BS 8541-2:2011

Incorporating Corrigendum No. 1



BSI Standards Publication

Library objects for architecture, engineering and construction –

Part 2: Recommended 2D symbols of building elements for use in building information modelling

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



raising standards words

This is a preview. Click here to purchase the full publication.

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© BSI 2011

ISBN 978 0 580 77126 2

ICS 01.100.30

The following BSI references relate to the work on this standard: Committee reference B/555 Draft for comment 11/30218810 DC

Publication history

First published September 2011

Amendments issued since publication

Date

Text affected

31 December 2011

See foreword

This is a preview. Click here to purchase the full publication.

Contents

0 Introduction *1*

Section 1: General 3

- 1 Scope 3
- 2 Normative references 3
- **3** Terms and definitions *3*
- 4 Rationale 4
- 5 Design and use of symbolism 6

Section 2: Compendium 9

6 Presentation of the compendium 9 Group 1: Information devices 10 Group 2: Materials in section 19 Group 3: Land use 22 Group 4: Landscape 24 Group 5: Building components 27 Group 6: Pipes, ducts, drains and sewers 32

Broup of ripes, duces, drams and

Bibliography 37

List of figures

Figure 1 – Core Maturity Model 2

- Figure 2 Examples of symbols/elements and constructed symbols 5
- Figure 3 Comparison between representations, simplified representation and

symbols 5

- Figure 4 Symbols and attributes 7
- Figure 5 Symbol and level of detail 8

List of tables

- Table 1.1 Datums, levels and orientation 10
- Table 1.2 Indication of planes and voids 11
- Table 1.3 Conventions for indicating zones 12
- Table 1.4 Termination of dimension lines13
- Table 1.5 Termination of modular coordination lines ^{A)} 14
- Table 1.6 Referencing/cross-referencing 15
- Table 1.7 Handling of ironmongery for annotating schedules
 16
- Table 1.8 Steps and gradients 17
- Table 1.9 Alterations and demolitions 18

Table 2.1 – Wood 19

Table 2.2 – Manufactured materials 19

Table 2.3 – Masonry 20

- Table 2.4 Site-formed materials 21
- Table 3.1 Drawings for statutory applications 22
- Table 3.2 Colouring/marking on Land Registry filed plans 23
- Table 4.1 Ground shaping, surfacing, edges 24
- Table 4.2 Existing trees 25
- Table 4.3 Proposed trees 26
- Table 5.1 Windows in horizontal/vertical section/cut 27
- Table 5.2 Windows in elevation 28
- Table 5.3 Doors and doorsets on plans 29
- Table 5.4 Support, enclosures and holes 30
- Table 5.5 Way-finding signage 31
- Table 6.1 Pipes, ducts, drains and sewers 32
- Table 6.2 Pipe fittings 33

Table 6.3 – Sanitary fittings35Table 6.4 – Manholes and gullies36

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 38, an inside back cover and a back cover.

This is a preview. Click here to purchase the full publication.

Foreword

Publishing information

This part of BS 8541 is published by BSI and came into effect on 30 September 2011. It was prepared by Technical Committee B/555, *Construction design, modelling and data exchange*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 8541 supersedes BS 1192-3:1987, which is withdrawn.

Relationship with other publications

BS 8541 comprises four parts as follows:

- Part 1: Identification and C1 classification C1 ¹⁾
- Part 2 (this part): Recommended 2D symbols of building elements for use in building information modelling
- Part 3: Shape and measurement ¹⁾
- Part 4: Attributes for specification and assessment ¹⁾

Information about this document

The start and finish of text introduced or altered by Corrigendum No. 1 is indicated in the text by tags C_1 and C_1 .

This part of BS 8541 was written to bring the recommendations for construction drawing practice up-to-date and to conform to other national standards of the United Kingdom and with standards of the International Organization for Standardization (ISO) that have been accepted by the UK.

Use of this document

As a guide, this part of BS 8541 takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this part of BS 8541 is expected to be able to justify any course of action that deviates from its recommendations.

Presentational conventions

The provisions in this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is "should".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

The word "should" is used to express recommendations of this standard. The word "may" is used in the text to express permissibility, e.g. as an alternative to the primary recommendation of the clause. The word "can" is used to express possibility, e.g. a consequence of an action or an event.

Notes and commentaries are provided throughout the text of this standard. Notes give references and additional information that are important but do not form part of the recommendations. Commentaries give background information.

¹⁾ In preparation.