

VAULTED ROOFS - MINIMUM PITCH 15°

- U-VALUE: 0.15W/m²K Minimum
1. BETWEEN - Kingspan K107 (120mm)
 2. UNDER - K118 Kooltherm K7 Insulated Plasterboard** (32.5mm)

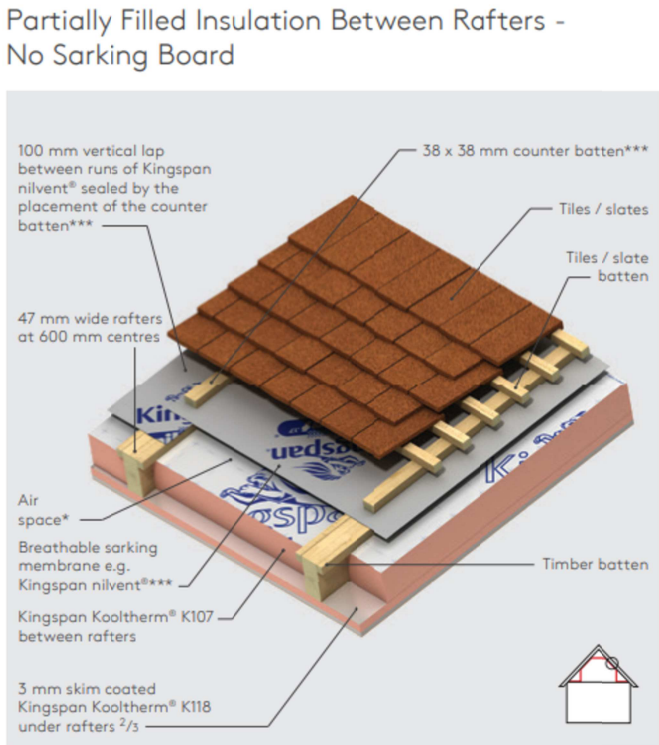


Figure 1c

U-values (W/m²K) for Various Thicknesses of Kingspan Kooltherm® K118 Assuming Rafters of Depth Shown Partially Filled with Kingspan Kooltherm® K107			
Thickness of Kingspan Kooltherm® K107 (mm)	Product Thickness of Kingspan Kooltherm® K118** (mm)		
	32.5	57.5	72.5
150 mm Deep Rafters			
45	X	●	●
50	0.25	0.19	●
55	0.24	0.18	●
60	0.23	0.17	0.15
65	0.22	0.17	0.15
70	0.21	0.16	0.14
75	0.20	0.16	0.14
80	0.19	0.15	0.13
90	0.18	0.14	0.13
100	0.17	0.14	0.12
110	0.16	0.13	0.12
120	+	0.15	0.11
125	0.15	0.12	0.11

* A minimum 13 mm air space must be maintained above the insulation in order to claim the maximum thermal resistance in the cavity.

** Product thickness = insulant thickness + 12.5 mm plasterboard.

*** If sealing the roof is deemed to be unimportant, it is possible to lay the breathable membrane in horizontal runs, draped between rafters. This negates the requirement for counter battens. The U-values shown above remain valid.

NB Refer to local distributor or Kingspan Insulation price list for current stock and non-stock sizes.

FLOOR SLAB 0.13w/m2K
KINGSPAN TF70 - 150mm

Solid concrete ground based floors
Insulation below the floor slab

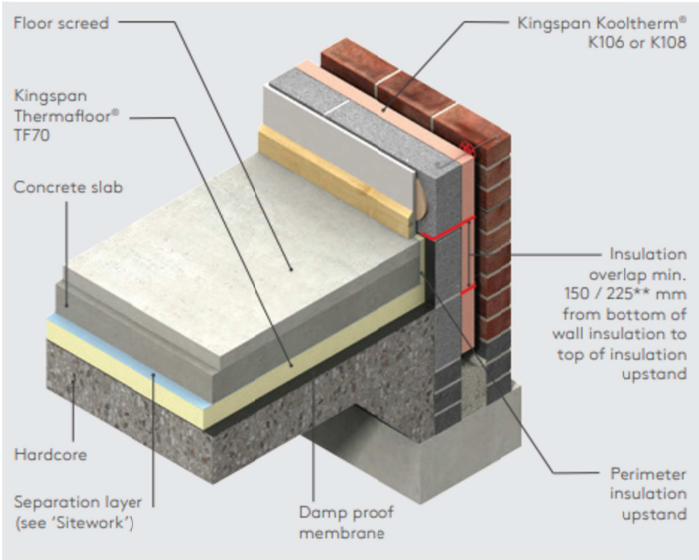


Figure 5

U-values (W/m²K) for various thicknesses of Kingspan Thermafloor® TF70 and floor perimeter / area ratios						
Insulant thickness (mm)	Perimeter / area (m⁻¹)					
	0.2	0.3	0.4	0.5	0.6	0.7
30	X	X	X	X	X	X
40	0.23	X	X	X	X	X
50	0.20	0.24	X	X	X	X
60	0.19	0.21	0.23	0.24	X	X
70	0.17	0.19	0.21	0.22	0.22	0.23
75	0.16	0.18	0.20	0.21	0.21	0.22
80	0.16	0.18	0.19	0.20	0.20	0.21
90	0.15	0.16	0.17	0.18	0.19	0.19
100	0.14	0.15	0.16	0.17	0.17	0.18
110	0.13	0.14	0.15	0.16	0.16	0.16

Installer will refer to manufacturers technical information for further installation details and information

ALL WORKS TO BE UNDERTAKEN TO LATEST BUILDING REGULATIONS, BRITISH STANDARDS AND MANUFACTURERS RECOMMENDATIONS

TOWN AND COUNTRY PLANNING ACT 1990 - Advice to be taken from the Local Authority by Client, full planning permission should be applied for and obtained by the owners Prior to work commencing

BUILDING REGULATIONS APPROVAL - is required for this project. The contractor must provide the appointed Building control body with all statutory notices for inspections and must liaise with the statutory undertakers and comply with their requirements.

PARTY WALL ACT - Prior to commencing work the builder/owners shall ensure that neighbors have been given notice under the Party Wall Act 1996.

CDM REGULATIONS 2015 - The contractor/builder shall be fully aware of the latest Construction (Design and Management) Regulations 2015. The contractor shall notify the Health and Safety Executive where required.

GENERAL - All dimensions given whether figured or scaled are to be checked and verified on site by the contractor prior to commencement of work. Figured dimensions are to take preference over scaled dimensions.

PURPOSE Planning and Building Regulations Only		SITE ADDRESS Abrigo, Moor Ln, Fazakerley, Liverpool L10 0AP	
WORK	Erection of a single storey wraparound extension, new porch, render main dwelling, window replacements, main roof alterations, landscaping upgrade, parking and driveway alterations to dwelling house		
		Number 2.5	REVISION A
DRAWING Proposed Sections		SCALE 1 - A3 1:25	