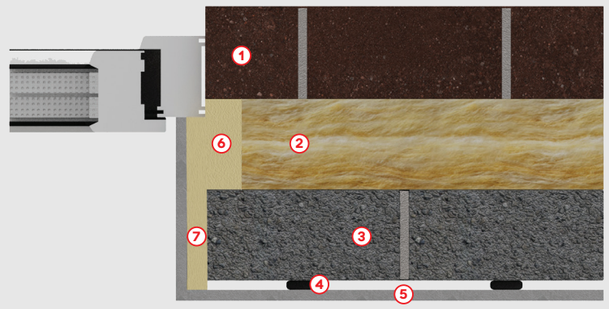
E04 – Window Jamb

Superglass Superwall 32 & Superwall 34 Cavity Batt

Date of Issue: September 2026

	Wall Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Outer Leaf Brickwork	102.5	0.77
Superglass Superwall Cavity Batt	Shown in tables below	
Inner Leaf Blockwork	100	Shown in tables below
Plaster Dabs	15	0.088
Standard Plasterboard	12.5	0.19

Linear Thermal Transmittance (Ψ-value) and Temperature Factor (f-value) calculated for a range of block types and insulation thicknesses.



1. 102.5mm Outer Leaf Brickwork
2. Superglass Superwall Cavity Batt
3. 100mm Inner Leaf Blockwork
4. 15mm Plaster Dabs
5. 12.5mm Standard Plasterboard
6. 45mm Cavity Closer
7. 15mm Insulation

Images for illustration purposes only.

Superwall 32 – 0.032W/mK

	Insulation & Cavity Thickness	100mm		125mm		150mm		175mm (100+75mm)		200mm (2x100mm)	
Block Type	**Thermal Conductivity (W/mK)**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**
Lightweight Aircrete	0.11	0.008	0.932	0.011	0.929	0.013	0.928	0.016	0.928	0.017	0.927
Standard Aircrete	0.15	0.007	0.933	0.010	0.930	0.012	0.929	0.015	0.928	0.016	0.928
High Strength Aircrete	0.19	0.007	0.933	0.010	0.930	0.012	0.929	0.014	0.928	0.016	0.928
Ultra Lightweight Aggregate	0.28	0.006	0.934	0.009	0.930	0.012	0.929	0.014	0.928	0.016	0.928
Medium Dense	0.45	0.005	0.934	0.009	0.931	0.011	0.929	0.014	0.928	0.015	0.928
Dense Concrete	1.13	0.005	0.935	0.008	0.931	0.011	0.929	0.013	0.928	0.015	0.928

Superwall 34 – 0.034W/mK

	Insulation & Cavity Thickness	100mm		125mm		150mm		175mm (100+75mm)		200mm (2x100mm)	
Block Type	**Thermal Conductivity (W/mK)**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**
Lightweight Aircrete	0.11	0.008	0.932	0.011	0.929	0.013	0.928	0.015	0.927	0.017	0.927
Standard Aircrete	0.15	0.007	0.933	0.010	0.929	0.012	0.928	0.015	0.927	0.016	0.927
High Strength Aircrete	0.19	0.006	0.933	0.009	0.930	0.012	0.929	0.014	0.928	0.016	0.927
Ultra Lightweight Aggregate	0.28	0.005	0.934	0.009	0.930	0.011	0.929	0.014	0.928	0.015	0.928
Medium Dense	0.45	0.005	0.934	0.008	0.930	0.011	0.929	0.013	0.928	0.015	0.928
Dense Concrete	1.13	0.004	0.934	0.008	0.931	0.010	0.929	0.013	0.928	0.015	0.928

The window jamb is lined with 15mm PIR insulation with a thermal conductivity of 0.022W/mK and a 12.5mm plasterboard with a thermal conductivity of 0.19W/mK. The cavity closer is 45mm high insulation with a thermal conductivity of 0.026W/mK.

The adiabatic frame is 70mm wide, with a 30mm overlap.

The results have been generated using AutoPsi Thermal Modelling Tool. The calculations have been completed using the methodology outlined in BS EN ISO 10211 and in accordance with BR497 2nd Edition.

Any deviation from the details used as part of this calculation will result in the calculation being inaccurate. To request a copy of a calculation or a different build-up please email technical.stirling@etexgroup.com