



March 2023









U-Value Guidance Checklist

- All documentation must be property specific and have a fully verifiable address and postcode clearly displayed.
- Verification documents to confirm the Assessor's identity and competency, including their contact details.
- Evidence of suitable expertise and experience can be demonstrated by, but is not limited to, membership of a recognised U-Value calculation competency scheme or OCDEA1 or Level 4 non-domestic energy assessor membership, or any other process recognised by Accreditation Schemes/Approved Organisations and Government.
- U-Value calculations will be checked Calculations Vs Evidence



Park Home Guidance

Table S1: Age bands

	Years of construction								
Age band	England & Wales	Scotland	Northern Ireland	Park home (UK)					
A	before 1900	before 1919	before 1919	-					
В	1900-1929	1919-1929	1919-1929	-					
C	1930-1949	1930-1949	1930-1949	-					
D	1950-1966	1950-1964	1950-1973	-					
E	1967-1975	1965-1975	1974-1977	-					
F	1976-1982	1976-1983	1978-1985	before 1983					
G	1983-1990	1984-1991	1986-1991	1983-1995					
Н	1991-1995	1992-1998	1992-1999	(not applicable)					
I	1996-2002	1999-2002	2000-2006	1996-2005					
J	2003-2006	2003-2007	(not applicable)	(not applicable)					
K	2007-2011	2008-2011	2007-2013	2006 onwards					
L	2012 onwards	2012 onwards	2014 onwards	(not applicable)					

Table S3: Wall thickness (mm)

Age bar	nd A	В	С	D	E	F	G	Н	I,	J, K, L
Wall type										
Stone*	500	500	500	500	450	420	420	420	450	450
Solid brick	220	220	220	220	240	250	270	270	300	300
Cavity**	250	250	250	250	250	260	270	270	300	300
Timber frame	150	150	150	250	270	270	270	270	300	300
Cob	540	540	540	540	540	540	560	560	590	590
System build	250	250	250	250	250	300	300	300	300	300
Park home						50	50		7,5	100

Park homes can only be entered by 4 age brackets, as seen here in Table S1

These age bands have a significant impact on the EPC rating, For this reason, it is essential to provide accurate wall depths of the Park Home being assessed.

They will also impact on the recommendations generated within RdSAP. A Park Home with as-built insulation at 100mm wall depth is going to be entered as per table S3 age band 2006 onwards which would have been insulated to a high standard "as built" This will not generate a recommendation to insulate and will not have a significant impact on the EPC if it is insulated, due to U-Value being low, to begin with , as per Table S8A.

 Table S8A : Wall U-values — Park homes

 Age band
 F
 G
 I
 K

 Park home as built
 1.7
 1.2
 0.7
 0.6

 Park home with additional insulation
 Entered U-value (see S1.1.2)

Park Homes & U-Values

- "	1	\neg
Party walls	None – no party wall	╛
Wall thickness	Measured or default from Table S3	
Dry lining	Disallowed	
Wall insulation	As-built	7
	Unknown	\perp
	Internal (U-value entry only)	Т
	External (U-value entry only)	
Alternative walls	No alternative wall	
Floor	Ground	7
	Suspended timber only	
	U-value entry possible.	
Floor insulation	As built	1
	Unknown	÷
	Retro- fitted (U-value entry only)	╛
Glazing	Always much more than typical and measure all windows	
Heating and hot water	All options as normal	
Conservatory	Possible (one storey)	
Open fireplaces	Always none	
Ventilation	Always natural	

S1.1.1 Data for park homes

The following data items apply to a park home.

U-Values must be entered for Park Homes that have been retrofitted, if a U-Value isn't entered for a retrofitted park home, the recommendation to insulate may be suppressed, but the SAP score will remain the same.

To Enter U-Values for any property we must satisfy that convention 3.08 U-value entry (walls, roofs, floors) a U-value calculation produced or verified by a person with suitable expertise and experience.

 Evidence of suitable expertise and experience can be demonstrated by, but is not limited to, membership of a recognised U-value calculation competency scheme or OCDEA1 or Level 4 non-domestic energy assessor membership, or any other process recognised by Accreditation Schemes/Approved Organisations and Government.

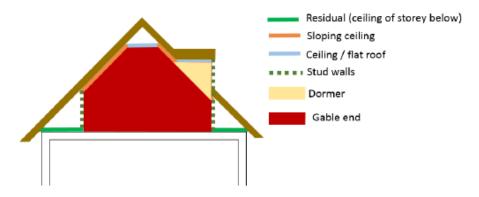
Also, See convention 9.02 Documentary evidence

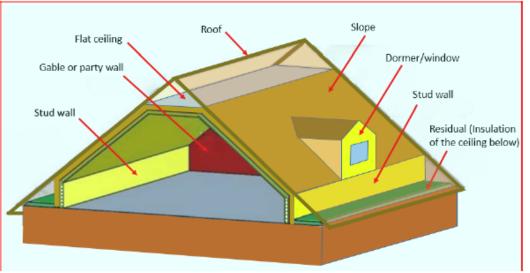
• Acceptable documentary evidence includes, but is not limited to, official correspondence from the applicable Registered Social Landlord (RSL) or certificates, warranties or guarantees or any documents verifying that work has been carried out. The assessor must be confident, and able to demonstrate, that any documentation relates to the actual property being assessed, and/or the work has been carried out, and that there is no physical or other documentary evidence to the contrary.



U-Values for Roof Rooms

Appendix 3. Illustration of the different parts of roof rooms when detailed measurements are made (convention 2.06)







U-Values for Roof Rooms

Appendix 4 of RdSAP Conventions

Appendix 4. Rooms in Roof - U-values applicable to room in roof insulation

The values should be used only in relation to Room in Roof when the "U-value" option is chosen in the extended data entry.

Insulation	Slope	u-value	Flat ceilin	g u-value	Stud wall u-value		
thickness at joists (mm)	Mineral wool or EPS slab	PUR or PIR	Mineral wool or EPS slab	PUR or PIR	Mineral wool or EPS slab	PUR or PIR	
none	If "no	one", use val	lues fron SA	P-2012 Ape	pndix S, Table	e S10	
12	1.91	1.23	1.18	1.04	1.79	0.71	
25	1.24	0.82	0.9	0.75	1.23	0.56	
50	0.77	0.52	0.62	0.51	0.78	0.41	
75	0.56	0.39	0.5	0.39	0.59	0.34	
100	0.45	0.31	0.41	0.32	0.48	0.29	
150	0.33	0.24	0.33	0.26	0.29	0.24	
200	0.23	0.16	0.23	0.16	0.21	0.16	
250	0.18	0.12	0.18	0.12	0.17	0.12	
270	0.16	0.11	0.17	0.11	0.16	0.11	
300	0.15	0.1	0.15	0.1	0.14	0.1	
350	0.13	0.08	0.13	0.09	0.12	0.08	
>400	0.11	0.07	0.11	0.07	0.11	0.07	

Key:

EPS – expanded polystyrene slab PUR – polyurethane rigid insulation

PIR - polyisocyanurate rigid foam

Assumptions used for calculating U-values:

Up to 150 mm, the insulation is between timber (rafters or studs) Timber fraction is 12%

After 150mm, the next layer of insulation is continuous 0.04 W/mK – thermal conductivity of mineral wool slab or EPS slab

0.025 W/mK - thermal conductivity of PUR or PIR slab

Notes:

- U-values from this table can be used for elements of rooms in roof only when the type of insulation and its thickness are known (evidence required)
- 2. Use the actual thickness of insulation (do not double insulation thickness if thermal conductivity is 0.025 W/mK)

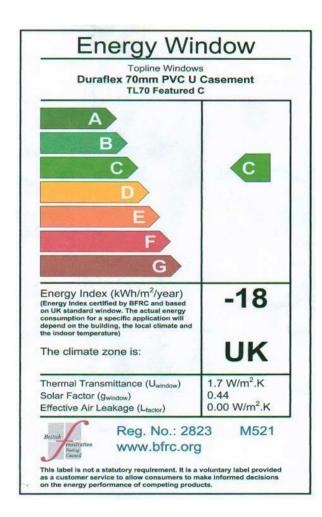


U-Values - Windows (U-values and g-values)

As with all other U-Value entries, window and door U-Values may only be overwritten if property-specific evidence is provided.

Convention 3.10 - Default U-values and g-values can be overwritten and known data specified only if documentary evidence is provided, which can be either a Window Energy Rating certificate (as defined by BFRC) or manufacturer's data.

The U-value is for the whole window, not the centre pane.







Relevant Conventions

#	Topic	Convention	Issue date
3.08	U-value entry (walls, roofs, floors) (see also 9.02)	The U-values of existing elements (walls/roofs/floors, etc.) must be the RdSAP default values (e.g. entered "as built") and must not be overwritten unless specific documentary evidence of the thermal conductivity of individual materials of the building element of the property being assessed is provided and was undertaken in accordance with BR 443 "Conventions for U-value calculations" (BRE, 2006). The U-value is that of the whole element, including any added insulation. Documentary evidence applicable to the property being assessed (see convention 9.02) must be provided and recorded if overwriting any default U-value. This evidence shall be either: - relevant building control approval, which both correctly defines the construction in question and states the calculated U-value; or - a U-value calculation produced or verified by a person with suitable expertise and experience. Evidence of suitable expertise and experience can be demonstrated by, but is not limited to, membership of a recognised U-value calculation competency scheme or OCDEA¹ or Level 4 non-domestic energy assessor membership, or any other process recognised by Accreditation Schemes/Approved Organisations and Government. Where it is known that only part of an element has been insulated use the afternative wall if possible for the insulated part, or use extensions.	January 2012 amended Aug 2014 amended April 2015 amended Aug 2016 amended 31 Dec 2017*
#	Topic	Convention	Issue date
9.02	Documentary evidence Applicable to England, Wales and Northern Ireland	Acceptable documentary evidence includes, but is not limited to, official correspondence from the applicable Registered Social Landlord (RSL) or certificates, warranties or guarantees or any documents verifying that work has been carried out. The assessor must be confident, and able to demonstrate, that any documentation relates to the actual property being assessed, and/or the work has been carried out, and that there is no physical or other documentary evidence to the contrary. Evidence of intent to install does not on its own qualify as acceptable documentary evidence. Evidence of intent to install, supported by evidence of subsequent Building Control oversight, or visual evidence that such an upgrade has been undertaken does qualify as acceptable documentary evidence. a) If it can be demonstrated that there was both an intention to upgrade the element (in planning documents for example) and Building Control oversight of the work, the element can be treated as having been upgraded as indicated in the planning documents. b) If it can only be demonstrated that either there was an intention to upgrade the element (in planning documents for example) or that there was Building Control oversight but it can also be seen that an upgrade has occurred, the element can be treated as upgraded using the minimum selectable upgrade of the relevant type defined in RdSAP. (If upgraded from 'as-built' to 'insulated' using the lowest selectable insulation thickness' that is better than the as-built assumption). *For roof insulation between joists use 100 mm as the lowest selectable insulation thickness.	March 2010 amended Aug 2014 amended Aug 2016 amended 01 June 2021
	Documentary evidence Applicable to SCOTLAND ONLY	Acceptable documentary evidence includes, but is not limited to, official correspondence from the applicable Registered Social Landlord (RSL) or certificates, warranties, guarantees. The assessor must be confident, and able to demonstrate, that any documentation relates to the actual property being assessed and that there is no physical evidence to the contrary. Evidence of intent to install does not qualify as acceptable documentary evidence.	



DEA Smart rules V1.6

DEA SMART rules V1.6 Implementation date is from 1st November 2022 New rules and changes are highlighted in blue

Priority No.	Rule No	Rule
1	31	Multiple lodgements on the same property by assessors from the same scheme within 12 calendar months where the SAP rating has dropped by two bands or more
2	1	No main heating system present, but mains gas supply available.
3	3	Heating controls of boiler energy manager
4	24	Overridden U-values for all building parts
5	27	Any occurrence of 2 or more EPC lodgements for the same address within a 3 calendar month period made by assessors from the same scheme.
6	30	Multiple lodgements by assessors on the same scheme on same property within 12 calendar months where SAP rating was A-D but is now E or lower.
7	29	Multiple lodgements by same assessor on same property within 12 calendar months where SAP rating was F or G but is now E or above.
8	28	Multiple lodgements on same property within 1 calendar month where SAP rating was E or lower and is now C or above by assessors from the same scheme
9	8	Mechanical ventilation present in property built prior to 2003 (including supply/extract)
10	15	Wall of any building part that has insulation type unknown
11	16	Floor of any building part that has insulation type unknown
12	25	Non-pitched roof of any building part has insulation type/thickness 'unknown'
13	26	Room in the roof of any building part that has insulation type unknown
14	22	Any floor of any building part room height is <1.5m or >4m
15	6	No heating controls present, but main heating system is a gas (incl. LPG) or oil boiler
16	2	Main building age band is L
17	21	Gas/Oil/LPG boiler main heating system and hot water from electric immersion
18	11	Age band A cavity walls



Recap Park Homes

- Wall Depths and age accuracy (Essential)
- U-Value calculations
- Competent & qualified person
- Calculation document addressed to the property, all (1/7) documents uploaded, name, contact details & authority to complete U-Value calculations within the document.
- Wall depths within calculation must be clear, accurate, and consistent with wall depths measured & evidenced pre/post-install. (RdSAP, U-Value
- Glazing in park homes can't be entered as typical and must be entered Much more than typical.

If in doubt, email support@ecmk.co.uk with the U-Value document provided and seek guidance before lodging.





Thank you

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