

ANNEX 10

**NATIONAL ANNEX**

**TO STANDARD**

**SFS-EN 1993-1-2 EUROCODE 3: DESIGN OF STEEL STRUCTURES.**

**Part 1-2: Structural fire design**

**Preface**

This national annex is used together with Standard SFS - EN 1993-1-2: 2005.

This national annex sets out:

- a) The national parameters for the following paragraphs in Standard SFS-EN 1993-1-2 where national selection is permitted:

- 1.1.2 (6)
- 2.1.3 Explanation
- 2.3 (1)
- 2.3 (2)
- 2.4.2 (3)
- 4.1 (2)
- 4.2.3.6 (1) Note 2
- 4.2.4 (2)

- b) Guidance for the use of informative Annexes C, D and E

### 1.1.2 Scope of Standard EN 1993-1-2

#### 1.1.2 (6)

*Explanation:*

The rules in Standard SFS-EN 1993-1-2 and its National Annex may be used also for steels given in clause 3.1(2) of National Annex to Standard SFS-EN 1993-1-1.

### 2.1.3 Parametric fire exposure

*Explanation:*

For separating function Standard SFS-EN 1994-1-2 and its National Annex may be used.

### 2.3 Design values of material properties

#### 2.3(1)

The value  $\gamma_{M,fi} = 1.0$  should be used.

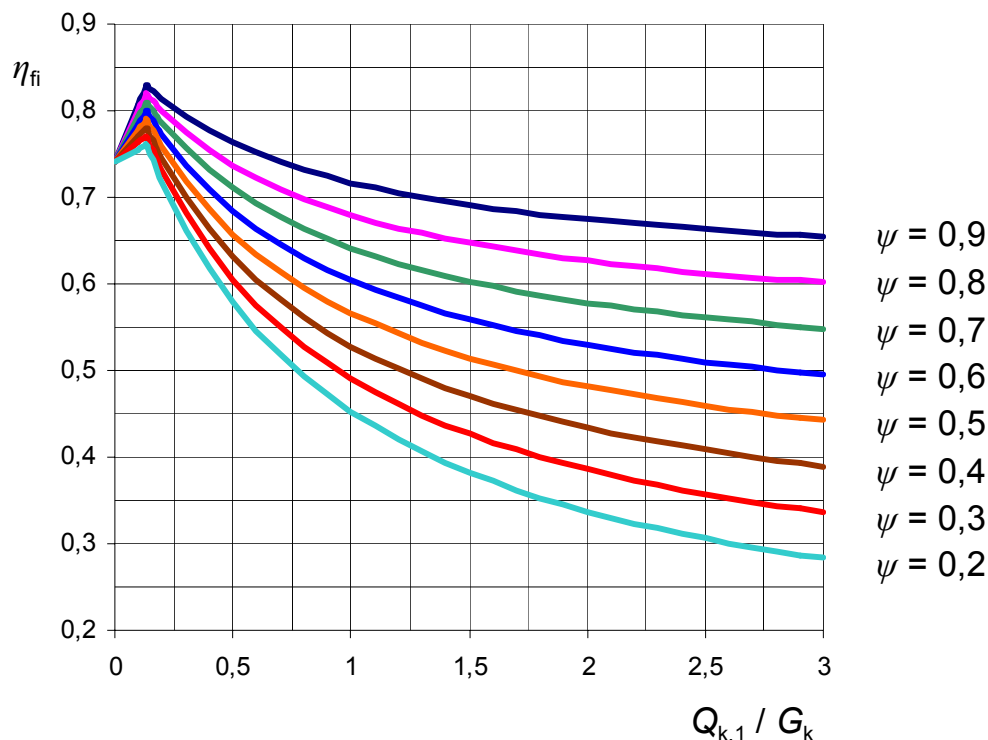
#### 2.3(2)

The value  $\gamma_{M,fi} = 1.0$  should be used

### 2.4.2 Member analysis

#### 2.4.2 (3), Note 1

Partial factors to be used should be according to National Annex of Standard SFS-EN 1990. Original Figure 2.1 is replaced by the new Figure 2.1.



**Figure 2.1 (FI)** Variation of the reduction factor  $\eta_{fi}$  with the load ratio  $Q_{k,1}/G_k$  based on the combination rules of loadings according to National annex of Standard SFS-EN 1990.

## 4.1 General

### 4.1(2)

Advanced calculation method may be used. Detailed guidance is not given. See also National Annex for Standard SFS-EN 1991-1-2.

### 4.2.3.6 Members with Class 4 cross-sections

#### 4.2.3.6(1), Note 2

The value  $\theta_{\text{crit}} = 450 \text{ }^\circ\text{C}$  may be used together with the value  $k_{p0,2,\theta} = 0,59$ .  $k_{p0,2,\theta}$ , see Annex E.

### 4.2.4 Critical temperature

#### 4.2.4(2)

Default values are not given.

## Annex C

### Stainless steel

Annex C may be used.

*Explanation:*

*For steel grades 1.4318, 1.4318 C850 and 1.4571 C850 the values at elevated temperatures given in the publication "Euro Inox: Design Manual for Structural Stainless Steel, Third Edition, Brussel 2006." may be used.*

## Annex D

### Joints

Annex D may be used.

## Annex E

### Class 4 cross-sections

Annex E may be used.