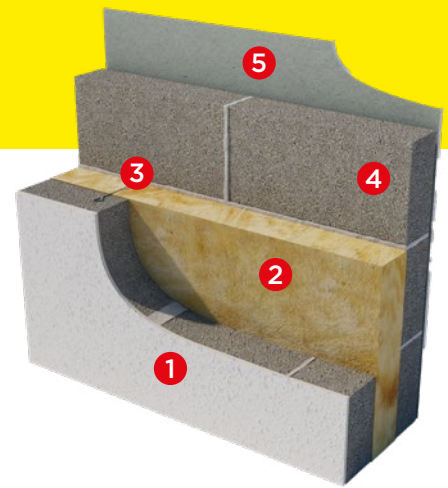
Superwall 34 = 0.034W/mK

Superwall 36 = 0.036W/mK



Block & Block Construction

- ❶ Outer Leaf - 100mm Blocks with render
- ❷ Superwall Cavity Batt in full fill or partial fill cavity (partial fill requires a minimum 50mm residual cavity)
- ❸ Wall ties
- ❹ Inner Leaf - 100mm Blocks
- ❺ 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 Lightweight 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 Lightweight 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:

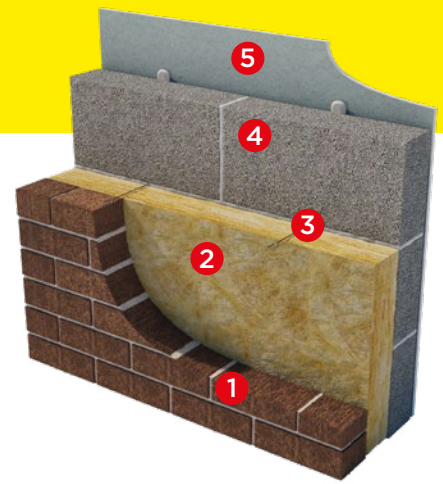
The U-values have been calculated assuming the wall ties to be stainless steel at 2.5 per m² and with a cross-sectional area of:

- 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 Lightweight 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
175mm Superwall 36 (100+75mm)	0.19	0.18	0.18	0.17	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	0.25	0.25	0.24	0.23
125mm Superwall 34	0.24	0.23	0.22	0.22	0.21	0.20
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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 Lightweight Aircrete (0.11W/mK)
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150mm Superwall 34	0.20	0.20	0.19	0.19	0.18	0.18
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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
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Note:

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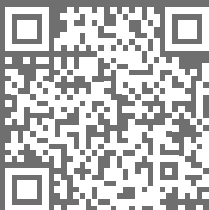
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Online U-value calculator and Psi-value calculation tool.

Visit:



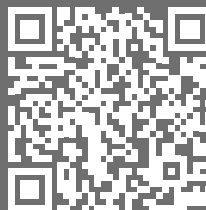
U-Value calculator



Psi-value calculator

Find out more about CCPI Assessed Product Information.

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