

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.