

# Energy Performance Certificate

## Non-Domestic Building



Small Office Level 3 Case Study  
city?  
postcode?

Certificate Reference Number:

This certificate shows the energy rating of this building. It indicates the energy efficiency of the building fabric and the heating, ventilation, cooling and lighting systems. The rating is compared to two benchmarks for this type of building: one appropriate for new buildings and one appropriate for existing buildings. There is more advice on how to interpret this information on the Government's website [www.communities.gov.uk/epbd](http://www.communities.gov.uk/epbd).

### Energy Performance Asset Rating

More energy efficient

A+

Net zero CO<sub>2</sub> emissions

A 0-25

B 26-50

C 51-75

◀ 60

This is how energy efficient the building is.

D 76-100

E 101-125

F 126-150

G Over 150

Less energy efficient

### Technical information

Main heating fuel: Natural Gas  
Building environment: Heating and Natural Ventilation  
Total useful floor area (m<sup>2</sup>): 288  
Building complexity (NOS level): 3

### Benchmarks

Buildings similar to this one could have ratings as follows:

40 If newly built

78 If typical of the existing stock

## Administrative information

This is an Energy Performance Certificate as defined in SI2007:991 as amended

**Assessment Software:** iSBEM v3.0.b using calculation engine SBEM v3.0.b

**Property Reference:** 000000000000

**Assessor Name:** Energy Assessor/Qualified Person

**Assessor Number:**

**Accreditation Scheme:**

**Employer/Trading Name:**

**Employer/Trading Address:**

**Issue Date:**

**Valid Until:**

**Related Party Disclosure:**

**Recommendations for improving the property are contained in Report Reference Number:**

## If you have a complaint or wish to confirm that the certificate is genuine

Details of the assessor and the relevant accreditation scheme are on the certificate. You can get contact details of the accreditation scheme from the Government's website at [www.communities.gov.uk/epbd](http://www.communities.gov.uk/epbd), together with details of the procedures for confirming authenticity of a certificate and for making a complaint.

Report Reference Number: 00000000

Dental Surgery

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Building Type(s): Primary health care buildings

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<b>ADMINISTRATIVE INFORMATION</b>	
Issue Date:	09 Jul 2009
Valid Until:	08 Jul 2019 (*)
Total Useful Floor Area (m <sup>2</sup> ):	47
Calculation Tool Used:	iSBEM v3.4.a using calculation engine SBEM v3.4.a
Property Reference:	2519495745340000
Energy Performance Certificate for the property is contained in Report Reference Number: 000000000000000000	

<b>ENERGY ASSESSOR DETAILS</b>	
Assessor Name:	Mark Simons
Employer/Trading Name:	Energy Assessors London Ltd.
Employer/Trading Address:	17 Dobree Avenue London NW10 2AD
Assessor Number:	EES/004083
Accreditation scheme:	Elmhurst Energy Systems Ltd
Related Party Disclosure:	The Assessors has no relation or interest to the owner of this property.

## **Table of Contents**

1. Background.....	3
2. Introduction.....	3
3. Recommendations.....	4
4. Next Steps.....	6
5. Glossary.....	8

## 1. Background

Statutory Instrument 2007 No. 991, *The Energy Performance of Buildings (Certificates and Inspections) (England and Wales) Regulations 2007*, as amended, transposes the requirements of Articles 7.2 and 7.3 of the Energy Performance of Buildings Directive 2002/91/EC.

This report is a Recommendation Report as required under regulations 16(2)(a) and 19 of the Statutory Instrument SI 2007:991.

This section provides general information regarding the building:

Total Useful Floor Area (m <sup>2</sup> ):	47
Building Environment:	Heating and Natural Ventilation

## 2. Introduction

This Recommendation Report was produced in line with the Government's approved methodology and is based on calculation tool iSBEM v3.4.a using calculation engine SBEM v3.4.a .

In accordance with Government's current guidance, the Energy Assessor did undertake a walk around survey of the building prior to producing this Recommendation Report.

### 3. Recommendations

The following sections list recommendations selected by the energy assessor for the improvement of the energy performance of the building. The recommendations are listed under four headings: short payback, medium payback, long payback, and other measures.

#### ***a) Recommendations with a short payback***

This section lists recommendations with a payback of less than 3 years:

<b>Recommendation</b>	<b>Potential impact</b>
Consider replacing T8 lamps with retrofit T5 conversion kit.	HIGH
Some spaces have a significant risk of overheating. Consider solar control measures such as the application of reflective coating or shading devices to windows.	MEDIUM
Introduce HF (high frequency) ballasts for fluorescent tubes: Reduced number of fittings required.	LOW

#### ***b) Recommendations with a medium payback***

This section lists recommendations with a payback of between 3 and 7 years:

<b>Recommendation</b>	<b>Potential impact</b>
Some walls have uninsulated cavities - introduce cavity wall insulation.	MEDIUM
Some windows have high U-values - consider installing secondary glazing.	MEDIUM
Add weather compensation controls to heating system.	MEDIUM

#### ***c) Recommendations with a long payback***

This section lists recommendations with a payback of more than 7 years:

<b>Recommendation</b>	<b>Potential impact</b>
Add local time control to heating system.	MEDIUM
Consider replacing heating boiler plant with a condensing type.	HIGH
Install more efficient water heater.	LOW

Some glazing is poorly insulated. Replace/improve glazing and/or frames.	MEDIUM
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**d) Other recommendations**

This section lists other recommendations selected by the energy assessor, based on an understanding of the building, and / or based on a valid existing energy report.

<b>Recommendation</b>	<b>Potential impact</b>
Consider installing building mounted wind turbine(s).	LOW
Consider installing solar water heating.	LOW
Consider installing PV.	LOW

## **4. Next steps**

### ***a) Your Recommendation Report***

As the building occupier, regulation 10(1) of SI 2007:991 requires that an Energy Performance Certificate "*must be accompanied by a recommendation report*".

You must be able to produce a copy of this Recommendation Report within seven days if requested by an Enforcement Authority under regulation 39 of SI 2007:991.

This Recommendation Report has also been lodged on the Government's central register. Access to the report, to the data used to compile the report, and to previous similar documents relating to the same building can be obtained by request through the Non-Dwellings Register ([www.epcregister.com](http://www.epcregister.com)) using the report reference number of this document.

### ***b) Implementing recommendations***

The recommendations are provided as an indication of opportunities that appear to exist to improve the building's energy efficiency.

The calculation tool has automatically produced a set of recommendations, which the Energy Assessor has reviewed in the light of his / her knowledge of the building and its use. The Energy Assessor may have comments on the recommendations based on his / her knowledge of the building and its use. The Energy Assessor may have inserted additional measures in section 3d (Other Recommendations). He / she may have removed some automatically generated recommendations or added additional recommendations.

These recommendations do not include matters relating to operation and maintenance which cannot be identified from the calculation procedure.

### ***c) Legal disclaimer***

The advice provided in this Recommendation Report is intended to be for information only. Recipients of this Recommendation Report are advised to seek further detailed professional advice before reaching any decision on how to improve the energy performance of the building.

### ***d) Complaints***

Details of the assessor and the relevant accreditation scheme are on this report and the energy performance certificate. You can get contact details of the accreditation scheme from our website at [www.communities.gov.uk/epbd](http://www.communities.gov.uk/epbd), together with details of their procedures for confirming authenticity of a certificate and for making a complaint.

## 5. Glossary

### **a) Payback**

The payback periods are based on data provided by Good Practice Guides and Carbon Trust energy survey reports and are average figures calculated using a simple payback method. It is assumed that the source data is correct and accurate using up to date information.

The figures have been calculated as an average across a range of buildings and may differ from the actual payback period for the building being assessed. Therefore, it is recommended that each suggested measure be further investigated before reaching any decision on how to improve the energy efficiency of the building.

### **b) Carbon impact**

The High / Medium / Low carbon impact indicators against each recommendation are provided to distinguish, between the suggested recommendations, those that would have most impact on carbon emissions from the building. For automatically generated recommendations, the carbon impact indicators are determined by software, but may have been adjusted by the Energy Assessor based on his / her knowledge of the building. The impact of other recommendations are determined by the assessor.

### **c) Valid report**

A valid report is a report that has been:

- Produced within the past 10 years
- Produced by an Energy Assessor who is accredited to produce Recommendation Reports through a Government Approved Accreditation Scheme
- Lodged on the Register operated by or on behalf of the Secretary of State.