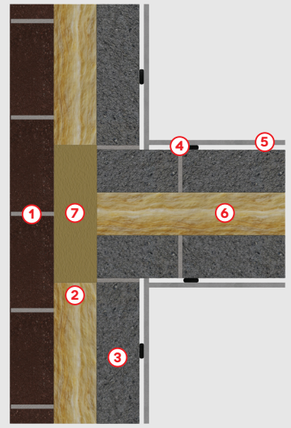
E18 – Party wall between dwellings

Superglass Superwall 34 Cavity Batt

Date of Issue: September 2026

	External Wall Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Outer Leaf Brickwork	102.5	0.77
Superglass Superwall 34 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

	Party Wall Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Standard Plasterboard	12.5	0.19
Plaster Dabs	15	0.088
Standard Aircrete Blocks	100	0.15
Superglass Party Wall Roll	100	0.036
Standard Aircrete Blocks	100	0.15
Plaster Dabs	15	0.088
Standard Plasterboard	12.5	0.19



1. 102.5mm Outer Leaf Brickwork
2. Superglass Superwall 34 Cavity Batt
3. 100mm Inner Leaf Blockwork
4. 15mm Plaster Dabs
5. 12.5mm Standard Plasterboard
6. 100mm Superglass Party Wall Roll
7. Cavity Barrier

Images for illustration purposes only.

Linear Thermal Transmittance (Ψ-value) and Temperature Factor (f-value) calculated for a range of block types and insulation thicknesses.
Ψ – values shown below are applicable to each dwelling on either side of the party wall.

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	0.036	0.947	0.031	0.945	0.028	0.958	0.025	0.963	0.023	0.959
Standard Aircrete	0.15	0.036	0.946	0.031	0.945	0.028	0.958	0.025	0.963	0.023	0.959
High Strength Aircrete	0.19	0.037	0.945	0.032	0.944	0.029	0.958	0.026	0.963	0.023	0.959
Ultra Lightweight Aggregate	0.28	0.038	0.945	0.033	0.944	0.029	0.958	0.026	0.964	0.024	0.959
Medium Dense	0.45	0.039	0.945	0.033	0.944	0.030	0.959	0.026	0.964	0.024	0.959
Dense Concrete	1.13	0.040	0.947	0.035	0.946	0.031	0.961	0.027	0.966	0.025	0.961

Stone Mineral Wool Insulation cavity barrier with a thermal conductivity of 0.035W/mK.

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