

# Level(s) test phase survey

## Introduction to the survey

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Thank you for taking part in the Level(s) test phase. The involvement of your test building is important to the future development of Level(s).

As well as the results of your test, the Commission is interested in your experience using Level(s). The aim of this survey is therefore to obtain feedback on testers' experience of using Level(s). Your response to the questions will form part of the Commission's evaluation of the success of the test.

The Commission wishes to obtain feedback on three key aspects of your project's test of Level(s):

- How useful was Level(s) for assessing the buildings performance?
- How did the design of Level(s) support the process of making the assessment?
- How user friendly were the selected indicators and life cycle tools, together with their supporting guidance?

Before completing the survey it is recommended that the questions are reviewed with all those in the project team who have been involved in the test in order to capture the experience and feedback of the team as a whole. It is recommended to save the survey frequently as you complete it, so as not to lose any work. Please make sure to complete section 5 for all the indicators that you have tested.

All testers must submit their surveys in EU Survey at the latest by the **30th September 2019**.

If you encounter any problems using EU Survey, please let us know by emailing: [jrc-b5-levels@ec.europa.eu](mailto:jrc-b5-levels@ec.europa.eu)

## 1. Details of the test building project

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### **Q1.1 Building project name (as submitted in the registration)**

### **Q1.2 Country**

### **Q1.3 Name of the person responsible for submitting the survey**

**Q1.4 Email address**

**Q1.5 What building type have you tested Level(s) on?**

- Residential
- Office
- Mixed use (*predominantly office/residential*)
- Other (*please describe below*)

*If you chose other as a building type, please identify the building uses*

**Q1.6 Which building professions have been involved in the Level(s) test? *for example, architect, structural engineer, cost consultant, contractors***

*Please identify the professions of those who have been involved*

**Q1.7 Is the survey being completing by a team or by an individual professional carrying out the test?**

*Please choose only one option*

- Team response
- Individual response

**Q1.8 Please indicate which of the following stakeholders have been involved in the test.**

*Your choice will reveal questions of relevance to each stakeholder in **Section 4** of the survey.*

- Public authorities** involved in the test, including as clients and investors in the building.
- Private investors and owners** of the building asset
- Building design and construction professionals** involved in the building project

**Q1.9 At which project stage have you tested Level(s)?**

*Please select the relevant stage*

- Design stage
- Construction
- Completion and handover
- Occupation

**Q1.10 Which indicators and life cycle tools have been tested?**

*Your test choice will generate a set of questions for each indicator and tool in **Section 5** of the survey.*

## The Level(s) test minimum reporting requirements

Please select which indicators and life cycle tools, and the highest Level tested

	Level 1	Level 2	Level 3
1.1 Use stage energy consumption	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.3 Construction and demolition waste and materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.1 Use stage water consumption	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.1 Indoor air quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.2 Time out of thermal comfort range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Recommended *in addition to the Level(s) test minimum reporting requirements*

Please select which indicators and life cycle tools, and the highest Level tested

	Level 1	Level 2	Level 3
1.2 Life cycle Global Warming Potential (GWP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.1 Life cycle tool: Building Bill of Materials (BoM)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## The Level(s) test optional additional reporting

Please select which indicators and life cycle tools, and the highest Level tested

	Level 1	Level 2	Level 3
2.2 Life cycle tool: scenario 1 - Building and elemental service life planning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.2 Life cycle tool: scenario 2 - Design for adaptability and refurbishment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.2 Life cycle tool: scenario 3 - Design for deconstruction, reuse and recycling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.4 Life cycle tool: Cradle to cradle Life Cycle Assessment (LCA)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.1 Life cycle tool: scenario 1 – Protection of occupier health and thermal comfort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.1 Life Cycle Cost (LCC)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 Value creation and risk factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## 2. Expectations and previous experience

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In this first section we would like you to tell us about the **expectations and motivations for using Level (s)** and for taking part in the test. **Previous experience of making sustainability performance assessments** is also of interest to us. Questions aimed at a test team may also be answered by individual testers.

Please make sure to save the survey as you complete it, so as not to lose any work.

### **Q2.1 When joining the test phase, what were the general expectations that motivated the use of Level(s)?**

*Multiple answers are possible*

- That it would provide information to establish objectives and targets for the sustainability of projects
- That it would provide information to measure whether sustainability objectives and targets have been met
- That it would provide information about the benefits of more sustainable buildings to clients/users
- That it would provide information to avoid future risks (e.g. high carbon tax, high costs of renovation, low occupant satisfaction and therefore high property void rates)
- The possibility to compare a Level(s) assessment with assessments made using existing schemes (e.g. DGNB, HQE, BREEAM etc.) or recent or forthcoming national regulation (e.g. in the Netherlands or France).
- That it would provide information to support benchmarking and comparisons of the performance of different buildings
- Other (please specify)

*Please elaborate further on any other expectations and motivations*

### **Q2.2 How would you describe the test team's overall previous experience in making environmental or sustainability performance assessments of buildings?**

*Please choose one option only*

- No previous experience
- Limited previous experience  
(e.g. minimum energy/Energy Performance Certificate (EPC) requirements)
- Some previous experience  
(e.g. simplified building simulations, comparisons of building materials based on Environmental Product Declarations (EPDs), water use estimates)
- Extensive previous experience  
(e.g. dynamic building simulations, LCA assessments, building certification scheme assessments)

### **Q2.3 If your team has previous experience of making environmental or sustainability performance assessments, please identify the specific *performance assessment schemes and methods* that the y have used**

Please specify which ones and their origin

**Q2.4 If the test followed the minimum scope, what would have encouraged the testing of the other optional indicators and life cycle tools?**

Please briefly explain what would have encouraged additional testing

### 3. How Level(s) is designed

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In this section we are interested in the **added value of using Level(s)**, including **the different 'levels' and reporting options** made available to building professionals. Questions aimed at a test team may also be answered by individual testers.

Please make sure to save the survey as you complete it, so as not to lose any work.

Please answer for each of the following aspects. The questions are relevant for all test buildings.

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
<b>Q3.1 <u>To what extent did Level(s) help you and your team to obtain practical information on the sustainability performance of the test building?</u></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Q3.2 <u>To what extent did Level(s) help you and your team to identify design performance improvement measures?</u></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Q3.3 <u>To what extent did Level(s) help you and your team to set sustainability objectives and targets for the performance of the test building?</u></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Q3.4 <u>If you used Level(s) already in the planning stage, to what extent is the data collected for Level(s) the same as that needed for building permits?</u></b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

<p><b>Q3.5 <u>To what extent did Level(s) help in focussing on the monitoring of the actual performance of an occupied building?</u></b></p>	○	○	○	○	○	○
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**Q3.6 If in question 2.2 you said the test team had limited previous experience making sustainability assessments, to what extent has the use of Level(s) helped in getting started?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please briefly elaborate on the reasons for your response*

**Q3.7 Based on the Levels at which you chose to test, to what extent did the test team find the option to work at the three distinct Levels to be useful?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please briefly explain your views on the usefulness of the levels*

**Q3.8 If Level(s) was tested on a residential building, to what extent was it technically suitable for assessing this type of building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please briefly explain the reasoning for your response*

**Q3.9. Now that you have tested Level(s), please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**Encouraging life cycle thinking**

Level(s) aims to encourage users to think about the whole life cycle of a building – from the manufacturing of the products and materials used to construct the building, right through to the building's eventual deconstruction and re-use and recycle of materials.

Level(s) is designed in a way that users can start by learning about the different necessary steps to conduct Life Cycle Assessment (LCA). Having learnt about these different steps, users can then hopefully be more confident to move towards using LCA.

**Q3.9 To what extent did use of indicator 1.2 and/or 'life cycle tools' help provide a better understanding of the life cycle of the test building?**

*The life cycle tools are 2.1 Building Bill of Materials, 2.2 Life cycle scenarios 1-3, 2.4 Cradle to cradle LCA, 5.1 Future scenarios for climate change.*

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the help was moderate or higher, please identify how it helped their understanding*

**Q3.10 To what extent has use of indicator 1.2 and/or the 'life cycle tools' has encouraged the team to analyse the life cycle of buildings in more depth?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the encouragement was moderate or higher, please identify how it encouraged them*

## **The influence of sustainability on property market valuations**

The focus of indicator 6.2 is on those aspects of a more sustainable building performance that have the potential to create financial value or to expose owners and investors to risks and liabilities in the future.

Level(s) allows information to be reported for each indicator or life cycle tool indicator that then contributes to the indicator 6.2 result. The aim is to highlight whether, for each indicator or life cycle tool, sustainability performance aspects have been taken into account in a market valuation, and to provide those making the valuation with information on the reliability of the underlying data and calculation methods on which a reported performance is based.

### **Q3.11 If you made assessments of value and reliability for your test indicators and life cycle tools, to what extent did the assessments provide useful information?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*
- No assessments were made*

*If you rated their usefulness moderate or higher, please identify how it was useful*

## **4. The value of Level(s) to key stakeholders**

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In this section we are interested in the value Level(s) has for specific stakeholders who have been involved in the test. It is split into questions for those involved in the test who represent:

- **public sector authorities;**
- **investors and owners of property assets;**
- **design and construction professionals.**

Based on how you answered Q1.8, questions will be provided for representatives of those stakeholders if



they have been involved in the test.

Please make sure to save the survey as you complete it, so as not to lose any work.

### **The Public Sector**

These questions are directed at **public sector authorities** involved in the test, including as clients or investors in the building.

#### **Q4.1 Based on the test experience, to what extent could Level(s) be of future value in developing new procurement requirements?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please specify which features in particular have been of value, or what was missing that could make it more valuable*

#### **Q4.2 Based on the test experience, to what extent could Level(s) be of future value in supporting other public policy initiatives?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify specific initiatives and the features of Level(s) that could be of value, or what was missing that could make it more valuable*

#### **Q4.3 In terms of how Level(s) could be used in the future, to what extent could the test experience be applied to the improvement of other public buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent

- Great extent
- Very great extent

*Please elaborate on the reason for your response*

**Q4.4 As a client or investor in the building, to what extent did Level(s) provide meaningful information for financial appraisals and risk assessments?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not relevant to this test*

*Please specify what information was useful, or what information was missing that could have made it more useful*

**Private investors and property asset owners**

These questions are directed at **private investors and owners of the building asset** who were involved in the test.

**Q4.5 To what extent did Level(s) provide meaningful information to support financial appraisals and risk assessments?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please specify what was useful, or what was missing that could have made it more useful*

**Q4.6. If you made an assessment of value and reliability, providing results for indicator 6.2, to what extent did the assessment provide useful information?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If you rated its usefulness moderate or higher, please identify how it was useful*

**Q4.7 In terms of how Level(s) could be used in the future, to what extent could the test experience be applied to the improvement of other building assets?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please elaborate on the reason for your response*

**Building design and construction professionals**

This question is directed at **the designers and construction contractor(s)** responsible for the test building. In the case of a completed/occupied building, this will depend on if they are still available and willing to respond.

**Q4.8 Taking into account the minimum scope for a test, to what extent did Level(s) provide enough information to decide with your client which sustainability aspects should be addressed in the test building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please specify what information was the most useful, or what information was missing that could have made it more useful*

**Q4.9 To what extent did Level(s) provide meaningful information to support design and specification decisions?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not relevant to this test*

*Please specify what information was useful, or what information was missing that could have made it more useful*

## 5. Using the test indicators and life cycle tools: minimum requirements

In this section we are interested in the test project team's **experience of using each of the indicators and life cycle tools selected for testing.**

*Please complete the set of questions for each indicator and life cycle tool that you have tested (as selected in **Section 1**). Bear in mind that this may require several sessions to complete, and the input of several team members, as each indicator and tool requires a separate set of answers.*

*Please make sure to save the survey as you complete it, so as not to lose any work. Please also note that the questions are split into three sections, according to the minimum and optional test scope.*

### **Indicator 1.1: Use stage energy consumption**

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment provided in the JRC Level(s) documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards that are specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools</u> and reference data sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

Please specify useful resources from previous projects

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

Please choose one option only

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

Please identify the source of results that were already available

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

Please answer for each of the following aspects

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

Please answer for each of the following aspects

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*



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**Indicator 2.3 Construction and demolition waste and materials**

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### The value of using Level 3

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

#### **Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### Indicator 3.1 Use stage water consumption

#### **Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*



### The value of using Level 2

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

#### **Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### The value of using Level 3

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

#### **Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### Indicator 4.1 Indoor air quality

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent

- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other (*please specify*)

Please identify the type of training and/or support that was needed

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

Please be as specific as possible in your suggestions

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

Please choose one option only

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

If the value was moderate or higher, please identify how its use influenced the results

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**Indicator 4.2 Time out of thermal comfort range**

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1.7 If used, the Level 3 aspects and guidance notes



**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all

- Limited extent
- Moderate extent
- Great extent
- Very great extent

Please identify the source of results that were already available

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

Please answer for each of the following aspects

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	Not relevant to this test building
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

Please answer for each of the following aspects

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

Please choose one option only



- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

## Recommended in addition to the minimum scope

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**Indicator 1.2 Life cycle Global Warming Potential (GWP)**

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

Please answer for each of the following aspects

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment provided in the JRC Level(s) documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards that are specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement that is specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format that is provided in the documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 <u>The suggested calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 <u>If used, the Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 <u>If used, the Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

Please choose one option only

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

Please choose one option only

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**2.1 Life cycle tool: Building Bill of Materials (BoM)**

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent

- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*



**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

## Optional additional reporting

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### 2.2 Life cycle tool: scenario 1 - Building and elemental service life planning

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test

1.1 <u>The guidance for making a common performance assessment provided in the JRC Level(s) documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards that are specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement that is specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format that is provided in the documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 <u>The suggested calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 <u>If used, the Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 <u>If used, the Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

## 2.2 Life cycle tool: scenario 2 - Design for adaptability and refurbishment

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
-

Very great extent

Please identify the source of results that were already available

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

Please answer for each of the following aspects

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	Not relevant to this test building
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

Please answer for each of the following aspects

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

Please choose one option only

- No previous experience
- Limited previous experience
- Some previous experience



- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all  
 Limited extent  
 Moderate extent  
 Great extent  
 Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods  
 Calculation or modelling tool software use  
 Access to and handling of data sets  
 Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**2.2 Life cycle tool: scenario 3 - Design for deconstruction, reuse and recycling**

**Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test

1.1 <u>The guidance for making a common performance assessment provided in the JRC Level(s) documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards that are specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement that is specified should be used</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format that is provided in the documentation</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 <u>The suggested calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 <u>If used, the Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 <u>If used, the Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all

- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

## 2.4 Life cycle tool: Cradle to cradle Life Cycle Assessment (LCA)

### Q1. To what extent was the indicator or life cycle tool easy and logical to use?

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?

*Please choose one option only*

- Not at all
- Limited extent

- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*



**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent

- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### The value of using Level 3

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

#### **Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

## 5.1 Life cycle tool: scenario 1 – Protection of occupier health and thermal comfort

### **Q1. To what extent was the indicator or life cycle tool easy and logical to use?**

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

Please specify useful resources from previous projects

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

Please choose one option only

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

Please identify the source of results that were already available

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

Please answer for each of the following aspects

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

Please answer for each of the following aspects

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

**The value of using Level 3**

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

**Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

## Indicator 6.1 Life Cycle Cost (LCC)

### Q1. To what extent was the indicator or life cycle tool easy and logical to use?

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

### Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?

*Please choose one option only*



- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

*Please specify useful resources from previous projects*

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*Please identify the source of results that were already available*

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

*Please answer for each of the following aspects*

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>

6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

*Please answer for each of the following aspects*

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use

- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*

**The value of using Level 2**

Level 2 is aimed at building professionals that wish to make meaningful comparisons between functionally equivalent buildings. The Level(s) framework lays down rules to support the comparability of results at national level or building portfolio level.

**Q12. To what extent did Level 2 prove to be useful in making comparisons between buildings?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### The value of using Level 3

Level 3 represents the most advanced use of each indicator. The Level(s) framework provides guidance to support building professionals that wish to work at a more detailed level to model and improve performance.

#### Q13. To what extent did Level 3 prove useful in obtaining more precise and reliable results?

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure*

*If the value was moderate or higher, please identify how its use influenced the results*

### Indicator 6.2 Value creation and risk factors

The focus of indicator 6.2 is on those aspects of a more sustainable building performance that have the potential to create financial value or to expose owners and investors to risks and liabilities in the future.

The information reported for indicator 6.2 is intended to highlight whether sustainability performance aspects have been taken into account in a market valuation, and to provide those making the valuation with information on the reliability of the underlying data and calculation methods on which a reported performance is based.

#### Q1. To what extent was the indicator or life cycle tool easy and logical to use?

*Please answer for each of the following aspects*

	Not at all	Limited extent	Moderate extent	Great extent	Very great extent	Not relevant to this test
1.1 <u>The guidance for making a common performance assessment</u> provided in the JRC Level(s) documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 <u>The calculation method(s) and standards</u> that are specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1.3 <u>The unit of measurement</u> that is specified should be used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 <u>The reporting format</u> that is provided in the documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 The suggested <u>calculation tools and reference data sources</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 If used, the <u>Level 2 rules for comparative reporting</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 If used, the <u>Level 3 aspects and guidance notes</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q2. If comparisons were made of different building design options, to what extent did the indicator or life cycle tool help to do this?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent
- Not sure

**Q3. To what extent did you encounter any problems in obtaining a result for the indicator or life cycle tool?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If the problems were moderate or higher, please identify the main problems encountered and, if relevant, how you overcame them or got around them.*

**Q4. When making the assessment, were there any other specific references, datasets or tools you had used on other building assessments that proved useful?**

*If you answer yes, please elaborate further in the box below*

- Yes
- No

Please specify useful resources from previous projects

**Q5. To what extent did you already have access to the required results from other assessments of the building?**

Please choose one option only

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

Please identify the source of results that were already available

**Q6. If you had to obtain the standards, data and/or tools in order to make the Level(s) assessment, how readily available were they?**

Please answer for each of the following aspects

	Not possible to obtain	Difficult to obtain	Some effort to obtain	Easy to obtain	Already had them	<i>Not relevant to this test building</i>
6.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q7. If you had to purchase the standards, data and/or tools, to what extent was their cost a barrier to using them?**

Please answer for each of the following aspects

	Not at all	One of the factors	The main factor
7.1 The <u>technical standards</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7.2 The <u>databases</u> used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3 <u>Calculation and modelling tools</u>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Q8. How would you describe the previous experience of the test team with similar indicators or life cycle tools?**

*Please choose one option only*

- No previous experience
- Limited previous experience
- Some previous experience
- Extensive previous experience

**Q9. Based on the previous experience of the test team, to what extent did using this indicator or life cycle tool require additional training and support?**

*Please choose one option only*

- Not at all
- Limited extent
- Moderate extent
- Great extent
- Very great extent

*If additional training and support was required, please identify the main areas where it was necessary:*

- Knowledge of standards or methods
- Calculation or modelling tool software use
- Access to and handling of data sets
- Other *(please specify)*

*Please identify the type of training and/or support that was needed*

**Q10. If possible please provide an estimate of the cost and/or time that were required to use this indicator or tool.**

*Please record estimates in the table below. The time estimate should include any personnel directly engaged in the test, including sub-contractors. The cost estimate should be inclusive of any additional documentation, data, tools or training that needed to be acquired during the test.*

	Your estimate
Person days	
Cost in Euros	

**Q11. Now that you have tested the indicator/life cycle tool, please make any suggestions for improvements that would make it easier to use.**

*Please be as specific as possible in your suggestions*