DIN EN 1998-1/NA

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Supersedes
DIN EN 1998-1/NA:2011-01

National Annex –
Nationally determined parameters –
Eurocode 8: Design of structures for earthquake resistance – Part 1: General rules, seismic actions and rules for buildings, with CD-ROM, English translation of DIN EN 1998-1/NA:2021-07

Nationaler Anhang –
National festgelegte Parameter –
Eurocode 8: Auslegung von Bauwerken gegen Erdbeben – Teil 1: Grundlagen, Erdbebeneinwirkungen und Regeln für Hochbauten, mit CD-ROM,
Englische Übersetzung von DIN EN 1998-1/NA:2021-07

Annexe nationale –
Paramètres déterminés au plan national –
Eurocode 8: Calcul des structures pour leur résistance aux séismes – Partie 1: Règles générales, actions sismiques et règles pour les bâtiments, avec CD-ROM,
Traduction anglaise de DIN EN 1998-1/NA:2021-07

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In case of doubt, the German-language original shall be considered authoritative.

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A comma is used as the decimal marker.

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Foreword

This document has been prepared by Working Committee NA 005-51-06 AA "Earthquakes; special issues (national mirror committee for CEN/TC 250/SC 8)" of *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering).

This document is the National Annex to DIN EN 1998-1:2010-*Eurocode 8, Design of structures for earthquake resistance — Part 1: General rules, seismic actions and rules for buildings.* This National Annex is an integral part of DIN EN 1998-1:2010-12.

European Standard EN 1998-1 allows national safety parameters, referred to as Nationally Determined Parameters (NDPs), to be specified for a number of points. The NDPs cover alternative verification methods, the provision of individual values and the selection of classes from designated classification systems. The relevant parts of the text are identified in the European Standard by references to the possibility of national choice and are listed in NA.2.1. In addition, this National Annex includes non-contradictory complementary information (NCI) for the application of DIN EN 1998-1:2010-12.

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Amendments

This standard differs from DIN EN 1998-1/NA:2011-01 as follows:

a) the reference hazard parameter has been newly defined;

b) input quantities for the description of seismic actions in the form of the elastic response spectrum have been newly defined for the deep geology ratios;

c) the hazard zone map of the design acceleration has been replaced by a new (with contours changed) map of the spectral response acceleration (rock with v_s = 800 m/s); at the same time, a new definition has been introduced for cases of very low seismicity, where the provisions of the EN 1998 series of standards do not have to be considered as a rule;

d) specific guidance on the use of non-linear static (pushover) analyses has been included;

e) rules on facing walls and non-load-bearing partitions have been added in Annex NA.D;

f) an informative Annex NA.E on the "Seismic hazard maps and parameter values for describing the elastic horizontal response spectrum for T_{NCR} = 975 years and T_{NCR} = 2 475 years" has been included;

g) an informative Annex NA.F on "Explanation of the procedure for determining the seismic action in the case of shear wave velocities below 150 m/s" has been included;

h) the map of geological deep geology classes has been adjusted at the outer boundaries and included in the informative Annex NA.G;

i) a normative Annex NA.H with rules for "simple masonry buildings" has been included;

j) a normative Annex NA.I with rules for "Digital representation of spectral accelerations for the hazard map according to Figure NA.1" has been included;