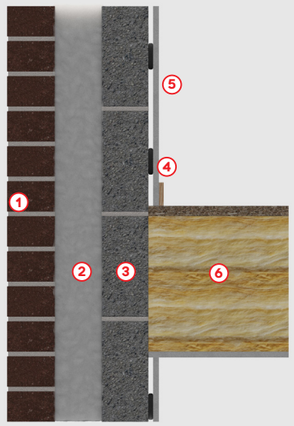
E20 - Exposed floor over garage (normal)

Superglass Superwhite 34 Blown Cavity Insulation



1. 102.5mm Outer Leaf Brickwork
2. Superglass Superwhite 34 Blown
3. 100mm Inner Leaf Blockwork
4. 15mm Plaster Dabs
5. 12.5mm Standard Plasterboard
6. 240mm of Superglass Adapt Slab 35

Images for illustration purposes only.

Date of Issue: September 2026

	External Wall Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Outer Leaf Brickwork	102.5	0.77
Superglass Superwhite 34 Blown Cavity Insulation	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)**
Chipboard Flooring	22	0.13
Superglass Adapt Slab 35	240 (100+140)	0.035
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.

Superwhite 34 Blown Cavity Insulation - 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	0.037	0.913	0.036	0.918	0.035	0.923	0.037	0.922	0.035	0.928
Standard Aircrete	0.15	0.045	0.907	0.044	0.912	0.042	0.917	0.045	0.917	0.043	0.922
High Strength Aircrete	0.19	0.052	0.902	0.051	0.907	0.049	0.913	0.052	0.912	0.050	0.918
Ultra Lightweight Aggregate	0.28	0.067	0.894	0.065	0.899	0.064	0.905	0.067	0.904	0.066	0.910
Medium Dense	0.45	0.091	0.884	0.090	0.888	0.089	0.894	0.094	0.893	0.092	0.899
Dense Concrete	1.13	0.174	0.863	0.172	0.866	0.171	0.872	0.182	0.870	0.179	0.877

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