ANNEX 41

NATIONAL ANNEX
TO STANDARD
SFS-EN 1993-1-12 EUROCODE 3: DESIGN OF STEEL STRUCTURES
Part 1-12: Additional rules for the extension of SFS-EN 1993 up to steel grades S700

Preface

This Annex is used together with Standard SFS-EN 1993-1-12:2007.

This National Annex sets out:

a) National parameters for the following paragraphs in Standard SFS-EN 1993-1-12 where national choice is permitted:

- **2.1** (3.1(2))
- **2.1** (3.2.2(1))
- **2.1** (5.4.3(1))
- **2.1** (6.2.3(2))
- **2.8** (4.2(2))
- **3(1).**

2.1 Additional rules to EN 1993-1-1

3.1(2) Additional note:

Steel grades given in table 1 and 2 and recommended values to them should be used. In additions those steel grades for which valid product approval is available may be used. In the valid product approval reference should be made to the clause 2.1 (3.1(2)) of the National Annex of SFS-EN 1993-1-12 and it should be stated in the product approval that these steel grades may be used according to SFS-EN 1993-1-12 and its National Annex.

3.2.2(1) Addtional note:

The recommended values should be used.

5.4.3(1) Additional rule:

Additional rules are not given. In the design National Annex for SFS-EN 1993-1-5 should also be taken into account.

6.2.3(2) Additional rule:

The value $\gamma_{M12} = \frac{f_u}{f_y}\gamma_{M0}$ should be used, where γ_{M0} should be determined according to National Annex of SFS-EN 1993-1-1.

2.8 Additional rules to EN 1993-1-8

Description:

For steel grades higher than S460 but no more than S700, the yield stress of the base material f_y *should be multiplied by factor* k_{HAZ} *immediately beside of weld (on heat affected zone also known as HAZ) as follows, if other values are not experimentally shown to be more correct.*

- $k_{HAZ} = 1$ *when* $f_y \le 500$ *N/mm²*
- $k_{HAZ} = 0.85$ *when* $f_y = 700$ *N/mm²*.

Intermediate values may be interpolated linearly.

The reduction mentioned above should not be applied in the case of 2.8/7.1.1(4) of SFS-EN 1993-1-12.

4.2(2) Additional rule:

Restrictions are not given.

3 Additional rules to application parts EN 1993-2 ... EN 1993-6

3(1)
Restrictions are not given.