ONLINE VERSION



The Building Regulations 2010

Toxic substances



1992 edition 1992 edition and 2010 ents incorpand 2010 ents

APPROVED DOCUMENT

D1 Cavity insulation

MAIN CHANGES MADE BY THE 2010 AMENDMENTS

This 1992 edition incorporating the 2002 and 2010 amendments reflects the changes made as a result of the Building Regulations 2010 and Building (Approved inspector etc) Regulations 2010. The changes mainly reflect regulation number changes as a result of re-ordering. There have been no amendments to the substantive requirements in Schedule 1 (i.e. Parts A to P) of the Building Regulations.

Please note the simplification of the definition of 'room for residential purposes' in regulation 2 of the Building Regulations 2010. Please also note that L1(c) has now become regulation 40.

Use of guidance

THE APPROVED DOCUMENTS

The Building Regulations 2010 (SI 2010/2214), which came into operation on 1 October 2010, replace the Building Regulations 2000 (SI 2000/2531) and consolidate all subsequent revisions to those regulations. This document is one of a series that has been approved and issued by the Secretary of State for the purpose of providing practical guidance with respect to the requirements of Schedule 1 to and Regulation 7 of the Building Regulations 2010 for England and Wales.

At the back of this document is a list of all the documents that have been approved and issued by the Secretary of State for this purpose.

Approved Documents are intended to provide guidance for some of the more common building situations. However, there may well be alternative ways of achieving compliance with the requirements. **Thus there is no obligation to adopt any particular solution contained in an Approved Document if you prefer to meet the relevant requirement in some other way.**

Other requirements

The guidance contained in an Approved Document relates only to the particular requirements of the Regulations which the document addresses. The building work will also have to comply with the requirements of any other relevant paragraphs in Schedule 1 to the Regulations.

There are Approved Documents which give guidance on each of the parts of Schedule 1 and on Regulation 7.

LIMITATION ON REQUIREMENTS

In accordance with Regulation 8, the requirements in Parts A to K and N of Schedule 1 to the Building Regulations do not require anything to be done except for the purpose of securing reasonable standards of health and safety for persons in or about buildings (and any others who may be affected by buildings or matters connected with buildings).

MATERIALS AND WORKMANSHIP

Any building work which is subject to the requirements imposed by Schedule 1 to the Building Regulations shall be carried out in accordance with regulation 7. Guidance on meeting these requirements on materials and workmanship is contained in Approved Document 7.

Building Regulations are made for specific purposes, primarily the health and safety, welfare and convenience of people and for energy conservation. Standards and other technical specifications may provide relevant guidance to the extent that they relate to these considerations. However, they may also address other aspects of performance or matters which, although they relate to health and safety etc., are not covered by the Building Regulations.

When an Approved Document makes reference to a named standard, the relevant version of the standard to which it refers is the one listed at the end of the publication. However, if this version has been revised or updated by the issuing standards body, the new version may be used as a source of guidance provided it continues to address the relevant requirements of the Regulations.

THE WORKPLACE (HEALTH, SAFETY AND WELFARE) REGULATIONS 1992

The Workplace (Health, Safety and Welfare) Regulations 1992 contain some requirements which affect building design. The main requirements are now covered by the Building Regulations, but for further information see: *Workplace health, safety and welfare. Workplace (Health, Safety and Welfare) Regulations 1992. Approved code of practice and guidance*, 1998. HSE, L 24. ISBN 0 71760 413 6.

The Workplace (Health, Safety and Welfare) Regulations 1992 apply to the common parts of flats and similar buildings if people such as cleaners and caretakers are employed to work in these common parts. Where the requirements of the Building Regulations that are covered by this part do not apply to dwellings, the provisions may still be required in the situations described above in order to satisfy the Workplace Regulations.

The Requirement

This Approved Document deals with the following Requirement from Part D of Schedule 1 to the Building Regulations 2010.

Requirement

Limits on application

Cavity insulation

D1. If insulating material is inserted into a cavity in a cavity wall, reasonable precautions shall be taken to prevent the subsequent permeation of any toxic fumes from that material into any part of the building occupied by people.

Acceptable level of performance

To reduce the risks to the health of persons in buildings formaldehyde fumes given off by urea formaldehyde foams should not penetrate to the occupied parts of buildings to an extent which would give rise to an irritant concentration.

D1

Provisions meeting the performance

Urea formaldehyde (UF) foam

1.1 Insulating materials which give off formaldehyde fumes (either when used or later in normal use) may be used to insulate the cavity in a cavity wall where there is a continuous barrier which will minimise as far as practicable the passage of fumes to the occupiable parts.

Technical solution

1.2 A cavity wall may be insulated with UF foam where:

- a. the **inner leaf** of the wall is built of masonry (bricks or blocks); and
- b. the **suitability** of the wall for foam filling is assessed before the work is carried out in accordance with BS 8208-1:1985 Guide to assessment of suitability of external cavity walls for filling with thermal insulants. Existing traditional cavity construction; and
- c. the **person** carrying out the work holds (or operates under) a current Certificate of Registration of Assessed Capability for the work he is doing; and
- d. the **material** is in accordance with the relevant recommendations of BS 5617:1985 Specifications for urea formaldehyde (UF) foam systems suitable for thermal insulation of cavity walls with masonry or concrete inner and outer leaves; and
- e. the **installation** is in accordance with BS 5618:1985 Code of practice for thermal insulation of cavity walls (with masonry or concrete inner and outer leaves) by filling with urea formaldehyde (UF) foam systems.

Standards referred to

D1

BS 5617:1985

Specification for urea formaldehyde (UF) foam systems suitable for thermal insulation of cavity walls with masonry or concrete inner and outer leaves.

BS 5618:1985

Code of practice for thermal insulation of cavity walls (with masonry or concrete inner and outer leaves) by filling with urea formaldehyde (UF) foam systems. AMD 6262 1990, AMD 7114 1992.

BS 8208-1:1985

Guide to assessment of suitability of external cavity walls for filling with thermal insulants. Existing traditional cavity construction. AMD 4996 1985.

ONLINE VERSION

APPROVED DOCUMENTS

The following documents have been approved and issued by the First Secretary of State for the purpose of providing practical guidance with respect to the requirements of the Building Regulations 2010.

Approved Document A: Structure 2004 edition incorporating 2010 amendments

Approved Document B: Fire safety – Volume 1: Dwellinghouses

2006 edition incorporating 2010 and 2013 amendments

Approved Document B: Fire safety – Volume 2: Buildings other than dwellinghouses 2006 edition incorporating 2007, 2010 and 2013 amendments

Approved Document C: Site preparation and resistance to contaminants and moisture 2004 edition incorporating 2010 amendments

Approved Document D: Toxic substances

1992 edition incorporating 2002 and 2010 amendments

Approved Document E: Resistance to the passage of sound

2003 edition incorporating 2004 and 2010 amendments

Approved Document F: Ventilation 2010 edition incorporating further 2010 amendments

Approved Document G: Sanitation, hot water safety and water efficiency

2010 edition incorporating further 2010 amendments

Approved Document H: Drainage and waste disposal

2002 edition incorporating 2010 amendments

Approved Document J: Combustion appliances and fuel storage systems

2010 edition incorporating further 2010 amendments

Approved Document K: Protection from falling, collision and impact 1998 edition incorporating 2000, 2010 and 2013 amendments

Approved Document L1A: Conservation of fuel and power (New dwellings) 2010 edition incorporating further 2010 amendments

Approved Document L1B: Conservation of fuel and power (Existing dwellings) 2010 edition incorporating further 2010 and 2011 amendments

Approved Document L2A: Conservation of fuel and power (New buildings other than dwellings) 2010 edition incorporating further 2010 amendments

Approved Document L2B: Conservation of fuel and power (Existing buildings other than dwellings)

2010 edition incorporating further 2010 and 2011 amendments

Approved Document M: Access to and use of buildings

2004 edition incorporating 2010 and 2013 amendments

Approved Document N: Glazing – safety in relation to impact, opening and cleaning 1998 edition incorporating 2000 and 2010 amendments

Approved Document P: Electrical safety – Dwellings

2006 edition incorporating 2010 and 2013 amendments

Approved Document to support regulation 7: Materials and workmanship

1999 edition incorporating 2010 and 2013 amendments

ONLINE VERSION

Published by NBS, part of RIBA Enterprises Ltd, and available to purchase from:

RIBA Bookshops Mail Order The Old Post Office, St Nicholas Street Newcastle Upon Tyne, NE1 1RH

Telephone orders/General enquiries: +44 (0)191 244 5557 Fax orders: +44 (0)191 244 5553 Email orders: sales@ribabookshops.com

Or order online at: www.ribabookshops.com

RIBA Bookshops

RIBA Bookshop, 66 Portland Place, London, W1B 1AD. Tel +44 (0)191 244 5557 The Building Centre Bookshop, 26 Store Street, London, WC1E 7BT. Tel +44 (0)20 7692 4040

Toxic substances

ISBN 978 1 85946 203 4 Stock code 56656

© Crown Copyright, 2011

Reprint December 2011, with corrections

Copyright in the typographical arrangement rests with the Crown.

This publication, excluding logos, may be reproduced free of charge in any format or medium for research, private study or for internal circulation within an organisation. This is subject to it being reproduced accurately and not used in a misleading context. The material must be acknowledged as Crown copyright and the title of the publication specified. This document/publication is value added. If you wish to re-use, please apply for a Click-Use Licence for value added material at www.opsi.gov.uk/click-use/system/online/pLogin.asp, or by writing to the Office of Public Sector Information, Information Policy Team, Kew, Richmond, Surrey TW9 4DU. Email: licensing@opsi.gov.uk. If you require this publication in an alternative format please email alternativeformats@communities.gsi.gov.uk.



NSS www.thenbs.com

