

NATIONAL ANNEX
TO STANDARD
SFS-EN 1993-1-5 EUROCODE 3: DESIGN OF STEEL STRUCTURES.
Part 1-5: Plated structural elements

Preface

This national annex is used together with Standard SFS - EN 1993-1-5:2006.

This national annex sets out:

- a) The national parameters for the following clauses in Standard SFS-EN 1993-1-5 where national selection is permitted:
- 2.2(5)
 - 3.3.(1)
 - 4.3(6)
 - 5.1(2)
 - 6.4(2)
 - 8(2)
 - 9.1(1)
 - 9.2.1(9)
 - 10(1)
 - 10(5).
- b) Guidance for the use of Annexes C and D.

2.2 Effective width models for total analysis

2.2(5):

The recommended value should be used.

3.3 Shear lag phenomenon in a breaking limit situation

3.3(1), Note 1:

The method given in the Note 3 should be used if not otherwise specified in the standards SFS-EN 1993-2...SFS-EN 1993-6 and in their National Annexes.

4.3 Effective cross section

4.3(6):

The value $\varphi_h = 2,0$ should be used.

5.1 Grounds

5.1(1), Note 2:

The recommended values should be used, when the temperature of steel is not more than 400 °C. When the temperature of steel is greater than 400 °C, the value $\eta = 1,00$ should be used.

6.4 Effective length reduction factor χ_F relating to durability

6.4(1):

Additional information is not given in the National Annex. The recommended rules should be applied.

7 Interaction

Explanation:

*SFS-EN 1993-1-5 does not cover interaction between shear force and point load. Additional information on interaction between shear force and point load is given in the Code of Practice No. 20/2008: **Interaction between shear force and point load**, published by Finnish Constructional Steelwork Association.*

8 Enclosure denting caused by bending of the flange in the direction of the enclosure

8(2):

Additional information is not given in the National Annex.

9.1 General

9.1(1):

Additional information is not given in the National Annex.

9.2 Normal tensions

9.2.1(9):

The recommended value should be used.

10. Reduced tension method

10(1), Note 2:

Limits of the application for this method are not given in the National Annex. It is recommended to use the method given in the sections 4...7.

10(5), Note 2:

Additional information is not given in the National Annex.

Annex C:

FEM -calculations

Annex C may be used.

C.2(1):

The FE-method to be used should be reliable verified. The user of FE-method should have experince enough.

C.5(2), Note 1:

The recommended value should be used.

C.8(1), Note 1:

The recommended value should be used if the use of lower value is not required based on other reasons.

C.9(3):

Partial factors given in the National Annexes of various parts of standard SFS-EN 1993 should be used.

Annex D

Staffs where the enclosures are vertically folded

Annex D may be used.

D.2.2(2):

Additional information is not given in the National Annex. The redommended formula should be used.