

THERMAL BRIDGING

Calculation Type: New Build (As Designed)

Property Reference	S17212	Issued on Date	17/10/2017
Survey Reference	Original	Prop Type Ref	
Property	New Dwelling, Horseshoe Lane, Chadlington, OX7 3NB		
SAP Rating	82 B	DER	12.55
Environmental	87 B	TER	15.95
CO ₂ Emissions (t/year)	3.01	% DER<TER	21.33
General Requirements Compliance	Pass	DFEE	61.71
		TFEE	65.78
		% DFEE<TFEE	6.18
Surveyor	Malcolm Lisle, Tel: 01142521995	Surveyor ID	8227-0002
Client			

	Junction detail	Source Type	Psi (W/mK)	Length (m)	Result	Reference
External wall	E1 Steel lintel with perforated steel base plate	Independently assessed	0.050	26.30	1.32	
External wall	E3 Sill	Table K1 - Approved	0.040	18.30	0.73	
External wall	E4 Jamb	Table K1 - Approved	0.050	56.80	2.84	
External wall	E5 Ground floor (normal)	Table K1 - Approved	0.160	77.70	12.43	
External wall	E6 Intermediate floor within a dwelling	Table K1 - Approved	0.070	21.10	1.48	
External wall	E10 Eaves (insulation at ceiling level)	Table K1 - Approved	0.060	20.40	1.22	
External wall	E11 Eaves (insulation at rafter level)	Table K1 - Approved	0.040	30.90	1.24	
External wall	E12 Gable (insulation at ceiling level)	Table K1 - Approved	0.240	9.55	2.29	
External wall	E13 Gable (insulation at rafter level)	Table K1 - Approved	0.040	14.80	0.59	
External wall	E14 Flat roof	Table K1 - Default	0.080	24.20	1.94	
External wall	E16 Corner (normal)	Table K1 - Approved	0.090	29.10	2.62	
External wall	E17 Corner (inverted – internal area greater than external area)	Table K1 - Approved	-0.090	18.20	-1.64	
External roof	R1 Head of roof window	Table K1 - Default	0.080	2.70	0.22	
External roof	R2 Sill of roof window	Table K1 - Default	0.060	2.70	0.16	
External roof	R3 Jamb of roof window	Table K1 - Default	0.080	7.20	0.58	
External roof	R6 Flat ceiling	Table K1 - Default	0.060	6.00	0.36	

Total: **28.37** W/mK:
Y-Value: **0.043** W/m²K: