

**NATIONAL ANNEX TO
STANDARD**

SFS-EN 1993-6 EUROCODE 3: DESIGN OF STEEL STRUCTURES

Part 6: Crane supporting structures

Foreword

This National Annex is used together with Standard SFS-EN 1993-6 + AC.

This National Annex sets out:

a) National parameters for the following paragraphs in Standard SFS-EN 1993-6 + AC where national choice is permitted:

2.1.3.2(1)P

2.8(2)P

3.2.3(1)

3.2.3(2)P

3.2.4(1) Table 3.2

3.6.2(1)

3.6.3(1)

6.1(1)

6.3.2.3(1)

7.3(1)

7.5(1)

8.2(4)

9.1(2)

9.2(1)P

9.2(2)P

9.3.3(1)

9.4.2(5) .

b) Guidance on the use of Informative Annex A.

2.1.3.2 Design working life

2.1.3.2(1)P

The design working life should be determined project by project.

2.8 Crane tests

2.8(2)P

The recommended value should be used.

3.2.3 Fracture toughness

3.2.3(1)

The lowest service temperature should be determined project by project taking into account the design life time of the structure.

3.2.3(2)P

The recommended procedure should be used. $\sigma_{Ed} = 0,25 f_y(t)$ should be used for component under compression.

3.2.4 Through thickness properties

3.2.4(1), Note 2

The values given in the table 3.2 should be used.

3.6.2 Rail steels

3.6.2(1)

Additional information is not given. The information for rails and rail steels should be given in the project specification.

3.6.3 Special connecting devices for rails

3.6.3(1)

Additional information is not given. Information for special connecting devices should be given in the project specification.

6.1 General

6.1(1)

The recommended values should be used.

6.3.2.3 Assessment methods

6.3.2.3(1)

Alternative assessment methods are not given. The method given in Annex A may be used. In the determination of χ_{LT} National Annex of standard SFS-EN 1993-1-1 should be taken into account.

7.3 Limits for deformations and displacements

7.3(1)

The recommended values should be used if lower values are not required by the use of the cranes or by other reasons (for example chauffeur of the crane moves with the crane). Limit for rotation of the crane runway beam should be determined, if appropriate.

7.5 Reversible behaviour

7.5(1)

The recommended value should be used.

8.2 Welded connections

8.2(4)

The recommended values should be used.

9.1 Requirements for fatigue assessment

9.1(2)

The recommended value should be used.

9.2 Partial factors for fatigue

9.2(1)P

The recommended value should be used.

9.2(2)P

The rules given in the National Annex for standard SFS-EN 1993-1-9 should be used.

9.3.3 Local stresses due to the wheel loads on the top flange

9.3.3(1)

The recommended crane classes should be used.

9.4.2 Multiple crane actions

9.4.2(5)

The recommended values should be used.

Annex A

Alternative assessment method for lateral - torsional buckling

Annex A may be used. In the determination of χ_{LT} National Annex of standard SFS-EN 1993-1-1 should be taken into account.