

**NATIONAL ANNEX
TO
CYS EN 1993-1-2:2005
Eurocode 3: Design of steel structures
Part1-2: General rules – Structural fire design**

Public Enquiry Draft

Period of Enquiry

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Readers are advised that this is a draft document and subject to change

**Prepared by: Eurocodes Committee
Ministry of Interior / Technical Chamber of Cyprus**

PUBLIC ENQUIRY DRAFT

National Annex to CYS EN 1993-1-2:2005 Eurocode 3: Design of Steel Structures
Part 1-2: General rules – Structural fire design

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 in conjunction with CYS EN 1993-1-2:2005.

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 recommended value of $\gamma_{M,fi}=1,0$ should be used.

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

The recommended value of $\gamma_{M,fi}=1,0$ should be used.

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 recommended value of $\theta_{crit}=350^{\circ}\text{C}$ should be used.

NA 2.5 Clause 4.2.4 (2) Critical temperature

The critical temperatures $\theta_{a,cr}$ for values of μ_0 from 0,22 to 0,80 are given in Table NA1 (Table 4.1 of CYS EN 1993-1-2).

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**Table NA1: Critical temperature $\theta_{a,cr}$ for values of the utilisation factor μ_0
(Table 4.1 of CYS EN 1993-1-2)**

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