



Lifespan RdSAP User Manual v9.94

WHAT IS LIFESPAN SAP?	4
GETTING STARTED WITH LIFESPAN RDSAP	4
PRE-REQUISITES	4
INSTALLATION	4
REGISTRATION	4
THE CONTROL PANEL	5
MY SURVEYS	5
MY ACCOUNT	5
LINKS	5
THE LIFESPAN SAP INTERFACE	6
LIFESPAN RDSAP INTERFACE – GENERAL OVERVIEW	6
THE SURVEY SUMMARY SCREEN	7
SECTION 1 – ADDRESS AND EXISTING EPC	8
SECTION 2 – ASSESSMENT DETAILS	9
SECTION 3 – CLASSIFICATION	10
SECTION 4 – GENERAL	11
SECTION 5 – FLATS AND MAISONNETTES	12
SECTION 6 – WALLS	13
SECTION 7 – DIMENSIONS	14
SECTION 8 – WINDOWS	15
SECTION 9 – DOORS AND DRAUGHT PROOFING	16
SECTION 10 – FLOORS	17
SECTION 11 – ROOFS	18
SECTION 12 – ROOF ROOMS	19
SECTION 13 – NON-SEPARATED CONSERVATORY	20
SECTION 14 – MAIN HEATING SYSTEM (1)	21
SECTION 15 – MAIN HEATING SYSTEM (2)	23
SECTION 16 – COMMUNITY HEATING SYSTEM	25
SECTION 17 – COMMUNITY HEAT NETWORK	26
SECTION 18 – SECONDARY HEATING SYSTEM	27
SECTION 19 – WATER HEATING SYSTEM	28
TAB A – WATER HEATING SYSTEM AND BATH/SHOWER DETAILS	28
TAB B – WASTE WATER HEAT RECOVERY SYSTEMS	29
SECTION 20 – ENERGY SAVING AND GENERATION	30
TAB A – SOLAR WATER HEATING	30
TAB B – PHOTOVOLTAIC UNITS	31
TAB C – MICRO WIND TURBINES	32
SECTION 21 – SPECIAL FEATURES	33
SECTION 22 – ADDENDA TO THE EPC	34

SECTION 23 – IMPROVEMENT MEASURES	35
TAB A – RECOMMENDED MEASURES	35
TAB B – ALTERNATIVE MEASURES	36
TAB C – POTENTIAL RATINGS AND SAVINGS	36
SECTION 24 – HARD TO TREAT CAVITY WALLS	37
SECTION 25 – PHOTOGRAPHS	38
LANDMARK FACILITIES	39
ADDRESS SEARCH FACILITIES	39
EPC LODGEMENT	40
ESSENTIAL READING	41
RECOMMENDED READING	41

WHAT IS LIFESPAN SAP?

The National Calculation Model (NCM) is the agreed calculation methodology and procedure used to implement Building Regulations Compliance along with Energy Performance Certificates in Domestic Buildings. The Standard Assessment Procedure (SAP) is the calculation specification, funded by the DCLG and developed by the BRE, used to implement the NCM. A 'Reduced' dataset has been developed to enable existing buildings to be assessed without intrusive surveying techniques. This 'Reduced' dataset has been named 'RdSAP, though in reality the dataset required is comparable to the 'full' SAP dataset. This calculation specification does not have a software implementation developed as part of the commission and commercial entities are permitted to develop their own calculations (though very restricted to the detailed specification) and graphical user interfaces. These are then approved by BRE on behalf of DCLG.

Lifespan RdSAP is the combined graphical user interface (GUI) and calculation engine developed by Lifespan to implement RdSAP. It provides an intuitive and step by step approach to the energy assessment process which aims to make the whole process more accessible, straight forward and less error prone whilst being easily affordable.

As Lifespan RdSAP implements a very stringent specification which is constrained by policy and legislation, this manual should be read in conjunction with the SAP Manual 2012 (specifically appendix S) along with the NCM modeling to fully understand the procedures and impact of each field. For the purpose of EPC generation the user should be full conversant with the relevant Domestic EPC conventions in force at the time of lodgment. Further details will be available from your accreditation scheme.

This manual will only cover the Lifespan RdSAP software interface and not the RdSAP calculation and methodologies, though reference to these maybe made throughout.

GETTING STARTED WITH LIFESPAN RDSAP

PRE-REQUISITES

Lifespan RdSAP is aimed at the Domestic Energy Performance Certificate assessor. It is therefore recommended that you have undertaken a training course to become an Energy Assessor prior to using Lifespan RdSAP in order to fully understand the calculation methodology and its requirements. There are many training courses available from commercial entities, many of whom will use Lifespan RdSAP within their training. We would suggest that if you have undertaken RdSAP software training using another software interface you will be more than ready to use Lifespan RdSAP. If you have not undertaken a training course you will still be able to use Lifespan RdSAP, however you may experience some difficulties and will not be able to lodge Energy Performance Certificates.

INSTALLATION

Lifespan RdSAP is entirely web based therefore there are no installation or project files to install or maintain. All files are kept within your account and can be downloaded any time you require. The software is compatible with any computer that is able to run a modern internet browser connected to the internet. The software will perform well on even the most basic PC, however if you currently experience internet performance issues these are likely to be reflected in the performance of the software.

REGISTRATION

In order to use the software you will need to register your details with us. In order to register, please visit http://www.lifespansap.com/members/DEA_Register.aspx or visit the relevant area of the parent website at www.lifespan-software.com.

The registration process will only take a minute and will give you the opportunity to provide your energy assessor details where available. These will be verified by us at a later point; however, it may be best to contact your scheme as we understand that some will issue you with a revised number for use with different software.

Once you have completed registration please visit <http://www.lifespansap.com/members/login.aspx> and use the username and password detailed during registration to log into the software. Once you have logged into the software you will be asked to add details of your Professional Indemnity Insurance cover. This is primarily for use when lodging Energy Performance Certificates therefore please ensure it is correct and matches the details held by your scheme if applicable. If you proceed to attempt lodgement in the future without correct details specified it is likely to cause issues and may lead to legal/ scheme conduct issues. If you are intending to use the software for training please specify dummy details, though please ensure these are revised if you expect to lodge in the future.

At this stage you will be able to access the RdSAP interface using the 'View energy surveys' link on your Control Panel, however some functionality will be restricted.

Before you will be able to successfully lodge Energy Performance Certificates and be granted full functionality, you will need to forward some details of your qualifications to our team.

THE CONTROL PANEL

The control panel is the area of the software where you are able to manage the administrative aspects of your account. It has 3 main sections, 'My Surveys', 'Your recent lodgements', 'My Account' and 'Links'.

MY SURVEYS

This contains links to access the interface software and related functionality.

'View energy surveys' opens up the interface software of the relevant version

'Export property list' exports a list of properties you have lodged through Lifespan RdSAP.

MY ACCOUNT

'Edit profile' allows you to edit your name, company details and email address. Please ensure these are kept up to date as they will be attributed to the surveys you produce and used by us to contact you.

'Account statement' details the financial transactions undertaken at lodgement etc.

'Insurance Policy' allows you to review and update the insurance details attributed to your account and surveys

'Add funds' allows you to credit your account prior to any transactions.

'Create Company Account' allows you to set up a company account to fund multiple assessor accounts

'Link to company account' allows you to link your account to an already existing company account.

LINKS

This area provides general support details and any other information that may change over time.

THE LIFESPAN SAP INTERFACE

Clicking on the 'View energy surveys' button of the 'My Surveys' area in your Control Panel will open the Lifespan SAP interface.

LIFESPAN RDSAP INTERFACE – GENERAL OVERVIEW

This page details some general principals in using the software that can be used throughout the data input process.

The pane on the left-hand side summarises the sections within Lifespan RdsAP that must be completed for each project. You may navigate by clicking on each section directly in the pane or by using the 'Next'/'Previous' buttons at the bottom of the page. Ideally you should work from beginning to end as fields that appear later in the assessment are dependent on earlier selections. The section you are currently in will be highlighted a different colour.

The 'Calculate Energy Ratings' button can be pressed at any time once the project is complete. This will overwrite any reports previously created and also reset the Recommendations Report to its default state (i.e. no user input). Data validation is run at this point to resolve any calculation issues.

The 'Next'/'Previous' buttons should be used as the preferred method of navigating the software. These will validate data on the screen for errors/omissions.

Once a project has been completed press the 'Save Draft EPC' button to create the lodgement files.

Pressing the 'Save Energy Data' button at any point will drop any reports previously created. This is to prevent any reports from reflecting the data inaccurately.

Areas on each page have been highlighted to draw your attention to changes from the previous version of Lifespan SAP. Green refers to additional fields, Blue refers to modified fields and Yellow refers to fields that have been relocated.

THE SURVEY SUMMARY SCREEN

The initial screen displays a summary of any surveys you have already undertaken along with providing access to relevant reports associated with them. It is also the area that grants access to other tools including integrated lodgement and report tools specific to Lifespan along with providing access to your projects and new projects.

Summary of your existing projects. To select an existing project, click on the UPRN. For each project the Property Address, Property description, Assessment Date, EI Rating, SAP rating, CO2 Emissions, Energy Use and Energy Cost is displayed.

The buttons at the top of the page are used to create a 'New' project, or 'Edit', 'Delete' or 'Copy' an existing project. Where you are seeking to manipulate an existing project, it must first be selected by clicking on the UPRN.

The software manual is available to download at all times.

The screenshot shows the Lifespan RdSAP Survey Summary Screen. At the top, there are navigation links for 'Energy Performance Reports', 'Related Websites', 'Help', 'Control Panel', 'Refresh', and 'Logout'. Below this is a 'New' button and a 'Show Lodged' checkbox. A table lists survey results with columns for UPRN, Property Address, Property Description, Date, EI Rating, SAP Rating, CO2 Emissions (tonnes/year), Energy Use (kWh/year), and Energy Cost (£/year). The table contains 14 rows of data. On the left, there is a 'Property Finder' section with filters for Type, Country, and Look In, and a 'Find' button. Below that is a 'RdSAP Standard Outputs' section with a list of report types. Callouts provide detailed explanations for these elements.

Useful information and links to return you to the 'Control Panel' are at the top of the page.

Check the 'Show lodged' box to display a list of lodged surveys.

RdSAP Assessment Outputs. This box contains a list of reports available for the selected property. Where a report is not available it is likely that the survey has not been calculated since its last edit. Only Draft EPCs are available in software interfaces, with unwatermarked EPCs only being available from the Central Government Register.

SECTION 1 – ADDRESS AND EXISTING EPC

On this page you are required to specify the address of the property by retrieving it from the Central Government Register (operated and maintained by Landmark). This will also retrieve the Unique Property Reference Number (UPRN). Where addresses do not appear on the register (or are not in acceptable format), they will need to be requested using the facilities provided.

There is also an opportunity to record a short description of the property. This will appear on the address summary screen and assist with identification of the survey using the properties attributes.

Any information in relation to existing EPCs should be recorded on this screen. If an EPC already exists at the property, a reason should be given as to why another is required.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017

EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

Calculate Energy Ratings Save Energy Data Save Draft EPC

< Previous Next > Close

1 Test Street, Test Town, EX14 2XF, ENGLAND

Address and Existing EPC

Find UPRN and Property Address

Property Address Details

UPRN: [E-RD-61]

Address 1: [1 Test Street]

Address 2: []

Town: [Test Town]

County: [Test County]

Postcode: [EX14 2XF]

Find Country and Region from Postcode

Regional Details

Country: [England]

Region: [South West England]

Existing EPC Details

You MUST confirm that you have checked for the existence of an EPC before carrying out this energy assessment:

Does an EPC exist at the point of carrying out this energy assessment:

If an EPC does exist, please select why another energy assessment needs to be undertaken: [Not Applicable]

Short Description of the Property (OPTIONAL)
Description (maximum of 512 characters): [House, Semi-Detached, 3 x Extensions, Main Heating (1) Electric Storage Heaters, DHW, From Secondary Heating System.]

Current Ratings	
SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-206.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676

Potential Ratings	
SAP Rating	A1437
EI Rating	A1883
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

New/ amended/ relocated fields:

- Regional Details have been relocated from section 3. Classification.
- A new section has been added to include Existing EPC Details.

Relevant conventions: 1.03

Common pitfalls: Ensure you/ your client is satisfied with address as once as it cannot be edited once lodged.

SECTION 2 – ASSESSMENT DETAILS

On this page you are required to detail administrative aspects of the survey including the assessment date and related party disclosure. Ensure that these are specified correctly as they will form part of the QA process.

The 'Site notes' field is available for you to detail any issues you may need to make a record of for QA purposes.

The fields marked 'For Social Housing use only' are to enter a reference to identify the property in a property database.

The screenshot displays the 'Assessment Details' section of the RdSAP software. The interface includes a navigation menu on the left, a main form area with various input fields, and a summary table on the bottom left. The 'Assessment Details' section includes fields for 'Assessment Date', 'Evidence of Competency', 'Related Party Disclosure', and 'Supporting Notes'. The summary table shows current and potential ratings for SAP, EI, CO2, Energy Cost, and Energy Use.

Current Ratings	
SAP Rating	A1416
EI Rating	A1359
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676
Potential Ratings	
SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914

New/ amended/ relocated fields:

- Welsh Language EPC Required has been relocated from section 3. Classification.

Relevant conventions: N/A

Common pitfalls: Failure to amend the 'Assessment date' to the date on which the survey was undertaken.

SECTION 3 – CLASSIFICATION

In this section you begin to specify overarching features of the property. Ensure that these are specified correctly as they will shape the rest of the information you are asked to enter later in the process. Amendments to this information later in the data input process will result in having to review the data entered after this point.

The screenshot displays the 'Classification' section of the RdSAP software. The top bar shows 'PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017' and 'EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019'. The address is '1 Test Street, Test Town, EX14 2XF, ENGLAND'. The 'Classification' section includes dropdown menus for Property Type (Marketed sale), Tenure (Owner-occupied), Dwelling Type (House), Detachment (Semi-Detached), and Number of Extensions (3). It also has sections for Age Band (of Building Parts) and Age Band (of Roof Rooms), each with Main Property and Extension (1-4) dropdowns. A sidebar on the left shows a table of ratings:

Current Ratings	
SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676
Potential Ratings	
SAP Rating	A1437
EI Rating	A1958
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914
New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

New/ amended/ relocated fields: N/A

Relevant conventions: 1.02, 2.08, 2.12, 3.05, 9.11, 9.12

Common pitfalls: Incorrectly identifying a converted/ renovated property using date of conversion/ renovation where no Documentary evidence has been recorded (convention 3.05).

SECTION 4 – GENERAL

On this screen you are required to provide further details of property. Some will dictate how the remainder of the data input is presented, some will start to make a direct contribution to the final SAP Rating. Though the information on this page appears to be straight forward it will have a large effect on the calculated rating and the nature of the remaining data input and there is large scope for misidentification for those unfamiliar with the RdSAP conventions.

The screenshot shows the '4. General' section of the RdSAP software. The interface includes a sidebar with a navigation menu, a main data entry area with dropdown menus and input fields, and a 'Current Ratings' table at the bottom left.

Current Ratings Table:

Category	Value
SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676
Potential Ratings	
SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914
New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

New/ amended/ relocated fields: N/A

Relevant conventions: 2.04, 2.05, 2.06, 2.10, 2.11, 2.17, 5.02, 7.01, 9.04

Common pitfalls: Misidentification of the number of habitable/ heated habitable rooms. Misidentification and proper recording of whether a conservatory is separated or not. Misidentification of Mechanical ventilation.

SECTION 5 – FLATS AND MAISONNETTES

This screen will be available if the 'Dwelling Type' selected on the 'Classification' page of the assessment has been detailed as either 'Flat' or 'Maisonette'. You must detail what the 'Heat loss corridor' type is (where present) and the 'storey level' and 'number of storeys in block' of the property being entered.

The screenshot shows the 'Flats and Maisonettes' section of the RdSAP software. The interface includes a navigation menu on the left with 25 numbered items, a main data entry area, and a summary table at the bottom. The main area contains the following fields:

- Heat Loss Corridor Type: No Corridor
- Length of Wall Between Flat and Corridor (m): 0
- Storey Level: 3
- Number of Storeys in Block: 3

The summary table at the bottom is organized into three sections: Current Ratings, Potential Ratings, and New/Modified/Relocated Data Inputs.

Current Ratings	
SAP Rating	
EI Rating	
CO ₂ (tonnes/year)	
Energy Cost (£/year)	
Energy Use (kWh/year)	

Potential Ratings	
SAP Rating	
EI Rating	
CO ₂ (tonnes/year)	
Energy Cost (£/year)	
Energy Use (kWh/year)	

New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

New/ amended/ relocated fields: N/A

Relevant conventions: 1.02, 2.03

Common pitfalls: Misidentification of heat loss corridor type. Misidentification of the storey level/ number of storeys in the block.

SECTION 6 – WALLS

The wall type for each building part will need to be defined in this section. Ensure that the data entered in this section is accurate as the information will appear on the EPC and have an influence over the recommendations that are presented.

PRODUCT DATABASE - Version 6, Revision 402, Date 16/09/2017

EXTERNAL DEFINITIONS - Revision 6.1, Date 11/06/2019

1 Test Street, Test Town, EX14 2XF, ENGLAND

6. Walls

a. Main Property | b. Extension (1) | c. Extension (2) | d. Extension (3)

a. Main Property - Wall Details

Main Wall Details

Construction Type: Stone (Granite or Whinstone)

Insulation Type: External

U-Value Known:

Insulation Thickness: 100mm

U-Value (W/m²K): 0.52

Insulation Evidence: Observed

U-Value Evidence: Not Applicable

Wall Thickness Known:

Wall Thickness (m): 0.608

Dry Lining/Lath and Plaster Present:

Party Wall Details

Construction Type: Unable to Determine

U-Value Known:

U-Value (W/m²K): 0.25

U-Value Evidence: Not Applicable

Alternative Wall Details

Construction Type: Not Applicable

Insulation Type: Not Applicable

U-Value Known:

Insulation Thickness: Not Applicable

U-Value (W/m²K): 0

Insulation Evidence: Not Applicable

U-Value Evidence: Not Applicable

Wall Thickness Known:

Wall Thickness (m): 0

Dry Lining/Lath and Plaster Present:

Sheltered Wall Present:

Area (m²): 0

NB: The alternative wall is sheltered only when it is between the dwelling and an unheated corridor or stairwell (flats and maisonettes only).

Current Ratings

SAP Rating	A1418
EI Rating	A1259
CO ₂ (tonnes/year)	-206.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676

Potential Ratings

SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914

Wall Data Inputs

Relocated Data Inputs

New/ amended/ relocated fields: N/A

Relevant conventions: 2.13, 3.01, 3.02, 3.03, 3.06, 3.07, 3.08, 3.14

Common pitfalls: Detailing internal/ party walls as heat loss walls. Failure to identify heat loss corridors as alternative walls where applicable. Failure to properly identify and record details of wall insulation.

SECTION 7 – DIMENSIONS

In the 'Dimensions' screen you are required to detail the 'Floor area', 'Room height', 'Exposed Perimeter' and the 'Party Wall Length' for each building part. Each of these details will contribute to the information that appears on the EPC. Whether the dimensions used have been taken Externally or Internally will need to be detailed and must be consistent across all building parts.

Only the floor area of roof rooms is required in this section, however further dimension information for roof rooms may be specified in the dedicated section 12.

'Ground floor' / '1st floor' should be read as 'lowest occupied floor' etc where detailing flats or properties with basements etc.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017

EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

1 Test Street, Test Town, EX14 2XF, ENGLAND

7. Dimensions

Dimension Type: External

Storey Level	Floor Area (m ²)	Room Height (m)	Exposed Perimeter (m)	Party Wall Length (m)
Ground Floor:	51	2.4	14	8.2
1st Floor:	35	2.35	17	8.2
2nd Floor:	0	0	0	0
3rd Floor:	0	0	0	0
4th Floor:	0	0	0	0
5th Floor:	0	0	0	0
6th Floor:	0	0	0	0
7th and Other Floors:	0	0	0	0
Roof Room:	5			

Current Ratings

SAP Rating: A1418

EI Rating: A1959

CO₂(tonnes/year): -206.7

Energy Cost (k/year): -£36,827

Energy Use (kWh/year): -1,167,676

Potential Ratings

SAP Rating: A1437

EI Rating: A1983

CO₂(tonnes/year): -208.4

Energy Cost (k/year): -£37,383

Energy Use (kWh/year): -1,180,914

New/ amended/ relocated fields: N/A

Relevant conventions: 2.01, 2.02, 2.03, 2.06, 2.08, 2.09, 2.10, 2.11, 2.18, 2.19, 2.20, 2.21, 2.23

Common pitfalls: Failure to include the heat loss corridor length (where present) in the relevant exposed perimeter.

SECTION 8 – WINDOWS

In this section you are required to detail information about the windows of the surveyed property, including the area of windows, the type of glazing installed and the type of frame construction.

If there are multiple glazing types, (or the area of the glazing in the property surveyed is Much Greater/ Less than typical) each combination of building part, orientation, glazing type, frame type, measured area and (where available) the U/ g value should be recorded.

Current Ratings

SAP Rating	A1418
EI Rating	A1969
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676

Potential Ratings

SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914

No.	Building Part	Roof Window	Orientation	Values Known	Glazing Type	PVC Frame Present	Air Gap	Area (m ²)	U-value	g-value	Data Source
1			Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
2	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
3	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
4	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
5	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
6	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
7	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
8	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
9	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
10	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
11	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable
12	Not Applicable		Not Applicable		Not Applicable		Not Applicable	0	0	0	Not Applicable

New/ amended/ relocated fields: N/A

Relevant conventions: 2.14, 2.15, 2.16, 2.17, 3.10, 3.12,

Common pitfalls: Failure to gather information evidencing window age/ type. Failure to detail different window types using 'More than one type of glazing has been installed' facility.

SECTION 9 – DOORS AND DRAUGHT PROOFING

This section requires you to record the percentage of windows and doors draught proofed, number of External Doors and number of Insulated External Doors, including their U-value where available. The number of Insulated External Doors is always less than the number of External Doors.

The screenshot displays the RdSAP software interface for '9. Doors and Draught Proofing'. The top bar shows 'PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017' and 'EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019'. The main area is titled '9. Doors and Draught Proofing' and includes the following fields:

- Draught Proofing**
 - Percentage of Windows and Doors Draught Proofed: 50%
- External Doors**
 - Number of External Doors: 2
 - Average U-Value of Uninsulated External Doors: 5
- Insulated External Doors**
 - Number of Insulated External Doors: 0
 - Average U-Value of Insulated External Doors: 0
 - Insulation Evidence: Not Applicable

The sidebar on the left contains a table of contents with the following items:

1. Address and Existing EPC
2. Assessment Details
3. Classification
4. General
5. Flats and Maisonettes
6. Walls
7. Dimensions
8. Windows
9. Doors and Draught Proofing
10. Floors
11. Roofs
12. Roof Rooms
13. Non-Separated Conservatory
14. Main Heating System (1)
15. Main Heating System (2)
16. Community Heating System
17. Community Heat Network
18. Secondary Heating System
19. Water Heating System
20. Energy Saving and Generation
21. Special Features
22. Addenda to the EPC
23. Improvement Measures
24. Hard-to-Treat Cavity Walls
25. Photographs
Current Ratings
SAP Rating
EI Rating
CO ₂ (tonnes/year)
Energy Cost (£/year)
Energy Use (kWh/year)
Potential Ratings
SAP Rating
EI Rating
CO ₂ (tonnes/year)
Energy Cost (£/year)
Energy Use (kWh/year)
New Data Inputs
Modified Data Inputs
Relocated Data Inputs

New/ amended/ relocated fields: N/A

Relevant conventions: 3.09, 3.11

Common pitfalls: Failure to correctly differentiate between a door and window in accordance with RdSAP convention 2.14. Failure to record double doors as 2 doors. Failure to properly record evidence of insulated doors.

SECTION 10 – FLOORS

For each building part ('Main Property'/ 'Extension' etc), the 'Floor type' 'Construction type', and 'Insulation type' will need to be specified. Lifespan SAP will change options available depending on the 'Property Type' selected in Section 3 (Classification) of the data input process.

If retrofitted insulation has been identified either the thickness of the insulation or the specific U-value must be recorded.

Where an upper floor has been detailed as having a larger floor than a lower floor in Section 7 (Dimensions) then details of the ensuing 'Overhanging' section of the upper floor must be detailed in the enabled section of the page.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017

EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

Calculate Energy Ratings Save Energy Data Save Draft EPC

< Previous Next >

Close

1 Test Street, Test Town, EX14 2XF, ENGLAND

10. Floors

a. Main Property b. Extension (1) c. Extension (2) d. Extension (3)

a. Main Property - Floor Details

Ground Floor

Floor Type : Ground Floor

Construction Type : Unknown

Insulation Type : Unknown

U-Value Known :

Insulation Thickness : Not Applicable

U-Value : 0.57

Insulation Evidence : Not Applicable

U-Value Evidence : Not Applicable

Overhanging Floor

Floor Level : 0

Floor Type : Not Applicable

Insulation Type : Not Applicable

U-Value Known :

U-Value : 0

Insulation Evidence : Not Applicable

U-Value Evidence : Not Applicable

Current Ratings

SAP Rating

EI Rating

CO₂(tonnes/year)

Energy Cost (£/year)

Energy Use (kWh/year)

Potential Ratings

SAP Rating

EI Rating

CO₂(tonnes/year)

Energy Cost (£/year)

Energy Use (kWh/year)

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

New/ amended/ relocated fields: N/A

Relevant conventions: 2.11, 3.07

Common pitfalls: Ensure that 'Same dwelling below' is not confused with 'Another dwelling below'. 'Same dwelling below' should only be specified where the building part in question is connected via the floor to another building part of the same dwelling. Failure to identify 'Above partially heated space' as the floor type when above a commercial property.

SECTION 11 – ROOFS

In a similar vein to the 'Floors' section, in the 'Roofs' section the options available in each field will change according to the 'Property type' selected in Section 3 (Classification). For each building part the 'Construction type', 'Insulation type' and 'Insulation thickness' must be recorded. 'Insulation evidence' must be recorded for QA purposes. Where known U-values are detailed the evidence must be recorded as 'Documentary' in line with QA requirements.

This information will have significant bearing on the EPC rating and contribute to Recommendations put forward therefore its accuracy is vital.

The screenshot displays the RdSAP software interface for Section 11: Roofs. The top bar includes the 'Life 360 RdSAP' logo, version information (Version 6, Revision 402, Date 16/09/2017), and external definitions (Revision 6.1, Date 11/06/2019). Navigation buttons for 'Calculate Energy Ratings', 'Save Energy Data', 'Save Draft EPC', '< Previous', 'Next >', and 'Close' are visible. The address is '1 Test Street, Test Town, EX14 2XF, ENGLAND'. The left sidebar lists 25 assessment categories, with '11. Roofs' selected. The main content area shows the 'Roof Details' form with the following fields: Construction Type (Pitched (Slates or Tiles)), Access to Loft (checked), Insulation Type (Between Joists), U-Value Known (checked), Insulation Thickness (150mm), Additional Insulation Present (checked), Insulation Evidence (Observed), U-Value (0.3), and U-Value Evidence (Not Applicable). The bottom section contains 'Current Ratings' (SAP, EI, CO2, Energy Cost, Energy Use), 'Potential Ratings' (SAP, EI, CO2, Energy Cost, Energy Use), and 'New Data Inputs', 'Modified Data Inputs', and 'Relocated Data Inputs' sections.

New/ amended/ relocated fields: N/A

Relevant conventions: 3.04, 3.07, 3.08

Common pitfalls: Ensure that 'Access to loft' is checked if relevant. Failure to check this box will result in Recommendations being suppressed on the EPC and a resultant QA failure at audit. Failure to capture evidence of lack of access where present.

SECTION 12 – ROOF ROOMS

Where 'Roof Rooms' are present in the property being surveyed (as specified in Section 3 - Classification), the type and location of insulation present must be recorded for each building type. Page 23 of RdSAP conventions v7.0 clarifies the location of each element of the roof room. Where U-values are known the location and area of each element must be recorded against the U-value recorded.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

12. Roof Rooms 1 Test Street, Test Town, EX14 2XF, ENGLAND

a. Main Property

a. Main Property - Roof Room Details

Insulation Type :
 Ceiling Insulation Thickness (Not Applicable for Vaulted Ceiling) :
 Walls and Sloping Part Insulation Thickness :
 Roof room is connected to another part of the dwelling :
 Insulation Evidence :
 Areas and U-values Known : U-Value Evidence :

Element Name	Area (m ²)	U-value
Flat Ceiling (1)	<input type="text" value="5"/>	<input type="text" value="0.12"/>
Flat Ceiling (2)	<input type="text" value="0"/>	<input type="text" value="0"/>
Sloping Roof (1)	<input type="text" value="5.27"/>	<input type="text" value="0.68"/>
Sloping Roof (2)	<input type="text" value="0"/>	<input type="text" value="0"/>
Stud Wall (1)	<input type="text" value="5.27"/>	<input type="text" value="0.68"/>
Stud Wall (2)	<input type="text" value="0"/>	<input type="text" value="0"/>
Gable Wall (1)	<input type="text" value="4.522370"/>	<input type="text" value="0.68"/>
Gable Wall (2)	<input type="text" value="0"/>	<input type="text" value="0"/>

Current Ratings
 SAP Rating :
 EI Rating :
 CO₂(tonnes/year) :
 Energy Cost (£/year) :
 Energy Use (kWh/year) :
Potential Ratings
 SAP Rating :
 EI Rating :
 CO₂(tonnes/year) :
 Energy Cost (£/year) :
 Energy Use (kWh/year) :
New Data Inputs
Modified Data Inputs
Relocated Data Inputs

New/ amended/ relocated fields: N/A

Relevant conventions: 2.06, 2.07, 2.08, 2.11, 3.07

Common pitfalls: Identifying a building part as a roof room where it should be assessed as a floor in its own right.

SECTION 13 – NON-SEPARATED CONSERVATORY

Where a conservatory has been detailed as 'Not Separated' in the 'Conservatory type' field of Section 4 – General, the 'Non-Separated Conservatory' section is enabled.

Here you are required to detail the 'Floor area', 'Glazed perimeter' (heat loss perimeter) and height in half storeys of the Conservatory. You are also required to detail whether the conservatory is double glazed or not.

The screenshot displays the '13. Non-Separated Conservatory' section of the RdSAP software. The interface includes a sidebar with a table of contents, a main input area for conservatory details, and a bottom section for ratings and data inputs.

Table of Contents (Left Sidebar):

1. Address and Existing EPC
2. Assessment Details
3. Classification
4. General
5. Flats and Maisonettes
6. Walls
7. Dimensions
8. Windows
9. Doors and Draught Proofing
10. Floors
11. Roofs
12. Roof Rooms
13. Non-Separated Conservatory
14. Main Heating System (1)
15. Main Heating System (2)
16. Community Heating System
17. Community Heat Network
18. Secondary Heating System
19. Water Heating System
20. Energy Saving and Generation
21. Special Features
22. Addenda to the EPC
23. Improvement Measures
24. Hard-to-Treat Cavity Walls
25. Photographs
Current Ratings
SAP Rating
EI Rating
CO ₂ (tonnes/year)
Energy Cost (£/year)
Energy Use (kWh/year)
Potential Ratings
SAP Rating
EI Rating
CO ₂ (tonnes/year)
Energy Cost (£/year)
Energy Use (kWh/year)
New Data Inputs
Modified Data Inputs
Relocated Data Inputs

Main Input Area (Right):

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

Buttons: Calculate Energy Ratings, Save Energy Data, Save Draft EPC, < Previous, Next >, Close

Address: 1 Test Street, Test Town, EX14 2XF, ENGLAND

13. Non-Separated Conservatory

Floor Area (m²): 0
Glazed Perimeter (m): 0
Height (number of half storeys of main dwelling): [Dropdown]
Double Glazed:

Conservatory Walls

U-value: 4.0
g-value: 0.85

Conservatory Roof

U-value: 5.3
g-value: 0.85

New/ amended/ relocated fields: N/A

Relevant conventions: 2.04, 2.17, 3.11,

Common pitfalls: Failure to properly identify non-separated conservatory. Failure to properly evidence no separation of Conservatory and Property. Failure to adjust heat loss perimeter recorded in Section 7 – Dimensions where Non-Separated conservatory is present. Failure to record non-separated conservatory as a habitable room.

SECTION 14 – MAIN HEATING SYSTEM (1)

The heating section is one of the key pieces of data in the RdSAP dataset and will have a large impact on the resulting SAP rating and associated Improvement Measures therefore correct specification is important. Before completing this section please ensure the correct heating system is identified for each of the Main (1), Main (2) and Secondary areas of the data input. Guidance on selection is available in Appendix A of the SAP 2012 9.92 manual with Section A2 of this appendix detailing the procedure for identifying main and secondary systems. You should be mindful that the SAP manual refers primarily to the full SAP calculation, however the principals in this section are true for both RdSAP and full SAP. Full details of how to interpret the SAP manual in the context of RdSAP can be found in appendix S of the SAP manual.

The Main Heating System pages change dynamically according to the system selected and these changes can be quite significant. In this instance we have specified a typical Room heater system for Main Heating System (1). Details for Boiler systems will follow in the next section.

Where a heating source of 'Individual heating system' has been selected, all fuels that are used for boiler and room heater systems will be available.

Where 'Electricity' is selected as the heating fuel there is a choice of selecting to identify the Efficiency source from the SAP efficiency tables or, where relevant, a 'Heat Pump' or a new 'Storage Heater' database. At time of writing, no storage heater systems had been uploaded to the central database therefore the SAP tables should continue to be used for this.

For room heaters specified using the SAP tables the 'Heating Type' and 'Heating description' must be used to infer the heating efficiency. To modify how well the heating system responds to changes in temperature the 'Control Type' must also be specified. Further to this the 'Electricity meter type', Gas availability and 'Number of Open Fireplaces' must be specified. These 'Related details' are important in both defining the SAP rating (Open Fireplaces) and in deciding appropriate recommendations.

The screenshot displays the RdSAP software interface for configuring the Main Heating System (1). The interface includes a sidebar with a navigation menu, a top navigation bar with buttons for 'Calculate Energy Ratings', 'Save Energy Data', and 'Save Draft EPC', and a main content area with several sections:

- 14. Main Heating System (1)**: The main heading for the configuration page.
- a. Main Heating System**: The sub-heading for the current system.
- Main Heating Type**:
 - Heating Source: Individual heating system
 - Heating Fuel: Electricity
 - Efficiency Source: SAP 2012 Table 4b
- SAP 2012 Table 4b**:
 - Heating Type: Storage heaters, off-peak
 - Heating Description: Integrated storage plus direct acting heater
 - Heating Efficiency (%): 100
- Main Heating System Controls**:
 - Control Type: Manual charge control
- Related Details**:
 - Electricity Meter Type: Dual
 - Mains Gas Available:
 - Number of Open Fireplaces: 1

New/ amended/ relocated fields: N/A

Relevant conventions: 4.01, 4.02, 4.03, 4.04, 4.05, 4.06, 4.09, 4.10, 4.11, 4.12, 5.02

Common pitfalls: Failure to correctly identify/ specify a back-boiler system as both a main and secondary system (where relevant). Failure to correctly identify between Main and secondary heating systems. Identifying portable heaters as part of the heating system.

SECTION 15 – MAIN HEATING SYSTEM (2)

The previous section (Main Heating System (1)) covered information relating to room heaters, with this section being used to demonstrate boiler systems. This is simply to demonstrate the functionality of the page and in reality, a boiler system is likely to be used as Main Heating system (1).

Specific guidance on when a 'Main heating system (2)' should be specified can be found in Appendix A of the SAP Manual, however a typical example of when a 2nd main system should be specified is when a building has been significantly extended (multiple rooms) and an additional (usually similar) system has been installed to serve this additional area.

When specifying a central distribution system the preferred method is via the 'Product databases'. At the time of writing the 'Gas and Oil boiler', 'Gas and Oil range cooker' and 'Electric Heat Pumps' have a substantial number of entries, with those for 'Electric Storage Heaters', 'Micro-Cogeneration' and 'Gas and warm-air systems' have few or no entries. If the precise entry for the system identified in the property is not available in a Product Database, you will need to infer the system type and efficiency using the 'SAP 2012' heating tables selection from the 'Efficiency Source' table.

Once you have identified the heating system using the entries available in the 'Main heating type' and 'Product database' / 'SAP 2012' tables you must select the 'Heating system controls'. These will change to be relevant to the heating system selected and will influence the SAP rating and Improvement Measures eligible for the property.

A new field for v9.92 of the software is the ability to add 'Weather/ Load compensation controls'. These are system specific and are only available for systems designed to accept them. Where present the 'Brand name', 'Model name', Model qualifier' and device functionality must be detailed.

For fuel heaters that have not been identified using a Product Database, the 'Flue type' must be selected.

Once the 'Heat emitter type' has been selected, the additional fields of 'Central heating pump age' and 'Design flow temperature' should be specified where known.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

Calculate Energy Ratings Save Energy Data Save Draft EPC < Previous Next > Close

1 Test Street, Test Town, EX14 2XF, ENGLAND

15. Main Heating System (2)

a. Main Heating System b. Flue Gas Heat Recovery System

Main Heating Type

Heating Source : Individual heating system
 Heating Fuel : Gas
 Efficiency Source : Product Database (Gas and Oil Boilers)

Product Database (Gas and Oil Boilers)
PRODUCT STATUS : NORMAL (This product can be used for RdSAP Assessments.)

Brand Name : Vaillant
 Model Name : Ecotec Pro
 Model Qualifier : 28
 Heat Source Description : Combi Boiler (No Store), Condensing, Automatic Ignition, Wall Mounted, Variable (Stepped or Modulating) Burner Control, Gas/Oil Fuel Keep-Hot Facility (Timed)

Heating Efficiency (%) : 89.7
 View Product Details

2nd Main Heating System Details

2nd System Supplies Domestic Hot Water Only :
 Percentage of Heated Floor Area Served by 2nd System : 30

Main Heating System Controls

Control Type : Programmer, room thermostat and TRVs

Weather/Load Compensation Control

Device Present :
 Brand Name : Not Applicable
 Model Name : Not Applicable
 Model Qualifier : Not Applicable
 Device Functionality : Not Applicable
 View Product Details

Other Main Heating Details

Flue Type : Room Sealed
 Fan Assisted Flue Present :
 Heat Emmitter Type :
 Central Heating Pump Age :
 Heat Pump - MCS Installation Certificate Present :
 Design Flow Temperature of Heat Generator :

New/ amended/ relocated fields: N/A

Relevant conventions: 4.01, 4.02, 4.03, 4.04, 4.05, 4.06, 4.09, 4.10, 4.11, 4.12, 5.02

Common pitfalls: Incorrectly specifying a 'Main Heating system (2)' instead of a 'Secondary heating system'. Failure to properly identify the 'Percentage of Heated Floor Area Served by 2nd System'. Incorrect identification of the boiler. Where the boiler is identified from the product database a small change in description can result in a significant change in its functionality or efficiency. A description of the boiler selected is now included to mitigate against this, however the boiler must be properly identified on site.

SECTION 16 – COMMUNITY HEATING SYSTEM

Where a 'Community Scheme' has been specified as the 'Heating Source' of 'Main Heating System (1)', the 'Community Heating system' section is enabled. Information already specified is sufficient to complete the RdSAP calculation in all cases except when 'Community Scheme – CHP' has been selected. In this case the fuel will need to be selected and the values RdSAP will use for Heating and Electrical efficiency along with the Fraction of Heat from CHP will be displayed.

The screenshot shows the RdSAP software interface. The top bar displays 'PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017' and 'EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019'. The main content area is titled '16. Community Heating System' and contains the following fields:

- Community Schemes - CHP**
 - CHP Fuel: Not Applicable
 - Heat Efficiency of CHP Unit: 0
 - Electrical Efficiency of CHP Unit: 0
 - Fraction of Heat from CHP Unit: 0
- Community Schemes - All**
 - Heat Distribution System: Pre-insulated mains piping system installed in 1990 or earlier, low temperature distribution (100C or 1)

The sidebar on the left contains a table of contents with the following items:

1. Address and Existing EPC
2. Assessment Details
3. Classification
4. General
5. Flats and Maisonettes
6. Walls
7. Dimensions
8. Windows
9. Doors and Draught Proofing
10. Floors
11. Roofs
12. Roof Rooms
13. Non-Separated Conservatory
14. Main Heating System (1)
15. Main Heating System (2)
16. Community Heating System
17. Community Heat Network
18. Secondary Heating System
19. Water Heating System
20. Energy Saving and Generation
21. Special Features
22. Addenda to the EPC
23. Improvement Measures
24. Hard-to-Treat Cavity Walls
25. Photographs
Current Ratings
SAP Rating
EI Rating
CO ₂ (tonnes/year)
Energy Cost (£/year)
Energy Use (kWh/year)
Potential Ratings
SAP Rating
EI Rating
CO ₂ (tonnes/year)
Energy Cost (£/year)
Energy Use (kWh/year)
New Data Inputs
Modified Data Inputs
Relocated Data Inputs

New/ amended/ relocated fields: N/A

Relevant conventions: 4.05, 4.06

Common pitfalls: N/A

SECTION 17 – COMMUNITY HEAT NETWORK

As the database for existing 'Community Heat Networks' increases, the information will become available within this section. Once a Network Name is selected from the list, all fields are pre-populated with details of the network provided by the database.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

1 Test Street, Test Town, EX14 2XF, ENGLAND

LifeSight RISAP

1. Address and Existing EPC
2. Assessment Details
3. Classification
4. General
5. Flats and Maisonettes
6. Walls
7. Dimensions
8. Windows
9. Doors and Draught Proofing
10. Floors
11. Roofs
12. Roof Rooms
13. Non-Separated Conservatory
14. Main Heating System (1)
15. Main Heating System (2)
16. Community Heating System
- 17. Community Heat Network**
18. Secondary Heating System
19. Water Heating System
20. Energy Saving and Generation
21. Special Features
22. Addenda to the EPC
23. Improvement Measures
24. Hard-to-Treat Cavity Walls
25. Photographs

Current Ratings

SAP Rating:

EI Rating:

CO₂(tonnes/year):

Energy Cost (£/year):

Energy Use (kWh/year):

Potential Ratings

SAP Rating:

EI Rating:

CO₂(tonnes/year):

Energy Cost (£/year):

Energy Use (kWh/year):

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

17. Community Heat Network

Community Heat Network

Network Name:

Version Number:

Description of the Network:

Service Provision:

Estimated or Actual Data:

Distribution Loss Factor:

Pumping Electrical Energy (per dwelling):

Total Number of Heat Sources:

Community Scheme Location

Locality:

Town:

Administrative Area:

Postcode of the Primary Energy Centre:

Number of Dwellings in the Community Scheme

Number of Dwellings (including Not Yet Constructed):

Number of Flats (including Not Yet Constructed):

Number of Existing Dwellings:

Heat Source (1)

Heat Source Type:

Fuel Type:

CO₂Emissions Factor:

Primary Energy Factor:

Heat Efficiency (%):

Fraction of Heat:

CHP Electrical Efficiency (%):

Heat Source (2)

Heat Source Type:

Fuel Type:

CO₂Emissions Factor:

Primary Energy Factor:

Heat Efficiency (%):

Fraction of Heat:

Heat Source (3)

Heat Source Type:

Fuel Type:

CO₂Emissions Factor:

Primary Energy Factor:

Heat Efficiency (%):

Fraction of Heat:

Heat Source (4)

Heat Source Type:

Fuel Type:

CO₂Emissions Factor:

Primary Energy Factor:

Heat Efficiency (%):

Fraction of Heat:

Heat Source (5)

Heat Source Type:

Fuel Type:

CO₂Emissions Factor:

Primary Energy Factor:

Heat Efficiency (%):

Fraction of Heat:

New/ amended/ relocated fields: N/A

Relevant conventions: N/A

Common pitfalls: N/A

SECTION 18 – SECONDARY HEATING SYSTEM

Where the property has a 'Secondary Heating System' present the 'Heating fuel' and 'Heating type' should be specified in this section.

Procedures for identifying main and secondary heating systems can be found in Appendix A of the SAP 2012 manual.

The screenshot shows the SAP 2012 software interface. The top bar displays 'PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017' and 'EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019'. The main navigation menu on the left lists 25 sections, with '18. Secondary Heating System' highlighted. The main content area is titled '18. Secondary Heating System' and shows the following fields:

Secondary Heating System	
Heating Fuel :	House coal
Heating Type :	Closed room heater

Below the main content area, there are sections for 'Current Ratings', 'Potential Ratings', 'New Data Inputs', 'Modified Data Inputs', and 'Relocated Data Inputs', each with a table of metrics such as SAP Rating, EI Rating, CO₂(tonnes/year), Energy Cost (£/year), and Energy Use (kWh/year).

New/ amended/ relocated fields: N/A

Relevant conventions: 4.09, 5.01, 5.03

Common pitfalls: Misidentification of secondary heating. Failure to properly retain evidence of secondary heating.

SECTION 19 – WATER HEATING SYSTEM

There are 2 tabs to this section. Tab A – Water Heating System and Bath/Shower Details and Tab B – Waste Water Heat Recovery Systems.

TAB A – WATER HEATING SYSTEM AND BATH/SHOWER DETAILS

The Heating Type field will change to include options relating to the Main Heating systems specified in Sections 14 and 15 as well as including standalone options.

Where the 'Heating type' selected has a Hot Water Cylinder this must be detailed in the 'Hot Water Cylinder' section with the 'Volume' (including solar part where relevant), 'Insulation Type', 'Insulation Thickness' and whether a 'Thermostat' is present must be detailed.

To establish whether a system would be suitable you are required to gather the 'Number of Rooms with Bath and/or Shower', the 'Number of Rooms with Mixer Shower and No Bath' and the 'Number of Rooms with Mixer Shower and Bath'. Neither of the latter answers should exceed the 'Number of Rooms with Bath and/or Shower'.

The screenshot displays the 'LifeSAP' software interface for 'Section 19: Water Heating System'. The interface includes a sidebar with a navigation menu, a main content area with two tabs, and a table for current and potential ratings. The 'a. Water Heating System and Bath/Shower Details' tab is active, showing the following fields:

- Heating Type: [Dropdown menu]
- Fuel Type: [Dropdown menu]
- Hot Water Cylinder:
 - Volume: [Normal (90-130 litres) dropdown]
 - Total Hot Water Storage Volume (including solar part): [0 input]
 - Insulation Type: [Jacket dropdown]
 - Insulation Thickness: [25mm dropdown]
 - Thermostat Present: [Checked checkbox]
- Bath and Shower Details:
 - Number of Rooms with Bath and/or Shower: [1 dropdown]
 - Number of Rooms with Mixer Shower and No Bath: [0 dropdown]
 - Number of Rooms with Mixer Shower and Bath: [0 dropdown]

The table below shows the current and potential ratings for the system:

Current Ratings	
SAP Rating	
EI Rating	
CO ₂ (tonnes/year)	
Energy Cost (£/year)	
Energy Use (kWh/year)	
Potential Ratings	
SAP Rating	
EI Rating	
CO ₂ (tonnes/year)	
Energy Cost (£/year)	
Energy Use (kWh/year)	

Below the table, there are sections for 'New Data Inputs', 'Modified Data Inputs', and 'Relocated Data Inputs', all of which are currently empty.

New/ amended/ relocated fields: N/A

Relevant conventions: 6.03, 6.04, 6.05, 6.06

Common pitfalls: Failure or incorrectly identifying/ recording the presence of a cylinder thermostat.

TAB B – WASTE WATER HEAT RECOVERY SYSTEMS

On this tab you are required to enter details to establish whether a Waste Water Heat Recovery System (WWHRS) would be suitable for installation and account for any system already installed.

To establish the benefit of any WWHRS installed you are required to specify the 'System type', 'Brand name', 'Model name' and 'Model qualifier' for up to 2 systems. For 'Instantaneous types' you are required to specify the 'Number of Mixer Showers with WWHRS in Rooms with Bath' and the 'Number of Mixer Showers with WWHRS in Rooms without Bath'. For 'Storage types' you are required to specify the 'Total Number of Showers and Baths' and the 'Number of Showers and Baths Routed through WWHRS'.

The screenshot displays the '19. Water Heating System' configuration screen in the Life span ReSAP software. The interface is divided into a sidebar on the left and a main content area on the right.

Sidebar (Current and Potential Ratings):

Category	Value
Current Ratings	
SAP Rating	A1418
EI Rating	A1989
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,876
Potential Ratings	
SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914
New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

Main Content Area (19. Water Heating System):

Buttons: Calculate Energy Ratings, Save Energy Data, Save Draft EPC, Previous, Next, Close.

Address: 1 Test Street, Test Town, EX14 2XF, ENGLAND

19. Water Heating System

a. Water Heating System and Bath/Shower Details | **b. Waste Water Heat Recovery Systems**

Waste Water Heat Recovery System

System Type: None

Number of Systems: 0

Waste Water Heat Recovery System (1)

Brand Name: Not Applicable

Model Name: Not Applicable

Model Qualifier: Not Applicable

Instantaneous Type

Number of Mixer Showers with WWHRS in Rooms with Bath: 0

Number of Mixer Showers with WWHRS in Rooms without Bath: 0

Storage Type

Total Number of Showers and Baths: 0

Number of Showers and Baths Routed through WWHRS: 0

Waste Water Heat Recovery System (2)

Brand Name: Not Applicable

Model Name: Not Applicable

Model Qualifier: Not Applicable

Instantaneous Type

Number of Mixer Showers with WWHRS in Rooms with Bath: 0

Number of Mixer Showers with WWHRS in Rooms without Bath: 0

New/ amended/ relocated fields: N/A

Relevant conventions: 9.08

Common pitfalls: Failure to complete section.

SECTION 20 – ENERGY SAVING AND GENERATION

There are 3 tabs in Section 20, Tab A – Solar Water Heating, Tab B – Photovoltaic Units and Tab C – Micro Wind Turbines.

TAB A – SOLAR WATER HEATING

Where Solar Water Heating is present there are varying degrees of information you are able to specify. If no details are known you can simply detail the fact that a system is present, though this is the least accurate method of specification. Where general details are known you are required to specify the ‘Collector angle’, ‘Collector orientation’, ‘Shading’, ‘Solar water pump types’ and any ‘Shower types’ present in the dwelling. This can be evidenced by either ‘Observed’ or ‘Documentary’ evidence.

Where specific details of the ‘Solar collector’ are known you are required to specify the ‘Collector data source’, ‘Collector type’, ‘Collector Aperture Area’, ‘Collector Zero Loss Coefficient’, ‘Collector Linear Heat Loss Coefficient’ and ‘Collector 2nd Order Heat Loss Coefficient’. As you may expect, this information must be evidenced by ‘Documentary’ evidence.

Finally, any ‘Solar Storage Details’ must be specified where known.

The screenshot displays the '20. Energy Saving and Generation' section of a software application. The interface includes a sidebar with a navigation menu, a main content area with tabs for 'Solar Water Heating', 'Photovoltaic Units', and 'Micro Wind Turbines', and a top navigation bar. The 'Solar Water Heating' tab is active, showing a form with the following sections:

- Solar Water Heating**: Includes a checkbox for 'Solar Water Heating Present' (checked) and a dropdown for 'Solar Water Heating Details Evidence' (set to 'Not Applicable').
- Solar Water Heating Details**: Includes a checkbox for 'Solar Water Heating Details Known' (unchecked) and a dropdown for 'Solar Water Heating Details Evidence' (set to 'Not Applicable'). Fields include: Collector Angle (30 degrees), Collector Orientation (South), Shading (Modest), Solar Water Pump Type (Electrically powered), and Shower Type(s) (Both electric and non-electric).
- Solar Collector Details**: Includes a checkbox for 'Solar Collector Details Known' (unchecked) and a dropdown for 'Solar Collector Details Evidence' (set to 'Not Applicable'). Fields include: Collector Data Source (SAP default value), Collector Type (Flat plate), Collector Aperture Area (m²) (3), Collector Zero-Loss Efficiency (0.8), Collector Linear Heat Loss Coefficient (4), and Collector 2nd Order Heat Loss Coefficient (0.01).
- Solar Storage Details**: Includes a checkbox for 'Solar Storage Details Known' (unchecked) and a dropdown for 'Solar Storage Details Evidence' (set to 'Not Applicable'). Fields include: Solar Storage is Combined (checked) and Dedicated Solar Volume (litres) (37).

On the left sidebar, a 'Current Ratings' table is visible:

Rating	Value
SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,576
Potential Ratings	
SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914

New/ amended/ relocated fields: N/A

Relevant conventions: 9.09

Common pitfalls: Failure to retain documentary evidence of information

TAB B – PHOTOVOLTAIC UNITS

Where a PV unit is present and Documentary evidence is not available, the ‘Percentage of External Roof Area with PVs’ must be recorded along with whether the PV unit is connected to the Electricity meter.

If Documentary evidence of the PV units details is available then up to 3 units can be specified with the ‘PV Unit Power (kWp)’, ‘Angle’, ‘Orientation’ and ‘Shading’ along with whether the unit is connected to the electricity meter being recorded for each unit.

The screenshot displays the SAP software interface for energy assessment. The main window is titled '20. Energy Saving and Generation' and is divided into three sub-tabs: 'a. Solar Water Heating', 'b. Photovoltaic Units', and 'c. Micro Wind Turbines'. The 'Photovoltaic Units' sub-tab is active, showing details for three units (1, 2, and 3). Each unit entry includes fields for 'PV Unit Power (kWp)', 'Angle', 'Orientation', 'Shading', and a checkbox for 'The PV is Connected to the Electricity Meter'. A 'PV Evidence' dropdown menu is set to 'Not Applicable'. On the left sidebar, a table shows 'Current Ratings' and 'Potential Ratings' for various metrics including SAP Rating, EI Rating, CO₂ emissions, Energy Cost, and Energy Use. The 'New Data Inputs' section is highlighted in green.

Category	Value
Current Ratings	
SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-€36,827
Energy Use (kWh/year)	-1,167,676
Potential Ratings	
SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-€37,383
Energy Use (kWh/year)	-1,180,914
New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

New/ amended/ relocated fields: N/A

Relevant conventions: 9.05

Common pitfalls: Failure to retain documentary evidence of information

TAB C – MICRO WIND TURBINES

Where a Micro Wind Turbine is present and Documentary Evidence is available, simply check the ‘Wind Turbine Present’ check box. Where Documentary evidence of the wind turbine are available you are able to check the ‘Wind Turbine Details Known’ check box. This enables you to specify the ‘Number of wind turbines’, the ‘Rotor diameter (m)’ and ‘Height of Turbine above Ridge of Roof (m)’.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

Calculate Energy Ratings Save Energy Data Save Draft EPC
< Previous Next > Close

20. Energy Saving and Generation 1 Test Street, Test Town, EX14 2XF, ENGLAND

a. Solar Water Heating b. Photovoltaic Units c. Micro Wind Turbines

Micro Wind Turbine Details

Wind Turbine Present :

Wind Turbine Details Known :

Number of Wind Turbines : WT Evidence :

Rotor Diameter (m) :

Height of Turbine Hub above Ridge of Roof (m) :

Current Ratings	
SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (£/year)	-£36,827
Energy Use (kWh/year)	-1,167,676
Potential Ratings	
SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-208.4
Energy Cost (£/year)	-£37,383
Energy Use (kWh/year)	-1,180,914
New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

New/ amended/ relocated fields: N/A

Relevant conventions: 9.07

Common pitfalls: Failure to retain documentary evidence of information

SECTION 21 – SPECIAL FEATURES

Where the property has technology present, you should record the details within the special features section.

The information collected must relate to technologies described in the SAP Appendix Q Database which contains details for calculating the data to be used in the SAP Calculation.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

1 Test Street, Test Town, EX14 2XF, ENGLAND

NOTE : This Section MUST only be used for technologies which are described in the SAP Appendix Q Database. For such systems, the SAP Appendix Q Database will contain details for calculating the data to be used in the SAP Calculation. The SAP 2012 Appendix Q Calculation Tools can be downloaded via the following link:
[Building Energy Performance Assessment Support - SAP Appendix Q Database](#)

#	Technology Purpose	Technology Description	Energy Savings and CO ₂ Reduction			Energy Used and CO ₂ Emissions		
			Energy Savings (kWh/year)	Fuel Type Saved	CO ₂ Reduction (kg/year)	Energy Used (kWh/year)	Fuel Type Used	CO ₂ Emissions (kg/year)
1.	Energy Saving Only	tech1	999999	Gas	0	25	Electricity	0
2.	Energy Saving and ACR	tech2	200	Wood chips	0	50	Electricity	0
3.	Not Applicable		0	Not Applicable	0	0	Not Applicable	0
4.	Not Applicable		0	Not Applicable	0	0	Not Applicable	0
5.	Not Applicable		0	Not Applicable	0	0	Not Applicable	0
6.	Not Applicable		0	Not Applicable	0	0	Not Applicable	0

Monthly Effective Air Change Rates

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SAP Rating	3	1.123	1.123	1.213	1.123	1.321	1.221	1.215	1.123	1.123	1.123	1.123

If the Dynamic Insulation (R-value) was calculated with the SAP 2012 Appendix Q (Dynamic Insulation) Calculation Tool, then the Monthly Effective Air Change Rates = 0.5

Current Ratings

SAP Rating: **A1418**

EI Rating: **A1357**

CO₂(tonnes/year): **-205.7**

Energy Cost (£/year): **-£36,827**

Energy Use (kWh/year): **-1,167,676**

Potential Ratings

SAP Rating: **A1437**

EI Rating: **A1983**

CO₂(tonnes/year): **-208.4**

Energy Cost (£/year): **-£37,383**

Energy Use (kWh/year): **-1,180,914**

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

New/ amended/ relocated fields: New section

Relevant conventions: 9.15, 9.16

Common pitfalls: N/A

SECTION 22 – ADDENDA TO THE EPC

In section 22 – Addenda to the EPC, you are able to specify a variety of ‘Addenda’s’ which will then appear on the EPC produced for the property. These are intended to explain unusual or contradictory information which may appear on the EPC or features of the property that have not been incorporated into the report. These may change over time according to DCLG requirements.

The screenshot shows the RfSAP software interface. The top bar includes the title 'PRODUCT DATABASE - Version 6, Revision 402, Date 16/09/2017' and 'EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2018'. Below the top bar are buttons for 'Calculate Energy Ratings', 'Save Energy Data', and 'Save Draft EPC', along with navigation arrows and a 'Close' button. The main content area is titled '22. Addenda to the EPC' and includes a note: 'NOTE: The purpose of addenda is to provide an explanation of items in the table on page 3 of the EPC where the description does not correspond adequately to the actual property.' Below the note is a table with 14 rows, each representing an addendum item. Item 14, 'Dwelling has a special energy saving feature', is highlighted in green. Below the table is another note: 'NOTE: Related Party Disclosure, Addenda to EPC and Recommendations Texts are Defined in: EXTERNAL DEFINITIONS'. The left sidebar contains a navigation menu with various sections, including 'Address and Existing EPC', 'Assessment Details', 'Classification', 'General', 'Flats and Maisonettes', 'Walls', 'Dimensions', 'Windows', 'Doors and Draught Proofing', 'Floors', 'Roofs', 'Roof Rooms', 'Non-Separated Conservatory', 'Main Heating System (1)', 'Main Heating System (2)', 'Community Heating System', 'Community Heat Network', 'Secondary Heating System', 'Water Heating System', 'Energy Saving and Generation', 'Special Features', 'Addenda to the EPC', 'Improvement Measures', 'Hard-to-Treat Cavity Walls', and 'Photographs'. The bottom of the sidebar shows 'Current Ratings' and 'Potential Ratings' sections, with 'New Data Inputs', 'Modified Data Inputs', and 'Relocated Data Inputs' highlighted in green, blue, and yellow respectively.

New/ amended/ relocated fields:

- New listing ‘Dwelling has a special energy saving feature’ included relating to data collected with section 21. Special Features

Relevant conventions: 3.02, 3.14, 4.02, 4.04, 4.09, 4.12, 6.03, 9.13

Common pitfalls: Failure to include addendum where relevant

SECTION 23 – IMPROVEMENT MEASURES

This section is the primary results page and is displayed after all data fields have been completed and the 'Calculate Energy Ratings' button has been pressed.

There are 3 Tabs within this section. Tab A – Recommended Measures, Tab B – Alternative Measures and Tab C – Potential Ratings and Savings.

TAB A – RECOMMENDED MEASURES

Each of the potential improvements will be assessed against the requirements of Appendix T of the SAP manual and where applicable the Improvement will be applied with the 'Indicative Cost', 'Saving (£/year)', 'SAP change', 'EI change' and whether Green Deal finance is available for the measure displayed. The Current and Potential SAP and EI ratings will be calculated and displayed in the bottom left hand corner of the screen along with the CO2, Energy Cost and Energy Use for the property.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017 EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

Calculate Energy Ratings < Previous Next >

23. Improvement Measures 1 Test Street, Test Town, EX14 2XF, ENGLAND

Improvement Measures for : England, Wales and Scotland

a. Recommended Measures | b. Alternative Measures | c. Potential Ratings and Savings

Selected	Measure	Status	Indicative Cost	Saving (£/year)	SAP Change	EI Change	Green Deal Finance	Reason NOT Selected
	A. Increase Loft Insulation to 270mm	SAP Improvement Too Small						
	A2. Flat Roof Insulation (Efficiency 03)	Already Installed						
<input checked="" type="checkbox"/>	A3. Roof Room Insulation (Main Property)	Recommended	£1,500 - £2,700	27.85	1.06	1.75	No	
	B. Install Cavity Wall Insulation	Not Applicable						
	B4. Party Wall Insulation	Not Applicable						
	Q. Add Internal or External Wall Insulation (Main Property Extension 02)	Already Installed						
	W1. Floor Insulation (for Suspended Floor)	Not Applicable						
	W2. Floor Insulation (for Solid Ground Floor)	SAP Improvement Too Small						
<input checked="" type="checkbox"/>	G. Install/Increase Hot Water Cylinder Insulation	Recommended	£15 - £30	35.35	1.33	2.38	Yes	
	D. Draughtproof Single Glazed Windows	SAP Improvement Too Small						
<input checked="" type="checkbox"/>	E. Low Energy Lights for all Fixed Outlets	Recommended	£20	48.68	1.78	1.01		
	F. Install Hot Water Cylinder Thermostat	Already Installed						
	G. Upgrade Heating Controls (for Wet Central Heating System)	Not Applicable						
	H. Upgrade Heating Controls (for Warm Air System)	Not Applicable						
	J. Replace Solid Fuel Boiler with Biomass Boiler	Not Applicable						
	K. Replace Solid Fuel Heating with Biomass Stove with Boiler	Not Applicable						
	L. Replace Boiler with Band A Gas Condensing Boiler	Not Applicable						
	R. Replace Oil Warm Air Unit with Band A Oil Condensing Boiler	Not Applicable						
	S. Replace Gas Room Heaters with Band A Gas Condensing Boiler	Not Applicable						
	T. Replace Heating with Band A Gas Condensing Boiler	Not Applicable						
	T2. True gas heat recovery device in conjunction with boiler	Not Applicable						
	L2. Replace Storage Heaters with High Heat Retention Storage Heaters	Not Applicable						
	M. Replacement Warm Air Unit	Not Applicable						
<input checked="" type="checkbox"/>	N. Solar Water Heating	Recommended	£4,000 - £6,000	87.93	3.18	5.38	No	
	Y. Heat recovery system for moist showers	Not Applicable						
<input checked="" type="checkbox"/>	O. Replace Single Glazed Windows with Low-E Double Glazing	Recommended	£3,300 - £6,500	72.89	2.86	4.75	No	
	O3. Replace Double Glazed Windows (with PVC Frames) with Low-E Double Glazing	Not Applicable						
	P. Secondary Glazing to Single Glazed Windows	Not Applicable						
	X. High performance insulated internal doors	SAP Improvement Too Small						
<input checked="" type="checkbox"/>	U1. Photovoltaic Panels, 2.5 kWp	Recommended	£9,000 - £14,000	293.71	9.41	8.12	No	
	V2. Wind Turbine	Not Applicable						

Current Ratings

SAP Rating **A1418**

EI Rating **A1959**

CO₂(tonnes/year) **-205.7**

Energy Cost (£/year) **-£36,827**

Energy Use (kWh/year) **-1,167,676**

Potential Ratings

SAP Rating **A1437**

EI Rating **A1983**

CO₂(tonnes/year) **-208.4**

Energy Cost (£/year) **-£37,383**

Energy Use (kWh/year) **-1,180,914**

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

New/ amended/ relocated fields: N/A

Relevant conventions: 4.02, 4.09, 8.01, 8.02

Common pitfalls: Suppressing recommendations outside of the scope of RdSAP convention 8.01

TAB B – ALTERNATIVE MEASURES

These measures include emerging technologies and will not appear on the EPC.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017

EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

1 Test Street, Test Town, EX14 2XF, ENGLAND

23. Improvement Measures

Improvement Measures for : England, Wales and Scotland

a. Recommended Measures | b. Alternative Measures | c. Potential Ratings and Savings

Selected	Measure	Status	Indicative Cost	Saving (€/year)	SAP Change	EI Change	Green Deal Finance	Reason NOT Selected
	Q2. External insulation with cavity wall insulation	Not Applicable						
	Z2. Replace Heating with Biomass Boiler	Not Applicable						
	Z1. Replace Heating with Air or ground source heat pump (with radiators)	Not Applicable						
	Z2. Replace Heating with Air or ground source heat pump (with underfloor heating)	Not Applicable						
	Z3. Replace Heating with Micro CHP	Not Applicable						

Current Ratings

SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (€/year)	-€36,827
Energy Use (kWh/year)	-1,167,676

Potential Ratings

SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-206.4
Energy Cost (€/year)	-€37,383
Energy Use (kWh/year)	-1,180,914

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

TAB C – POTENTIAL RATINGS AND SAVINGS

This is a slightly more detailed summary of the information detailed in the bottom left hand corner of the screen after calculation.

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017

EXTERNAL DEFINITIONS : Revision 6.1, Date 11/06/2019

1 Test Street, Test Town, EX14 2XF, ENGLAND

23. Improvement Measures

Improvement Measures for : England, Wales and Scotland

a. Recommended Measures | b. Alternative Measures | c. Potential Ratings and Savings

Potential Ratings

SAP Rating	A1437
EI Rating	A1983
CO ₂ Emissions (tonnes/year)	-206.4
Energy Cost (€/year)	-€37,383
Energy Use (kWh/year)	-1,180,914

Potential Savings

SAP Increase	19.62	1.4%
EI Increase	23.4	1.2%
CO ₂ Reduction (tonnes/year)	2.7000000000000002	0%
Cost Saving (€/year)	€566	0%
Energy Reduction (kWh/year)	13,238	0%

Current Ratings

SAP Rating	A1418
EI Rating	A1959
CO ₂ (tonnes/year)	-205.7
Energy Cost (€/year)	-€36,827
Energy Use (kWh/year)	-1,167,676

Potential Ratings

SAP Rating	A1437
EI Rating	A1983
CO ₂ (tonnes/year)	-206.4
Energy Cost (€/year)	-€37,383
Energy Use (kWh/year)	-1,180,914

New Data Inputs

Modified Data Inputs

Relocated Data Inputs

SECTION 24 – HARD TO TREAT CAVITY WALLS

Where a Cavity Wall has been specified in the project there is an opportunity to detail whether there are any issues relating to the Cavity Wall which would classify it as 'Hard to Treat'. Regions which are considered 'High exposure' are detailed in the RdSAP conventions.

Current Ratings	
SAP Rating	E51
EI Rating	E33
CO ₂ (tonnes/year)	8.6
Energy Cost (£/year)	£1,354
Energy Use (kWh/year)	50,325
Potential Ratings	
SAP Rating	C71
EI Rating	E63
CO ₂ (tonnes/year)	5.1
Energy Cost (£/year)	£793
Energy Use (kWh/year)	30,456
New Data Inputs	
Modified Data Inputs	
Relocated Data Inputs	

New/ amended/ relocated fields: N/A

Relevant conventions: 3.14, 9.10

Common pitfalls: Failure to identify a property as 'High Exposure'.

SECTION 25 – PHOTOGRAPHS

There is now an opportunity to upload photographs to an assessment, selecting from one of the three categories of either EPC, floorplan or site notes.

The facility to browse and upload files is to the right of the screen where a description should also be selected from the drop-down list. The list of all attached files is displayed to the left of the screen and clicking on each of the filenames will open the image in a larger format on the right.

The screenshot shows the '25. Photographs' section of the Life span RESAP software. The interface includes a navigation menu on the left, a main content area with a table of uploaded photos, and a large preview window on the right displaying a photo of a green door.

Filename	Description	Photo
22124-73.jpg	Main Property - Front Door	

The preview window shows a photograph of a green door set in a brick wall. The door has a small sign that says 'Entrance' and a 'DU' logo. The address '1 Test Street, Test Town, EX14 2XF, ENGLAND' is visible in the top right corner of the software interface.

New/ amended/ relocated fields: New section

Relevant conventions: N/A

Common pitfalls: N/A

LANDMARK FACILITIES

Lifespan RdSAP integrates several services directly with the Central Government register operated by Landmark Information Group. This functionality enables you to search for addresses on the central register and also lodge EPCs to the central register without leaving the Lifespan SAP interface.

ADDRESS SEARCH FACILITIES

PRODUCT DATABASE : Version 6, Revision 402, Date 16/09/2017

Calculate Energy Ratings Save Energy Data Save Draft EPC < Prev

Address and Existing EPC

Find UPRN and Property Address

Property Address Details

UPRN: 0132659278

Address 1: Upper Inkerman Street

Address 2:

Town:

County: LLANELLI

Postcode: SA15 1SB

Find Country and Region from Postcode

Regional Details

Country: [highlighted]

Region: [highlighted]

1. Find Property Address

Region: England and Wales

House Name / Number:

Postcode:

Find Property

Clicking on 'Find UPRN and Property Address' will open a new window with an address search facility. Select the appropriate region, enter address details and press 'Find Property'.

1. Find Property Address

Region: England and Wales

Please highlight the correct address and click 'Select Address'

5 Upper Inkerman Street, LLANELLI, Dyfed SA15 1SB

6 Upper Inkerman Street, LLANELLI, Dyfed SA15 1SB

7 Upper Inkerman Street, LLANELLI, Dyfed SA15 1SB

8 Upper Inkerman Street, LLANELLI, Dyfed SA15 1SB

9 Upper Inkerman Street, LLANELLI, Dyfed SA15 1SB

10 Upper Inkerman Street, LLANELLI, Dyfed SA15 1SB

Select Address

If the property you are looking for is not shown above, please revise the address below:

2. Check Property Address

Address 1:

Address 2:

Address 3:

Town:

Postcode: SA15 1SB

Revise Search

Once the search is complete, choose the address from the list and press 'Select Address'.

If the address you are looking for does not appear in the list, enter the details you require in the 'Property Address' fields and click 'Revise Search'.

Address not found? - Add address to register

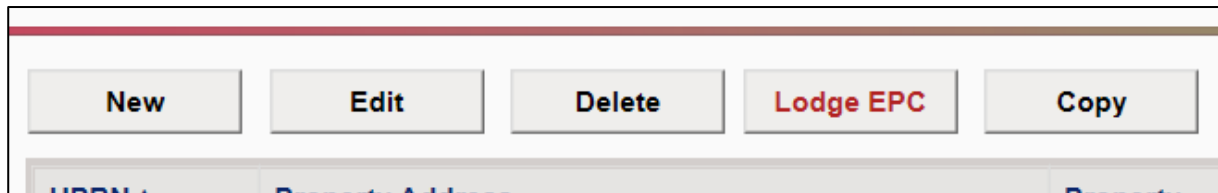
If the address you are looking for is still not found, click the 'Address not found? - Add address to register' button.

An address request will be sent to the address register and your address will be saved temporarily. You should then receive communications to your registered email address from Landmark regarding the status of your request.

Once the address details have been completed, click on the 'Find Country and Region from Postcode' button. This will populate the required regional details using the postcode provided in the address section above.

EPC LODGEMENT

When you have completed your data input by pressing 'Calculate Energy Ratings' > 'Save Energy Data' > 'Save Draft EPC' you may exit the data input section to the 'Survey Summary' screen. In order to lodge the survey, you must highlight the relevant survey by clicking on the UPRN. The 'Lodge EPC' button should then be available. If you are content that the survey is correct and is ready to be lodged to the central register, click the 'Lodge EPC' button.



Clicking on the 'Lodge EPC' button will take you through the lodgement process relevant to the region.

ESSENTIAL READING

The Governments Standard Assessment Procedure for Energy Rating Of Dwellings 2012 edition

RdSAP conventions v11.0 issued 01/09/2019

RECOMMENDED READING

SAP Appendix Q database - <http://www.ncm-pcdb.org.uk/sap/page.jsp?id=18>