

Office of the Deputy Prime Minister

***Further Amendments to Approved Document L1:  
Conservation of fuel and power in dwellings  
Raising performance standards for central heating boilers***

**AMENDMENT**

**See enclosed**

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# Further Amendments to Approved Document L1 (2002)

## CONSERVATION OF FUEL AND POWER IN DWELLINGS

### Raising performance standards for central heating boilers.

1. This document:
  - a) makes amendments to the Amendments to Approved Document L1 (ISBN 0 11 753946 5) that came into effect on 1 April 2005 (“the 2005 ADL1 amendment”); and
  - b) reinstates the original Appendix E to Approved Document L1 (2002 edition as amended and printed in 3rd impression 2003).
2. These amendments come into effect on 5 September 2005

### Amendments to the 2005 ADL1 amendment

3. The 2005 ADL1 amendment is amended as follows.
4. Delete paragraphs 2, 3 and 4 and replace with the following:

#### “Elemental method

2. On page 12, delete the heading “Heating efficiency”, and for paragraph 1.7 and Table 2 substitute:

“1.7 Table 2 sets out the minimum boiler SEDBUK<sup>22</sup> values that enable the adoption of the U-values in Table 1 when using the Elemental Method, and the reference boiler SEDBUK values to be used in the Target U-value Method for establishing the fabric insulation specifications. See paragraph 1.35A for the boiler performance standards that should actually be achieved

**Table 2 Minimum boiler SEDBUK to enable adoption of the U-values in Table 1, and reference boiler SEDBUK for use in the Target U-value Method**

Central heating system fuel	SEDBUK <sup>1</sup> %
Mains natural gas	78
LPG	80
Oil	85 <sup>2</sup>

Notes to Table 2:

<sup>1</sup> For boilers for which the SEDBUK is not available, the appropriate seasonal efficiency value from Table 4b of the SAP may be used instead (see paragraphs 0.17–0.18).

<sup>2</sup> For oil-fired combination boilers a SEDBUK of 82%, as calculated by the SAP-98 method, would be acceptable.

### Target U-value method

3. For paragraph 1.20 on page 14 substitute the original text as follows:

“1.20 Where the reference boiler SEDBUK value as indicated in Table 2 is used no adjustment to the Target U-value is necessary. Where the proposed boiler SEDBUK value used is better or worse than the tabulated value, the Target U-value can be eased or should be tightened as appropriate by multiplying the Target U-value by the factor  $f_e$  where:

$$f_e = \frac{\text{Proposed boiler SEDBUK (\%)}}{\text{Reference boiler SEDBUK (\%)}}$$

and for boilers for which the SEDBUK is not available, the appropriate seasonal efficiency value from Table 4b of the SAP may be used instead (see paragraphs 0.17–0.18).”

### Carbon Index Method

4. For paragraph 1.27 on page 14 substitute the original text as follows:

“1.27 The aim in this method is to provide more flexibility in the design of new dwellings whilst achieving similar overall performance to that obtained by following the Elemental Method. The Carbon Index adopted in this method is defined in the SAP, and the requirement would be met if the Carbon Index for the dwelling (or each dwelling in a block of flats or converted building) is not less than 8.0. Examples of dwellings with Carbon Index of 8.0 or more are given in Appendix F.”

## Boiler Efficiency

- 4A. After paragraph 1.35 on page 15 insert the following:

### “Boiler Efficiency

**1.35A** Notwithstanding the boiler SEDBUK value used in establishing compliant fabric specifications (as set out in paragraphs 1.7 and 1.20), reasonable provision for boiler efficiency in actual installations in new dwellings would be:

- a) in the case of boilers fuelled with gas or LPG, a boiler with SEDBUK not less than 86%; and
- b) in the case of boilers fuelled with oil, a boiler with SEDBUK not less than 85%.”

## Appendix E: Target U-value examples

5. Delete paragraph 8 and the substitute Appendix E.

## Amendment to Approved Document L1 (2002)

6. Reinstate Appendix E as it appears on pages 45 to 47 of Approved Document L1 (2002 edition as amended and printed in 3rd impression 2003).