BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)



Property Reference	18210 Plot 138				Issued on Date	31/01/2021
Assessment	138			Prop Type Ref	Keighley h	
Reference						
Property	135, Golf Road, MABLE	THORPE, LN12				
SAP Rating		82 B	DER	19.22	TER	19.24
Environmental		84 B	% DER <ter< th=""><th></th><th>0.09</th><th></th></ter<>		0.09	
CO ₂ Emissions (t/y	rear)	1.70	DFEE	55.83	TFEE	60.22
General Requirem	ents Compliance	Pass	% DFEE <tfee< th=""><th></th><th>7.28</th><th></th></tfee<>		7.28	
Assessor Details	Mr. Robert Atherton, Low robert@lowcarbonbox.co.		ited, Tel: 075409	977134,	Assessor ID	F291-0001
Client						

SUMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating Mains gas Fuel factor 1.00 (mains gas) $kgCO_2/m^2$ Target Carbon Dioxide Emission Rate (TER) 19.24 Dwelling Carbon Dioxide Emission Rate (DER) 19.22 $kgCO_2/m^2$ **Pass** -0.02 (-0.1%) $kgCO_2/m^2$ 1b TFEE and DFEE Target Fabric Energy Efficiency (TFEE) 60.22 kWh/m²/yr

Dwelling Fabric Energy Efficiency (DFEE) 55.83 kWh/m²/yr

-4.4 (-7.3%) kWh/m²/yr **Pass**

Criterion 2 - Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.25 (max. 0.30)	0.25 (max. 0.70)	Pass
Floor	0.18 (max. 0.25)	0.18 (max. 0.70)	Pass
Roof	0.14 (max. 0.20)	0.14 (max. 0.35)	Pass
Openings	1.39 (max. 2.00)	1.50 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability

Air permeability at 50 pascals 6.20 (design value) Maximum 10.0 **Pass**

Limiting System Efficiencies

4 Heating efficiency

Main heating system Boiler system with radiators or underfloor - Mains gas Data from database

Vaillant ecoFIT sustain 830 VUW 306/6-3 (H-GB)

Combi boiler

Efficiency: 89.3% SEDBUK2009

Minimum: 88.0%



Regs Region: England **Elmhurst Energy Systems** SAP2012 Calculator (Design System) version 4.14r16

Pass

BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)



Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
Space heating controls	Time and temperature zone control	Pass
Hot water controls	No cylinder	
Boiler interlock	Yes	Pass
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100	%
Minimum	75	% Pass
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.0900 0.0900 0.1100	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in su	mmer	
O Company antique a tomorphism		
9 Summertime temperature		
Overheating risk (East Pennines)	Slight	Pass
•	Slight	Pass
Overheating risk (East Pennines)	Slight	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East	Average 7.43 m², No overhang	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West	Average 7.43 m², No overhang 6.79 m², No overhang	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West	Average 7.43 m², No overhang 6.79 m², No overhang	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach None	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach None	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach None	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with Air permeability and pressure testing	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach None	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with Air permeability and pressure testing 3 Air permeability	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach None DER and DFEE rate	Pass
Overheating risk (East Pennines) Based on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	Average 7.43 m², No overhang 6.79 m², No overhang 4.00 ach None DER and DFEE rate 6.20 (design value)	

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.





Property Reference	18210 Plot :	138				Issu	ued on Da	ite 31/0	01/2021
Assessment	138				Prop Type	Ref Keigl	hley h		
Reference									
Property	135, Golf Ro	oad, MABLETH	HORPE, LN12						
SAP Rating			82 B	DER	19	9.22	ΓER		19.24
Environmental			84 B	% DER <ter< td=""><td></td><td></td><td>0.09</td><td></td><td></td></ter<>			0.09		
CO ₂ Emissions (t/year)		1.70	DFEE	55	5.83	ΓFEE		60.22
General Requirement	s Compliance		Pass	% DFEE <tfe< td=""><td>Ε</td><td></td><td>7.28</td><td></td><td></td></tfe<>	Ε		7.28		
rc	1r. Robert Atho obert@lowcar			ited, Tel: 07540	977134,		Assessor I	D F29	1-0001
Client									
SUMMARY FOR INPUT	DATA FOR: N	ew Build (As	Designed)						
Orientation		West			_				
Property Tenure		Unknown			_				
Transaction Type		New dwelling	g		_				
Terrain Type		Suburban							
1.0 Property Type		House, Detac	ched						
2.0 Number of Storeys		2							
3.0 Date Built		2021							
4.0 Sheltered Sides		2							
5.0 Sunlight/Shade		Average or u	nknown]				
				Heat Loss Perime	ter Into	ernal Floor	Area A	Verage Stor	ev Height
		Gr	ound Floor: 1st Storey:	Heat Loss Perime 31.13 m 27.08 m	ter Into	49.08 m ² 44.42 m ²		2.38 (2.69 (m
7.0 Living Area		G r. 18.62	ound Floor:	31.13 m	m²	49.08 m²		2.38	m
7.0 Living Area 8.0 Thermal Mass Parame	eter		ound Floor: 1st Storey:	31.13 m		49.08 m²		2.38	m
	eter	18.62	ound Floor: 1st Storey:	31.13 m		49.08 m²		2.38	m
8.0 Thermal Mass Parame	eter Type	Precise calcu 109.79	ound Floor: 1st Storey:	31.13 m	m²	49.08 m²		2.38	m
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls		Precise calcu 109.79 Cons	ound Floor: 1st Storey: lation	31.13 m	m² kJ/m²K	49.08 m ² 44.42 m ² U-Value	Карра	2.38 (2.69)	m m Nett Area
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls Description	Type Timber Fra Con:	18.62 Precise calcu 109.79 Cons	ound Floor: 1st Storey: llation struction per framed wall (o	31.13 m 27.08 m	m² kJ/m²K	49.08 m² 44.42 m² U-Value (W/m²K)	Kappa (kJ/m²K)	2.38 (2.69 d) 2.69 d) Gross Area (m²)	m m Nett Area (m²)
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls Description External Wall 9.2 Internal Walls	Type Timber Fra Con:	18.62 Precise calcu 109.79 Cons	ound Floor: 1st Storey: llation ctruction per framed wall (o	31.13 m 27.08 m	m² kJ/m²K	49.08 m² 44.42 m² U-Value (W/m²K)	Kappa (kJ/m²K)	2.38 (2.69) Gross Area (m²) 146.93	Nett Area (m²) 128.65
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls Description External Wall 9.2 Internal Walls Description Internal Partition 1	Type Timber Fra Con:	18.62 Precise calcu 109.79 Cons ame Timb struction terboard on timb terboard on timb	ound Floor: 1st Storey: llation ctruction per framed wall (o	31.13 m 27.08 m	m² kJ/m²K	49.08 m² 44.42 m² U-Value (W/m²K)	Kappa (kJ/m²K)	2.38 (2.69) Gross Area (m²) 146.93 Kappa (kJ/m²K) 9.00	Nett Area (m²) 128.65 Area (m²) 67.50
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls Description External Wall 9.2 Internal Walls Description Internal Partition 1 Internal Partition 2 10.0 External Roofs	Type Timber Fra Con: Plas:	18.62 Precise calcu 109.79 Cons ame Timb struction terboard on timb terboard on timb terboard on timb	lation struction per framed wall (or oper frame per frame	31.13 m 27.08 m	m² kJ/m²K	49.08 m² 44.42 m² U-Value (W/m²K) 0.25	Kappa (kJ/m²K) 9.00	2.38 (2.69) Gross Area (m²) 146.93 Kappa (kJ/m²K) 9.00 9.00 Gross Area	Nett Area (m²) 128.65 Area (m²) 67.50 117.82
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls Description External Wall 9.2 Internal Walls Description Internal Partition 1 Internal Partition 2 10.0 External Roofs Description	Type Timber Fra Con: Plas: Plas: Type External P	18.62 Precise calcu 109.79 Cons ame Timb struction terboard on timb terboard on timb terboard on timb	lation struction per frame per frame per frame struction	31.13 m 27.08 m	m² kJ/m²K	U-Value (W/m²K) 0.25	Kappa (kJ/m²K) 9.00 Kappa (kJ/m²K)	2.38 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (2.69 (Nett Area (m²) 128.65 Area (m²) 67.50 117.82 Nett Area (m²)
8.0 Thermal Mass Parame Thermal Mass 9.0 External Walls Description External Wall 9.2 Internal Walls Description Internal Partition 1 Internal Partition 2 10.0 External Roofs Description External Roof 10.2 Internal Ceilings	Type Timber Fra Con: Plas: Plas: Type External Pl	18.62 Precise calcu 109.79 Conserved Timb struction terboard on timb terboard on timb terboard on timb terboard on timb conserved Timb	lation struction per frame per frame per frame struction	31.13 m 27.08 m	m² kJ/m²K	U-Value (W/m²K) 0.25	Kappa (kJ/m²K) 9.00 Kappa (kJ/m²K)	2.38 (2.69) Gross Area (m²) 146.93 Kappa (kJ/m²K) 9.00 9.00 Gross Area (m²) 49.08	Nett Area (m²) 128.65 Area (m²) 67.50 117.82 Nett Area (m²) 49.08



Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r16



Description		Туре		Constr	uction						alue m²K)	Kappa (kJ/m²K)	Area (m²)
Ground Floor		Grour	nd Floor - Soli	d Slab or	n ground, scree	ed over ins	sulation			0.	18	110.00	49.08
11.2 Internal Floo Description	rs		Construction									Kappa (kJ/m²K)	Area (m²)
Internal Floor 1			Plasterboard	ceiling, ca	arpeted chipbo	oard floor						18.00	44.42
12.0 Opening Type	es												
Description		Source			Glazing		Glazing Gap	Argon Filled	G-val		rame Type	Frame Factor	U Value (W/m²K
Front Door	Man r	iufacture	Solid Door										1.20
Windows	r		Window		Double Low-E				0.73	1		0.70	1.40
HG Door	Man r	ufacture	Half Glazed	Door	Double Low-E	Soft 0.05			0.63	3		0.70	1.50
Garage door		ufacture	e Door to Co	ridor									0.91
13.0 Openings Name	Opening Ty	/pe	Location		Orientation	Curtain	Overhang	Wide	Width	Height	Coun		Curtain
Front Door	Solid Door		[1] External V	Vall	West	Туре	Ratio	Overhang	(m)	(m)		(m²) 2.15	Closed
Front Windows	Window		[1] External V		West	None	0.00					6.79	
Rear Windows	Window		[1] External V		East	None	0.00					7.43	
HG door	Half Glazed	Door	[1] External V	Vall	South							1.91	
14.0 Conservatory	/		None										
15.0 Draught Prod	ofing		100					%					
16.0 Draught Lobb	ру		No										
17.0 Thermal Brid	ging		Calcu	ate Brid	ges								
17.1 List of Bridge	s												
Source Type		Bridge	71			,	Length		Imported	l			
Independently a Independently a		E2 Oth	er lintels (incl	uding otr	er steel lintels	5)	13.29 9.77	0.085	No No	CBA-3	1 /		
Independently a		E4 Jam	ıh				30.00	0.034	No	CBA-3			
Independently a			und floor (no	rmal)			31.13	0.110	No	CD002			
Independently a			ermediate floo	,	dwelling		27.08	0.027	No	CD002			
Independently a			ves (insulatio		0		19.94	0.059	No	Knauf			
Table K1 - Defau					g level - invert	ed)	2.30	0.240	No				
Independently a	ssessed		ble (insulatio				13.48	0.081	No	Knauf			
Independently a	ssessed	E16 Co	rner (normal)				25.04	0.060	No	CBA-3	16		
Table K1 - Appro	oved		orner (inverted al area)	d – intern	al area greater	than	4.76	-0.090	No	ACD			
Y-value			0.044					W/m²K					
18.0 Pressure Test	ting		Yes										
Designed AP ₅₀	1		6.20					$m^3/(h.m^2)$	@ 50 Pa	а			
Property Teste	ed ?												
As Built AP ₅₀								$m^3/(h.m^2)$	@ 50 Pa	a			
19.0 Mechanical \	/entilation												
Summer Over	heating		_										
Windows	open in hot	weathe	er W	'indows	half open			\Box					
Cross vent	ilation poss	ible	Ye	es									
Night Vant	ما ما شاما ا		N.I.	-									



Night Ventilation

No



Air change	e rate	4.00				
Mechanical V	entilation					
Mechanical	Ventilation System Preser	t Yes				
Approved	Installation	No				
Mechanical Ventilation data Type		Database				
Type			extract ventila	tion -		
		decentralise				
MV Refere	ence Number	500426				
Duct Type		Flexible				
19.1 Mechanical	extract ventilation - Dec	centralised				
SFP	Fan/Room Count					
	Туре					
0.09	Through Wall 2 Fan Kitchen					
0.09	Through Wall 2					
	Fan Other Wet					
	Room					
0.11	In Room Fan 1 Other Wet					
	Room					
20 0 Fore Ones F	ironlaces Flues					
20.0 Fans, Open F	ireplaces, Flues	MHS	SHS	Other	Total	
Number of Ch	imneys	0	00	0	0	
Number of op	en flues	0		0	0	
	ermittent fans				1	
Number of pa					0	
Number of flu	eless gas lires				0	
21.0 Fixed Cooling	g System	No				
22.0 Lighting						
Internal						
Total num	ber of light fittings	12]	
Total num	ber of L.E.L. fittings	12			1	
Percentag	e of L.E.L. fittings	100.00			%	
External					-	
External li	ghts fitted	Yes]	
Light and	motion sensor	Yes				
23.0 Electricity Ta	riff	Standard]	
24.0 Main Heating		Database			1	
Description	g I] 1	
•	Heat	System]	
Percentage of		100] %	
Database Ref.	No.	17959]	
Fuel Type		Mains gas]	
Main Heating		BGW]	
SAP Code		104				
In Winter		90.2				
In Summe	r	87.3				
Controls		CBI Time and te	emperature zon	e control		
PCDF Controls	;	0]	
Delayed Start	Stat	No]	





Sap Code	2110	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heat Emitter	Radiators	
Flow Temperature	Normal (> 45°C)	
Combi boiler type	Standard Combi	
Combi keep hot type	None	
25.0 Main Heating 2	None	
Community Heating	None	

Community Heating	None
28.0 Water Heating	HWP From main heating 1
Water Heating	Main Heating 1
Flue Gas Heat Recovery System	No
Waste Water Heat Recovery Instantaneous System 1	No
Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
SAP Code	901
<u> </u>	

None

Recommendations

29.0 Hot Water Cylinder

Lower cost measures

None

Further measures to achieve even higher standards

Typical savings Ratings after improvement Typical Cost per year SAP rating **Environmental Impact** £4,000 - £6,000 Solar water heating £30 B 84 **Typical savings** Ratings after improvement **Typical Cost** per year **SAP** rating **Environmental Impact** Solar photovoltaic panels, 2.5 kWp £3,500 - £5,500 £366 A 93



ASSESSMENT NOTES

Calculation Type: New Build (As Designed)



Property Reference	e 18210 Plot 138	18210 Plot 138					
Assessment Reference	138	138 Prop Type Ref					
Property	135, Golf Road, MABLETH	HORPE, LN12					
SAP Rating		82 B	DER	19.22	TER	19.24	
Environmental	nvironmental 84 B % DER <ter 0.09<="" th=""><th></th></ter>						
CO₂ Emissions (t/y	ear)	1.70	DFEE	55.83	TFEE	60.22	
General Requirem	ents Compliance	Pass	% DFEE <tfee< th=""><th></th><th>7.28</th><th></th></tfee<>		7.28		
Assessor Details	Mr. Robert Atherton, Low Carobert@lowcarbonbox.co.uk		ted, Tel: 07540977	134, Assessor ID F291-0001			
Client							

ASSESSMENT NOTES - Last time updated on: 31.01.2021



THERMAL BRIDGING

Calculation Type: New Build (As Designed)



Property Reference	18210 Plot 138	18210 Plot 138				31/01/2021		
Assessment	138			Prop Type Ref	Ref Keighley h			
Reference								
Property	135, Golf Road, MABLETH	HORPE, LN12						
SAP Rating		82 B	DER	19.22	TER	19.24		
Environmental		84 B	% DER <ter< th=""><th></th><th colspan="3">0.09</th></ter<>		0.09			
CO ₂ Emissions (t/yea	ar)	1.70	DFEE	55.83	TFEE	60.22		
General Requiremen	nts Compliance	Pass	% DFEE <tfe< th=""><th>E</th><th>7.28</th><th></th></tfe<>	E	7.28			
	Assessor Details Mr. Robert Atherton, Low Carbon Box Limited, Tel: 07540977134, robert@lowcarbonbox.co.uk					F291-0001		
Client								

	Junction detail	Source Type	Psi (W/mK)	Length (m)	Result	Reference
External wall	E2 Other lintels (including other steel lintels)	Independently assessed	0.085	13.29	1.13	
External wall	E3 Sill	Independently assessed	0.034	9.77	0.33	CBA-314
External wall	E4 Jamb	Independently assessed	0.039	30.00	1.17	CBA-315
External wall	E5 Ground floor (normal)	Independently assessed	0.110	31.13	3.42	CD0022
External wall	E6 Intermediate floor within a dwelling	Independently assessed	0.027	27.08	0.73	CD0029
External wall	E10 Eaves (insulation at ceiling level)	Independently assessed	0.059	19.94	1.18	Knauf
External wall	E24 Eaves (insulation at ceiling level - inverted)	Table K1 - Default	0.240	2.30	0.55	
External wall	E12 Gable (insulation at ceiling level)	Independently assessed	0.081	13.48	1.09	Knauf
External wall	E16 Corner (normal)	Independently assessed	0.060	25.04	1.50	CBA-316
External wall	E17 Corner (inverted – internal area greater than external area)	Table K1 - Approved	-0.090	4.76	-0.43	ACD

Total: 10.68 W/mK: Y-Value: 0.044 W/m²K:

