



RdSAP 9.92

RdSAP is being upgraded to the new calculation engine of RdSAP 9.92 on Sunday 7th December and there will be a number of changes to iQ-Energy to reflect this.

The guidance below shows the changes which are being made and how these will appear within iQ-Energy once the update is Live. The changes include a mix of the collection of new data within a survey, as well as amending existing entries.

If you have any queries with regards to the update please feel free to raise a ticket using our Support Log <http://support.guidos.co.uk> or phone us through 01225 326895

Classification

New Transaction Types are now available. There are now the options of RHI Application and ECO Assessment

iQ-ENERGY
QUIDOS IQ-ENERGY

06 October 2014, Monday

UPRN: 0138642468 / Energy Assessments / **Classification** / RRN: 8691-6464-3229-9806-0043 | Status: In progress

Classification

Tenure *	Owner-occupied
Transaction Type *	Choose...
Built Form *	Choose...
Detachment/Position *	Marketed Sale Non-Marketed Sale Assessment for Green Deal Following Green Deal FIT application RHI application ECO assessment
Welsh Language EPC	
Age Band	
Main Property *	None of the above
Extension 1	Not Applicable
Extension 2	Not Applicable
Extension 3	Not Applicable
Extension 4	Not Applicable

Age Band(Rooms in Roof)	
Main Property	Not Applicable
Extension 1	Not Applicable
Extension 2	Not Applicable
Extension 3	Not Applicable
Extension 4	Not Applicable

Calculate Energy Ratings
SAP Rating: 0
EI Rating: 0
CO2 Emissions: 0.00
Potential SAP Rating: 0
Potential EI Rating: 0



Age Band entries are amended to reflect the change in Building Regulations so that K is now 2007 – 2011 and L is 2012 onwards

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Classification

Tenure *	Owner-occupied
Transaction Type *	Choose...
Built Form *	Choose...
Detachment/Position *	Choose...
Welsh Language EPC	<input type="checkbox"/>

Age Band

Main Property *	Choose...
Extension 1	Choose...
Extension 2	A before 1900
Extension 3	B 1900-1929
Extension 4	C 1930-1949
	D 1950-1966
	E 1967-1975
	F 1976-1982
	G 1983-1990
	H 1991-1995
	I 1996-2002
	J 2003-2006
	K 2007-2011
	L 2012 onwards

Age Band(Rooms in Roof)

Main Property	
Extension 1	
Extension 2	
Extension 3	Not Applicable
Extension 4	Not Applicable

Calculate Energy Ratings
SAP Rating: 0
EI Rating: 0
CO2 Emissions: 0.00
Potential SAP Rating: 0
Potential EI Rating: 0
[Calculate](#) [Create EPC](#)

[Lodge Report](#) [Property Data](#) [Documents](#) [Copy](#) [Previous](#) [Next](#) [Save](#) [Close](#)



General

There is one small change to this page with an additional entry to Photovoltaics.

There is now a tick box to enter if PVs are connected to the property's electricity meter or not. A convention is being written for when this is not immediately obvious.

Photovoltaics	
Photovoltaic Unit	<input checked="" type="checkbox"/>
Detail of the PV 1	
kWp	<input type="text" value="4"/>
Pitch *	<input type="text" value="45°"/>
Orientation *	<input type="text" value="South"/>
Overshading *	<input type="text" value="Very little"/>
Detail of the PV 2	
kWp	<input type="text"/>
Pitch	<input type="text" value="Not Applicable"/>
Orientation	<input type="text" value="Not Applicable"/>
Overshading	<input type="text" value="Not Applicable"/>
Detail of the PV 3	
kWp	<input type="text"/>
Pitch	<input type="text" value="Not Applicable"/>
Orientation	<input type="text" value="Not Applicable"/>
Overshading	<input type="text" value="Not Applicable"/>
Percentage of External Roof Area with PVs	<input type="text" value="0"/>
PVs are connected to properties electricity meter	<input checked="" type="checkbox"/>



Walls

Sandstone entry is now shown as Sandstone or Limestone.

Internal/External Wall insulation can now be entered as 200mm.

Cavity Walls can now be selected as having Dry Lining.

Cavity Walls can be entered as being Filled or Unfilled as well as being As Built.

The screenshot shows the 'Walls' section of the iQ-ENERGY software. At the top left is the 'iQ-ENERGY' logo with 'QIDOS IQ-ENERGY' underneath. The top right shows the date '06 October 2014, Monday'. Below the logo, there is a breadcrumb trail: 'UPRN: 0138642468 / Energy Assessments / Walls'. To the right of this is the reference number 'RRN: 8691-6464-3229-9806-0043 | Status: In progress'. The main content area is titled 'Walls' and contains a 'Main Property' section with several fields: 'Construction *' (set to 'Cavity Wall'), 'Insulation *' (set to 'Unfilled cavity + internal'), 'Insulation Thickness(mm) *' (with a dropdown menu open showing options like 'Choose...', 'Unknown as built', 'Filled Cavity', 'Filled Cavity+internal', 'Filled Cavity+external', 'Unfilled cavity + internal', and 'Unfilled cavity + external'), 'Wall Thickness Measured?' (set to 'as built'), 'Wall Thickness(mm)', 'U-value Known?', 'U-value (W/m²K)', 'Dry-lining?' (set to 'unable to determine'), 'Party wall construction' (set to 'unable to determine'), and 'Alternative Wall Present?' (checkbox). To the right of this section is a 'Calculate Energy Ratings' box with a yellow background, showing 'SAP Rating: 0', 'EI Rating: 0', and 'CO2 Emissions: 0.00'. Below these are 'Potential SAP Rating: 0' and 'Potential EI Rating: 0', along with 'Calculate' and 'Create EPC' buttons. At the bottom of the form are buttons for 'Lodge Report', 'Property Data', 'Documents', 'Copy', 'Previous', 'Next', 'Save', and 'Close'.

Sheltered Walls can now be entered for any building part within Flats & Maisonettes, and so a Sheltered Wall can be entered for extensions as well as the Main Property if appropriate.



Party Wall

Party Wall Length now needs to be measured and entered for all floors of the dwelling.

Internal dimensions are measured from inner face to inner face. Cumulative room dimensions must include thickness of internal walls.

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06 October 2014, Monday

UPRN: 0138642468 / Energy Assessments / **Dimensions** / RRN: 8691-6464-3229-9806-0043 | Status: In progress

Dimensions

Dimension Type * internal

Main Property

Storey	Floor Area (m2)	Room Height (m)	Loss Perimeter (m)	Party Wall Length (m)
Heated Basement				
Ground	45.45	2.34	26.62	12.34
1st	45.45	2.34	26.62	12.34
2nd				
3rd				
4th				
5th				
6th				
7th and Other Floors				
Rooms in Roof	34.56			

Copy floor 1 to 2 **Copy**

Calculate Energy Ratings

SAP Rating: 0
EI Rating: 0
CO2 Emissions: 0.00
Potential SAP Rating: 0
Potential EI Rating: 0

Calculate **Create EPC**

Lodge Report **Property Data** **Documents** **Copy** **Previous** **Next** **Save** **Close**

Party Wall Construction is to be entered as long as the property is not Detached. There is the option of Unable to Determine if you are unable to view this or if there is conflicting evidence.

Dry-lining?

Party wall construction: unable to determine

Alternative Wall Present? **unable to determine**
Solid masonry, Timber frame, System build
Masonry cavity unfilled
Masonry cavity filled
Not applicable (detached property or no party wall)

The construction of a party wall is to be determined by viewing this within the roof space of the property. We will require a photo, when applicable, to show the party wall construction. Documentary evidence will be required to show that a Cavity party wall has been filled. Some examples of Party Walls are below

Cavity Party Wall



Solid Party Wall – this is solid blockwork



Solid Party Wall – Solid brick showing clear stretchers and headers.





Windows

One of the bigger changes is that for Double Glazed windows installed before 2002 or with Unknown installation date, the Glazing Gap is required to be entered. This is entered as either 6mm, 12mm or 16mm+. A different U Value is assumed for each glazing gap entered. We will only require photos of the glazing not an actual measurement.

If there is a mixture of glazing gaps, all windows will need to be measured and entered as Much More Than Typical Glazing.

Windows	
Area Type *	typical
Percent Multiple Glazed *	100
Multiple Glazing Type *	double glazed installed before 2002
PVC Window Frames	<input checked="" type="checkbox"/>
Glazing Gap	Choose...
U-value (W/m ² K)	Choose...
g-value	6mm
Data Source	12mm
	16mm+
	Not Applicable



Roofs

A new option of Pitched Roof with Sloping Ceiling is now available where the entry of Sloping Ceiling can be entered.

Further insulation depths are also available – 270mm, 200mm, 350mm and 400mm+.

A screenshot of a software interface titled 'Roofs'. Under the 'Main Property' section, there are four fields: 'Construction *' with a dropdown menu showing 'Pitched (Slates or Tiles), access to loft'; 'Insulation Type *' with a dropdown menu showing 'At Joists'; 'Insulation Thickness *' with a dropdown menu showing 'None'; and 'U-value Known?' and 'U-value (W/m²K)' with a list of options. The list includes 'None', '12mm', '25mm', '50mm', '75mm', '100mm', '150mm' (highlighted in blue), '200mm', '250mm', '270mm', '300mm', '350mm', '400mm+', and 'Unknown'.

Rooms in the Roof

There are some slight changes to the entries available for Rooms in the Roof so that All Elements entries are except Flat Ceiling. The Flat Ceiling depth can be entered separately as before.

A screenshot of a software interface titled 'Rooms in Roof'. Under the 'Main Property' section, there are four fields: 'Insulation Type *' with a dropdown menu showing 'Choose...'; 'Insulation Thickness of Flat Ceiling' with a dropdown menu showing 'Choose...', 'As built', 'Unknown', 'flat ceiling only', 'None', 'all elements (except Flat Ceiling) 50mm', 'all elements (except Flat Ceiling) 100mm', 'all elements (except Flat Ceiling) 150mm', and 'all elements insulation thickness unknown' (highlighted in blue); 'Roof Room Connected?'; and 'Edit Roof Room?'.



Main Heating System

Further Fuel Types are now available – Biogas and Biodiesel from vegetable oil only

High Heat Retention Storage Heaters are now available to be entered from the SAP 2012 Table.

Community Heating Systems can now be entered from a database, mark as Community Heating Networks

SAP 2012 Table 4a/4b

Heating Type *

Heating Description *

This search option will appear in a similar way as to selecting a boiler from the Product Characteristics Database and you will be able to search by address/post code. For these systems the network data is used for plant efficiency, distribution loss and pumping energy.

Heating Controls – there are now further options where heating controls can be chosen from a database. This is only available for wet heating systems.

Main Heating System Controls

Control Type *

(TTZC) by arrangement of plumbing and electrical services

The option to select if there is a Compensating Controller is available which will then give you the option to search for this within the database. These systems adjust the temperature of the heating system and are linked to the external temperature.



Compensating Controller

Select Product

MCS installation of heat pump – this can be ticked if there is documentary evidence of this.

Other

Flue Type	Not Applicable
Fan Assisted Flue	<input type="checkbox"/>
MCS installation of heat pump	<input checked="" type="checkbox"/>
Pump age	2013 or later
Flow temp of heat generator *	<= 35C
Heat Emitter Type *	Radiators
Electricity Meter Type *	Single
Mains Gas Available	<input checked="" type="checkbox"/>
Second Main Heating System Available	<input type="checkbox"/>

Pump Age – can be entered as Not Applicable, Unknown, 2012 or earlier or 2013 or later. This is to be entered for all wet central heating systems. Unknown is to be entered if the pump cannot be located.

Flow temperature of heat generator – Unknown, <= 35°C, <=45°C and > 35°C, over 45°C. – These entries are applicable to heat pumps and condensing boilers. The entry of Unknown is used unless documentary evidence is available giving the design flow temperature. The option of “<= 45°C and over 35°C” not available for heat pumps from SAP Tables.

Pump age	Not Applicable
Flow temp of heat generator *	Unknown
Heat Emitter Type *	Not Applicable
Electricity Meter Type *	Unknown
Mains Gas Available	<= 35C
Second Main Heating System Available	<= 45C and > 35C
	> 45C



Electricity Meter Type – A new option of Dual (18 hour) is now available

Electricity Meter Type *	Single
Mains Gas Available	Choose...
Second Main Heating System Available	Unknown
	Single
	Dual
	Dual (18 hour)
	Dual (24 hour)

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Solar Water Heating

Solar Water Heating Details	
Collector Data Source *	declared values
Collector Type *	flat panel
Collector Tilt *	30°
Collector Orientation *	South
Solar Pump *	unknown
Types of Shower in Property *	Non-electric shower only
Overshading *	Non-electric shower only
Aperture Area of Panel(m2) *	Electric shower only
Zero Loss Collector Efficiency *	Both electric and non-electric showers
Linear Heat Loss Coefficient *	No shower
2nd Order Heat Loss Coefficient *	4.0
Solar Store Details Known	0.01
Is Solar Store Combined	<input checked="" type="checkbox"/>
Total Hot Water Store Volume(Litres) *	<input checked="" type="checkbox"/>
Dedicated Solar Volume(Litres) *	120
	100

When entering that the Solar Water Heating Details are known, some further options are now available. The 2nd Order Heat Loss Coefficient can now be entered and documentary evidence is required for this.

If the Solar Water Heating Details are entered the Types of Shower are now required to be entered whether this is Non-electric showers only, electric shower only, both electric and non-electric or No Shower.

Waste Water Heat Recovery

There is now the option to enter Storage Waste Water Heat Recovery Systems as well as Instantaneous systems.



Park Homes

Assessors are now able to lodge reports on Park Homes and RdSAP has been updated to allow Park Homes to be entered correctly. To create a report on a Park Home choose Park Home as the Built Form

Tenure *	Owner-occupied
Transaction Type *	Marketed Sale
Built Form *	House
Detachment/Position *	Choose...
Welsh Language EPC	House
	Flat
	Bungalow
	Maisonette
	Park Home
Age Band	
Main Property *	L 1967-1975

For Park Homes only certain age bands are available – F – before 1983, G – 1983 – 1995, I – 1996 – 2005, K – 2006 onwards.

Age Band	
Main Property *	Choose...
Extension 1	Choose...
Extension 2	F before 1983
Extension 3	G 1983-1995
Extension 4	I 1996-2003
	K 2006 onwards
	Not Applicable



When entering a Park Home the wall type will be required to be entered as Park Home Wall, this will assume the below U Values.

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)			

The floor type for Park Homes can only be entered as Suspended Timber, all other floor types are not available.

Park Home roof types can only be entered as either pitched or flat roof.

The remainder of options are entered as per a usual dwelling.



Recommendations

A - Loft insulation – the recommendation is now to 270mm

A2 - Flat Roof insulation – is now applicable to Pitched roof with sloping ceilings with <100mm.

A3 - Roof room insulation – Is no longer applicable for thatched roof properties.

Q - Solid Wall Insulation – Is applicable for Park home walls.

W2 – Floor insulation (solid ground floor) – This new recommendation is applicable when the ground floor is entered as solid for properties age band <=J.

Z3 – Micro-CHP (Alternative Measure) – This alternative measure has now been amended to be applicable when Heating is by a system other than micro-CHP or community and mains gas is available.

L2 – New or Replacement Storage Heaters – The recommendation now is to improve to High heat retention storage heaters.

M – Replacement warm-air unit – This is now to be considered if the Main Heating is by mains gas warm air and this system is Non-Condensing **OR** Main heating by LPG warm air systems aged before 1998.

O3 – Glazing Replacement – This new recommendation is applicable if at least 80% of the Double glazing entered has PVC frames and a 12mm glazing gap installed before 2002 (England and Wales), 2003 (Scotland) or 2006 (Northern Ireland). This will recommend replacing double glazed units with new units with U value = 1.6 and g value = 0.74.

X – Insulated Doors – Are now applicable for Park Homes.

V2 – Wind Turbine – This is now to be considered for a house or bungalow with the Terrain Type entered as Rural. This will now recommend a wind turbine on mast, blade diameter 4.0m, hub height 10m above ridge.