

CYS National Annex to CYS EN 1991-1-2:2002

Eurocode 1: Actions on structures

Part 1-2: General actions – Actions on structures exposed to fire

Prepared by
Eurocodes Committee, Scientific and Technical Chamber
of Cyprus under a Ministry of Interior's Programme



NATIONAL ANNEX
TO
CYS EN 1991-1-2:2002 Eurocode 1: Actions on Structures

**Part 1-2: General Actions – Actions on Structures Exposed
to fire**

**This National Annex has been approved by the Board of Governors of the
Cyprus Organisation for Standardisation on 11/06/2010.**

INTRODUCTION

This national Annex has been prepared by the Eurocodes Committee of the Technical Chamber of Cyprus, which was commissioned by the Ministry of Interior of the republic of Cyprus.

NA 1 SCOPE

This National Annex is to be used together with CYS EN 1991-1-2:2002.

This National Annex gives:

- (a) National determined parameters for the following clauses of CYS EN 1991-1-2:2002 where national choices is allowed (see Section NA2)
- 2.4(4)
 - 3.1(10)
 - 3.3.1.1(1)
 - 3.3.1.2(1)
 - 3.3.1.2(2)
 - 3.3.1.3(1)
 - 3.3.2(1)
 - 3.3.2(2)
 - 4.2.2(2)
 - 4.3.1(2)
- (b) Guidance on use of the informative Annexes A, B, C, D, E, F and G (see Section NA 3)
- (c) References to non-contradictory complementary information applicable to buildings and civil engineering works (see Section NA 4).

NA 2 NATIONALLY DETERMINED PARAMETERS

NA 2.1 Clause 2.4(4) Temperature Analysis

The specific period of time should be obtained from annex E

NA 2.2 Clause 3.1(10) Thermal action for temperature analysis

Gas temperature should adopted as nominal temperature–time curves according to 3.2

NA 2.3 Clause 3.3.1.1(1) Simplified fire models

For the calculation of the design fire load density q_{fd} , the method given in Annex E should be used.

NA 2.4 Clause 3.3.1.2(1) Compartment fire gas temperature

No more information

NA 2.5 Clause 3.3.1.2(2) Compartment fire gas temperature

For external members exposed to fire through openings in the façade, the method for calculation the heating condition is given in Annex B.

NA 2.6 Clause 3.3.1.3(1) Localized Fires

Annex C should be used for determination of thermal action from localized fires

NA 2.7 Clause 3.3.2(1) Advanced fire models

An advanced fire models can also be used according to above clause.

NA 2.8 Clause 3.3.2(2) Fire model that should be used

The one-zone models assuming a uniform time dependent temperature distribution in the compartment should be used. The calculation method is given in Annex D

NA 2.9 Clause 4.2.2(2) Mechanical action for structural analysis. Additional actions

No more information.

NA 2.10 Clause 4.3.1(2) Combination rules for actions

The representative value of the variable action Q_1 should be considered as the quasi-permanent value $\psi_{2,1} Q_1$.

NA 3 DECISION ON USE OF THE INFORMATIVE ANNEXES A, B, C, D, E, F AND G

NA 3.1 Annex A

Annex A may be used

NA 3.2 Annex B

Annex B may be used

NA 3.3 Annex C

Annex C may be used

NA 3.4 Annex D

Annex D may be used

NA 3.5 Annex E

Annex E may be used

NA 3.6 Annex F

Annex F may be used

NA 3.7 Annex G

Annex G may be used

NA 4 REFERENCES TO NON-CONTRADICTORY COMPLEMENTARY INFORMATION

None

CYPRUS ORGANISATION FOR STANDARDISATION

Limassol Avenue and Kosta Anaxagora 30,

2nd & 3rd Floor, 2014 Nicosia, Cyprus

P.O.BOX.16197, 2086 Nicosia, Cyprus

Tel: +357 22 411411 Fax: +357 22 411511

E-Mail: cystandards@cys.org.cy

Website: www.cys.org.cy
