

PD 6698:2009



BSI Standards Publication

PUBLISHED DOCUMENT

Recommendations for the design of structures for earthquake resistance to BS EN 1998

This publication is not to be regarded as a British Standard.

bsi.

...making excellence a habit.™

[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 2009

ISBN 978 0 580 61346 3

ICS 91.120.25

The following BSI reference relates to the work on this standard:
Committee reference B/525

Publication history

First published July 2009

Amendments issued since publication

Date	Text affected
------	---------------

Contents

Foreword *ii*

Introduction *1*

- 1** Scope *1*
- 2** Normative references *1*
- 3** Assessing the need for seismic design of structures within the UK *2*
- 4** Seismic hazard in the UK *3*
- 5** Limit states and choice of associated design ground motions in the UK *6*
- 6** Choice of response spectrum *6*
- 7** Additional advice specific to BS EN 1998-1: General rules, seismic actions and rules for buildings *7*
- 8** Additional advice specific to BS EN 1998-2: Bridges *12*
- 9** Additional advice specific to BS EN 1998-4: Silos, tanks and pipelines *16*
- 10** Additional advice specific to BS EN 1998-5: Foundations, retaining structures and geotechnical considerations – Assessment of liquefaction *17*
- 11** Additional advice specific to BS EN 1998-6: Towers, masts and chimneys *18*

Annexes

Annex A (informative) List of clauses subject to National Choice in BS EN 1998-1, BS EN 1998-2, BS EN 1998-4, BS EN 1998-5 and BS EN 1998-6, with cross-references to relevant (sub)clauses of PD 6698 *19*

Bibliography *22*

List of figures

Figure 1 – Seismic hazard map of 475 year return period Peak Ground Acceleration (PGA) on rock *4*

Figure 2 – Seismic hazard map of 2500 year return period Peak Ground Acceleration (PGA) on rock *5*

List of tables

Table 1 – Examples of bridges with high consequence of failure where seismic design might need to be considered *12*

Table A.1 – BS EN 1998-1: General rules, seismic actions and rules for buildings *19*

Table A.2 – BS EN 1998-2: Bridges *20*

Table A.3 – BS EN 1998-4: Silos, tanks and pipelines *20*

Table A.4 – BS EN 1998-5: Foundations, retaining walls and geotechnical considerations *20*

Table A.5 – BS EN 1998-6: Towers, masts and chimneys *21*

Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 24, an inside back cover and a back cover.