

DIN EN 1993-6/NA



ICS 53.020.20; 91.010.30; 91.080.13

Supersedes
DIN EN 1993-6/NA:2010-12

**National Annex –
Nationally determined parameters –
Eurocode 3: Design of steel structures – Part 6: Crane supporting
structures,
English translation of DIN EN 1993-6/NA:2017-11**

Nationaler Anhang –
National festgelegte Parameter –
Eurocode 3: Bemessung und Konstruktion von Stahlbauten – Teil 6: Kranbahnen,
Englische Übersetzung von DIN EN 1993-6/NA:2017-11
Annexe Nationale –
Paramètres déterminés au plan national –
Eurocode 3: Calcul des structures en acier – Partie 6: Chemins de roulement,
Traduction anglaise de DIN EN 1993-6/NA:2017-11

Document comprises 10 pages

Translation by DIN-Sprachendienst.

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

A comma is used as the decimal marker.

Contents

	Page
Foreword	3
1 Scope	4
2 National provisions for the application of DIN EN 1993-6:2010-12	4
2.1 General	4
2.2 National provisions.....	5
NCI re 1.2 Normative references	5
A1 NCI zu 1.5 Terms and definitions	5
NDP re 2.1.3.2(1)P Design working life	5
NCI re 2.3.1 Lower dynamic factors	6
NCI re 2.3.1 Combined action of cranes	6
NCI re 2.3.1 Analysis for safety against seismic action	6
NDP re 2.8(2) P Partial factor $\gamma_{F,test}$ for test loads	6
A1 NCI re 2.8(2) P Crane test loads	6
NCI re 3.1 Steel grades up to S700	6
NDP re 3.2.3(1) Lowest service temperature for indoor crane supporting structures	6
NDP re 3.2.3(2)P Selection of suitable toughness of members under compression	6
NDP re 3.2.4(1) Table 3.2 Target values for Z_{Ed} for through-thickness properties	6
NCI re 3.2.5 Tolerances.....	6
NDP re 3.6.2(1) Information on suitable rails and rail steels	7
NDP re 3.6.3(1) Information on special connecting devices for rails.....	7
A1 NCI re 5.7.3(1) Local bending stresses in the web due to eccentricity of wheel loads	7
A1 NCI re 5.8 (6) Crane tests.....	7
NCI re 5.8 Superposition of local bending stresses in the bottom flange due to wheel loads	7
NDP re 6.1(1) Partial factors γ_{Mi} for resistance in ultimate limit state analysis	7
NDP re 6.3.2.3(1) Alternative assessment method for lateral torsional buckling	8
NCI re 7.3 Load groups – Supplementing the serviceability limit state	8
NDP re 7.3(1) Limits for deformation and displacement	8
A1 NCI re 7.3(1) Limits for deformation and displacement.....	9
NDP re 7.5(1) Partial factor $\gamma_{M,ser}$ for resistance in serviceability limit state.....	9
NCI re 8.5.2 Crane classes for rigid rail fixings	9
NDP re 8.2(4) High-fatigue crane classes.....	9
NCI re 8.5.3 Expansion joints.....	9
NDP re 9.1(2) Limits for number of cycles C_0 without fatigue assessment	10
NDP re 9.2(1)P Partial factor γ_{Ff} for fatigue loads	10
NDP re 9.2(2)P Partial factor γ_{Mf} for fatigue resistance	10
A1 NCI re 9.3.2(3) Simplified approach.....	10
NDP re 9.3.3(1) Crane classes for which bending stresses due to lateral eccentricity can be ignored	10
NDP re 9.4.2(5) Damage equivalence factor λ_{dup} for cranes acting together	10

Foreword

This document has been prepared by Working Committee NA 005-08-01 AA “Crane runways (national mirror committee for CEN/TC 250/SC 3/WG 19)” of the *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering).

This document is the National Annex to DIN EN 1993-6:2010-12, *Eurocode 3: Design of steel structures — Part 6: Crane supporting structures*.

European Standard EN 1993-6 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 1993-6:2010-12.

This National Annex is an integral part of DIN EN 1993-6:2010-12.

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.

Amendments

This standard differs from DIN EN 1993-6/NA:2010-12 as follows:

- a) Amendment A1 has been incorporated.

Previous editions

DIN 120-1: 1936xxxx-11

DIN 120-2: 1936-11

DIN 4132: 1980-02, 1981-02

DIN 4132 Supplement 1: 1981-02

DIN EN 1993-6/NA: 2010-12