

DIN EN 1991-1-2/NA



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**National Annex –
Nationally determined parameters –
Eurocode 1: Actions on structures – Part 1-2: General actions – Actions
on structures exposed to fire,
English translation of DIN EN 1991-1-2/NA:2015-09**

Nationaler Anhang –
National festgelegte Parameter –
Eurocode 1: Einwirkungen auf Tragwerke – Teil 1-2: Allgemeine Einwirkungen –
Brandeinwirkungen auf Tragwerke,
Englische Übersetzung von DIN EN 1991-1-2/NA:2015-09

Annexe Nationale –
Paramètres déterminés au plan national –
Eurocode 1: Actions sur les structures – Partie 1-2: Actions générales – Actions sur les
structures exposées au feu,
Traduction anglaise de DIN EN 1991-1-2/NA:2015-09

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

A comma is used as the decimal marker.

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Foreword

This document has been prepared by *Normenausschuss Bauwesen (NABau)* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-52-22 AA “Structural fire design (national mirror committee for ISO/TC 92/SC 2/WG 11 and sub-sections of CEN/TC 250)”.

This document is the National Annex to DIN EN 1991-1-2:2010-12, *Eurocode 1: Actions on structures — Part 1-2: General actions — Actions on structures exposed to fire*.

European Standard EN 1991-1-2 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.

This National Annex also includes non-contradictory complementary information (NCI) for the application of DIN EN 1991-1-2:2010-12, as permitted by Guidance Paper L “Application and use of Eurocodes” of the European Commission, as well as information on the application of the informative annexes of DIN EN 1991-1-2.

The provisions of this National Annex are based on investigations made and on the results of fire design analyses in accordance with DIN 4102-4 and are intended to maintain the national safety level in terms of fire safety.

This National Annex is an integral part of DIN EN 1991-1-2:2010-12.

Annexes AA and BB of this National Annex are normative; Annex CC is informative.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. DIN [and/or DKE] shall not be held responsible for identifying any or all such patent rights.

Amendments

This standard differs from DIN EN 1991-1-2:2010-12 as follows:

- a) Equations (AA.10) and (AA.30) have been amended;
- b) Figure AA.2 has been amended;
- c) Equation (BB.1) has been amended and corresponding explanations have been supplemented;
- d) the RHR_f value for “Library” in Table BB.2 has been amended;
- e) Equations (BB.8a) and (BB.8b) in BB.4 have been supplemented;
- f) Figure BB.1 has been amended;
- g) in Table CC.21, t_u has been amended.

Previous editions

DIN EN 1991-1-2/NA: 2010-12

NA.1 Scope

This National Annex contains national provisions relating to actions on structures for the purposes of structural fire design that are to be taken into consideration when applying DIN EN 1991-1-2:2010-12 in Germany.

This National Annex is only valid in conjunction with DIN EN 1991-1-2:2010-12.

NA.2 National provisions for the application of DIN EN 1991-1-2:2010-12

NA.2.1 General

DIN EN 1991-1-2:2010-12 refers to the option of choosing Nationally Determined Parameters (NDPs) at the following places in the text:

- 2.4(4)
- 3.1(10)
- 3.3.1.1(1)
- 3.3.1.2(1)
- 3.3.1.2(2)
- 3.3.1.3(1)
- 3.3.2(1)
- 3.3.2(2)
- 4.2.2(2)
- 4.3.1(2)

In addition, NA.2.2 includes non-contradictory complementary information for the application of DIN EN 1991-1-2:2010-12. This information is preceded by the letters “NCI”.

For the purposes of this document, the terms and definitions given in DIN EN 1991-1-2 apply.

NA.2.2 National provisions

In the following, the clauses are numbered as in DIN EN 1991-1-2:2010-12.

NCI re 1.2 Normative references

DIN 18230-1, *Structural fire protection in industrial buildings — Part 1: Analytically required fire resistance time*

DIN 18230-3, *Structural fire protection in industrial buildings — Part 3: Values for calculation*

DIN EN 1991-1-2:2010-12, *Eurocode 1: Actions on structures — Part 1-2: General actions — Actions on structures exposed to fire*