

## ANNEX 3

### **NATIONAL ANNEX TO STANDARD**

### **SFS-EN 1991-1-2 EUROCODE 1: ACTIONS ON STRUCTURES Part 1-2: General actions. Actions on structures exposed to fire**

#### **Preface**

This National Annex is used together with standard SFS-EN 1991-1-2:2002.

This National Annex sets out:

a) National parameters for the following paragraphs in standard EN 1991-1-2 where national selection is permitted:

- 2.4(4)
- 3.1(10)
- 3.3.1.2(1)
- 3.3.1.3(1)
- 3.3.2(2)
- 4.2.2(2)
- 4.3.1(2)

b) Guidance on the use of the Informative Annexes A, B, C, D, E, F and G.

## **2.4 Temperature analysis**

2.4(4)

### **NOTE 1**

In Finland, the period of time is determined in accordance with Part E1 of the National Building Code of Finland. The procedure of Annex F is not introduced in Finland.

### **NOTE 2**

In Finland, the regulations and guidelines in Part E1 of the National Building Code of Finland concerning the design based on design fire scenarios are complied with.

## **3.1 General rules**

3.1(10)

When a building is designed and built complying with the fire classes and numerical values in the regulations and guidelines of Part E1 of the National Building Code of Finland, a temperature-time curve of standard fire in accordance with paragraph 3.2.1(1) is used. When a building is designed and built based on design fire scenarios covering the likely situations in the said building, natural fire models or other nominal temperature-time curves may be used.

### **3.3.1.2 Compartment fires**

3.3.1.2(1)

#### **NOTE 1**

No separate procedure for calculating the heating conditions is specified.

### **3.3.1.3 Localised fires**

3.3.1.3(1)

No procedure for calculating heating conditions is specified.

### **3.3.2 Advanced fire models**

3.3.2(2)

No procedure for calculating heating conditions is specified.

## **4.2.2 Additional actions**

4.2.2(2)

No separate specifications concerning selection of additional actions are given.

### **4.3.1 General rule**

#### 4.3.1(2)

In Finland, the value  $\psi_{2,1} Q_1$  is used for imposed loads. The frequent value  $\psi_{1,1} Q_1$  is used for snow, ice and wind loads (in accordance with the National Annex to SFS-EN 1990).

### **Annex A Parametric temperature-time curves**

Annex A is introduced in Finland.

### **Annex B Thermal actions for external members – simplified calculation method**

Annex B is introduced in Finland.

#### *Explanation:*

*There are errors in the equations B12 and B19 of Annex B of the English version of the standard. These have been corrected in the Finnish translation of the standard with notes by the translator.*

### **Annex C Localised fires**

Annex C is introduced in Finland.

### **Annex D Advanced fire models**

Annex D is introduced in Finland.

### **Annex E Fire load densities**

Section E.4 "Rate of heat release Q" can be used. Other parts of Annex E are not introduced in Finland.

### **Annex F Equivalent time of fire exposure**

Annex F is not introduced in Finland.

## **Annex G**

### **Configuration factor**

Annex G is introduced in Finland.