

DIN EN 1991-1-7/NA

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**National Annex –
Nationally determined parameters –
Eurocode 1: Actions on structures – Part 1-7: General actions – Accidental
actions,
English translation of DIN EN 1991-1-7/NA:2019-09**

Nationaler Anhang –
National festgelegte Parameter –
Eurocode 1: Einwirkungen auf Tragwerke – Teil 1-7: Allgemeine Einwirkungen –
Außergewöhnliche Einwirkungen,
Englische Übersetzung von DIN EN 1991-1-7/NA:2019-09

Annexe Nationale –
Paramètres déterminés au plan national –
Eurocode 1: Actions sur les structures – Partie 1-7: Actions générales – Actions accidentelles,
Traduction anglaise de DIN EN 1991-1-7/NA:2019-09

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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 Working Committee NA 005-51-02 AA “Actions on structures (national mirror committee for CEN/TC 250/SC 1)” of *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering).

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

This document is the National Annex to DIN EN 1991-1-7:2010-12 *Actions on structures — Part 1-7 General actions — Accidental actions* and to DIN EN 1991-1-7/A1:2014-08 *Actions on structures — Part 1-7: General actions — Accidental actions*, Amendment 1

European Standard EN 1991-1-7 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 1991-1-7:2010-12 and DIN EN 1991-1-7/A1:2014-08.

Amendments

This standard differs from DIN EN 1991-1-7/NA:2010-12 as follows:

- a) modifications have been made to 4.3.1, Impact on supporting substructures;
- b) modifications have been made to 4.5, Accidental actions caused by derailed rail traffic under or adjacent to structures;
- c) modifications have been made to reflect DIN EN 1991-1-7/A1:2014-08;
- d) the standard has been editorially revised.

Previous editions

DIN 1055-9: 2003-08

DIN EN 1991-1-7/NA: 2010-12

NA.1 Scope

This National Annex contains national provisions relating to accidental actions on buildings, civil engineering and infrastructure works, and rules for establishing strategies for safeguarding such structures against accidental actions, that are to be taken into consideration when applying DIN EN 1991-1-7:2010-12 and DIN EN 1991-1-7/A1:2014-08 in Germany.

This National Annex is an integral part of DIN EN 1991-1-7:2010-12 and DIN EN 1991-1-7/A1:2014-08.

NA.2 National provisions for the application of DIN EN 1991-1-7:2010-12 in conjunction with DIN EN 1991-1-7/A1:2014-08

NA.2.1 General

DIN EN 1991-1-7:2010-12 and DIN EN 1991-1-7/A1:2014-08 refer to the option of choosing Nationally Determined Parameters (NDPs) at the following places in the text:

Paragraph	Item
2 (2)	Note: Classification of accidental actions
3.1 (2)	Note 4: Loads
3.2 (1)	Note 3: Levels of acceptable risks
3.3 (2)	Note 1: Defined accidental actions for buildings
3.3 (2)	Note 2: Limitation of localised failure
3.3 (2)	Note 3: Choice of strategies
3.4 (1)	Note 4: Consequence classes
3.4 (2)	Note: Design approaches
4.1 (1)	Note 1: Accidental actions on lightweight structures
4.1 (1)	Note 3: Guidance on the transmission of impact forces to foundations
4.3.1 (1)	Note 1: Design values of vehicle impact forces
4.3.1 (1)	Note 2: Impact forces as a function of the distance from traffic lanes
4.3.1 (1)	Note 3: Structures and parts of structures for which vehicle impact forces do not need to be taken into account
4.3.1 (2)	Note: Alternative impact rules
4.3.1 (3)	Note: Conditions of impact from road vehicles
4.3.2 (1)	Note 1: Clearances, protection measures and design values for superstructures
4.3.2 (1)	Note 3: Reduction factor r_F for impact forces on superstructures
4.3.2 (1)	Note 4: Impact forces on the underside of bridge decks
4.3.2 (2)	Note: Use of F_{dy}
4.3.2 (3)	Note: Dimensions and positions of impact areas
4.4 (1)	Note: Design value of the impact force from forklift trucks
4.5 (1)	Note: Type of rail traffic