NATIONAL ANNEX TO CYS EN 1993-1-2:2005 (Including AC:2009)

Eurocode 3: Design of steel structures

Part 1-2: General rules – Structural fire design

CYPRUS ORGANISATION FOR STANDARDISATION

NATIONAL ANNEX

TO

CYS EN 1993-1-2:2005+AC:2009

Eurocode 3: Design of steel structures

Part 1-2: General rules – Structural fire design

This National Annex has been approved by the Board of Directors of the Cyprus Organisation for Standardisation (CYS) on 14.06.2019.

INTRODUCTION

This National Annex has been prepared by the CYS TC 18 National Standardisation Technical Committee of the Cyprus Organisation for Standardisation. (CYS).

NA 1 SCOPE

This National Annex is to be used in conjunction with CYS EN 1993-1-2:2005+AC:2009. Any reference in the rest of this text to CYS EN 1993-1-2:2005 means the above document.

This National Annex gives:

(a) Nationally Determined Parameters described in the following clauses of CYS EN 1993-1-2:2005 (see Section NA 2):

- 2.3 (1)
- 2.3 (2)
- 4.1 (2)
- 4.2.3.6 (1)
- 4.2.4 (2)

(b) Decisions on the use of CYS EN 1993-1-2:2005 informative annexes (see Section NA 3)

(c) References to non-contradictory complementary information to assist the user to apply CYS EN 1993-1-2:2005 (see Section NA 4)

NA 2 NATIONALLY DETERMINED PARAMETERS

NA 2.1   Clause 2.3 (1) Design values of material properties

The value of $\gamma_{M,fi}$ is 1,0.

NA 2.2   Clause 2.3 (2) Design values of material properties

The value of $\gamma_{M,fi}$ is 1,0.

NA 2.3   Clause 4.1 (2) General

Advanced calculation models may be used at the discretion of the designer.

NA 2.4   Clause 4.2.3.6 (1) Members with Class 4 cross-sections

The value of θ_{crit} is 350°C.

NA 2.5   Clause 4.2.4 (2) Critical temperature

Table 4.1 (CYS) specifies the critical temperatures $\theta_{a,cr}$ for values of μ_0 from 0,22 to 0,80 of Table 4.1 of CYS EN 1993-1-2:2005.

Table 4.1 (CYS): Critical temperature $\theta_{a,cr}$ for values of the utilisation factor μ_0

μ_0	$\theta_{a,cr}$	μ_0	$\theta_{a,cr}$	μ_0	$\theta_{a,cr}$
0,22	711	0,42	612	0,62	549
0,24	698	0,44	605	0,64	543
0,26	685	0,46	598	0,66	537
0,28	674	0,48	591	0,68	531
0,30	664	0,50	585	0,70	526
0,32	654	0,52	578	0,72	520
0,34	645	0,54	572	0,74	514
0,36	636	0,56	566	0,76	508
0,38	628	0,58	560	0,78	502
0,40	620	0,60	554	0,80	496

NA 3 DECISION ON THE USE OF INFORMATIVE ANNEXES

NA 3.1   Annex C

Annex C may be used.

NA 3.2   Annex D

Annex D may be used.

NA 3.3   Annex E

Annex E may be used.

NA 4 REFERENCES TO NON-CONTRADICTORY COMPLEMENTARY INFORMATION

None

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**NA to
CYS EN
1993-1-2:2005
(Including
AC:2009)**

CYPRUS ORGANISATION FOR STANDARDISATION

Limassol Avenue and Kosta Anaxagora 30,

2nd & 3rd Floor, 2014 Strovolos, 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*