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DS/EN 1993-1-13:2024 DK NA:202x

**National Annex to: Eurocode 3 - Design of steel structures -
Part 1-13: Beams with larger web openings**

**Nationalt Anneks til: Eurocode 3 - Stålkonstruktioner -
Del 1-13: Regler for bjælker med store krophuller**

Foreword

Published [måned og år].

This National Annex (NA) to EN 1993-1-13: 2024 forms part of the Danish national annexes to the second generation of Eurocodes.

During a transition period stated in the Building Regulations, both the first generation and the second generation of the Eurocodes and NAs may be applied.

This NA cannot be used in conjunction with the first generation of Eurocodes.

This NA lays down the conditions for the Danish implementation of EN [DS/1993-1-13:2024](#) for construction works in conformity with the Danish Building Regulations; Bygningsreglementet 2018 (BR18). Other parties may bring this NA into force by reference.

The Eurocodes establish the principle that certain parameters are left open for national determination. These parameters are referred to as *Nationally Determined Parameters* (NDP) and specifies the nationally applicable values, classes or methods. Furthermore, the NA may provide *Non-Contradictory, Complementary Information* (NCCI), i.e. additional guidance and alternative methods or values that support the application of the Eurocode without altering or contradicting its provisions.

Further, this National Annex includes NOTES. Notes have the status of guidance and provide additional information intended to assist the understanding or use of text of the national annex.

In conformity with the Danish Building regulations, the verbal forms used in this Eurocode and NA are to be understood as follows:

- “shall” expresses a requirement to be followed
- “should” expresses a recommendation. Alternative approaches could be used if technically justified
- “may” expresses permission within the limits of Danish Building Regulations
- “can” expresses a possibility or capability
- “is/are” expresses a statement of certainty or a fact

This NA includes:

- Foreword;
- An overview of clauses with possible Nationally Determined Parameters (NDPs) and of Non-Contradictory Complementary Information (NCCI);
- National choice to national Determined Parameters (NDP), and Non-Contradictory Complementary Information (NCCI)

Valid versions of the NAs as well as previous versions, addenda can be found at www.bygningsreglementet.dk.

Overview of possible Nationally Determined Parameters (NDPs) and Non-Contradictory Complementary Information (NCCI)

The list below identifies the clauses where Nationally Determined Parameters (NDPs) are possible, and whether a national choice has been made, and if an informative annex is applicable or not applicable. Furthermore, clauses providing complementary information (NCCI) are identified in the list below.

Clause	Subject	Nationally Determined Parameter	Non-Contradictory Complementary Information
1.1.3(1)	Stiffened openings	Unchanged	
8.1.2(1)	Geometric limits for unstiffened web openings	National choice	
8.1.3(2)	Geometric limits for web openings with stiffeners	National choice	
9(5)	Serviceability limit states	Unchanged	
NOTE Unchanged: Recommendations in the Eurocode to be followed. National choice: A National Determined Parameter is chosen and defined. Complementary information: (Non-contradictory) complementary information on how to use the Eurocode. Normative: The Annex shall be used. Informative: The Annex may be used. Not applicable: The Annex cannot be used. No further information: The Eurocode allows further information. No further information is given.			

National Determined Parameter (NDP) and Non-contradictory complementary Information (NCCI)

8.1.2(1) Geometric limits for unstiffened web openings

(NDP)

Limits can be exceeded by using more advanced calculations; however, the relevant failure modes in section 8.1.1 must be taken into account.

8.1.3(2) Geometric limits for web openings with stiffeners

(NDP)

Limits can be exceeded by using more advanced calculations; however, the relevant failure modes in section 8.1.1(1) must be taken into account.