

***NATIONAL ANNEX
TO
CYS EN 1993-1-4:2006
(Including A1:2015+A2:2020)***

***Eurocode 3: Design of
steel structures***

***Part 1-4: General rules
– Supplementary rules
for stainless steels***



NATIONAL ANNEX
TO
CYS EN 1993-1-4:2006+A1:2015+A2:2020
Eurocode 3: Design of steel structures
Part 1-4: General rules – Supplementary rules for stainless
steels

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INTRODUCTION

This National Annex has been prepared by the CYS TC18 National Standardisation Committee of the Cyprus Organisation for Standardisation. (CYS).

NA 1 SCOPE

This National Annex is to be used in conjunction with CYS EN 1993-1-4:2006 (+A1:2015+A2:2020). Any reference in the rest of this document to CYS EN 1993-1-4:2006 means the above document.

This National Annex gives:

- (a) Nationally Determined Parameters described in the following clauses of CYS EN 1993-1-4:2006 (see Section NA 2):
 - 2.1.4 (2)
 - 2.1.5 (1)
 - 5.1 (2)
 - 5.5 (1)
 - 5.6 (2)
 - 6.1 (2)
 - 6.2 (3)
 - 7 (1)
 - A.2 (8)
 - A.3, Table A.4
- (b) Decisions on the use of CYS EN 1993-1-4:2006 informative annexes (see Section NA 3)
- (c) References to non-contradictory complementary information to assist the user to apply CYS EN 1993-1-4:2006 (see Section NA 4)

NA 2 NATIONALLY DETERMINED PARAMETERS

NA 2.1 Clause 2.1.4 (2) Fracture toughness

No further information is provided in this National Annex.

NA 2.2 Clause 2.1.5 (1) Through-thickness properties

No further information is provided in this National Annex.

NA 2.3 Clause 5.1 (2) General

The values for the partial factors γ_M are:

$$\gamma_{M0} = 1,1$$

$$\gamma_{M1} = 1,1$$

$$\gamma_{M2} = 1,25$$

NA 2.4 Clause 5.5 (1) Uniform members in bending and axial compression

The values for the interaction factors k_y , k_z , k_{LT} are:

$$k_y = 1,0 + 2(\bar{\lambda}_y - 0,5) \frac{N_{Ed}}{N_{b,Rd,y}} \quad \text{but } 1,2 \leq k_y \leq 1,2 + 2 \frac{N_{Ed}}{N_{b,Rd,y}}$$

$$k_z = 1,0 + 2(\bar{\lambda}_z - 0,5) \frac{N_{Ed}}{(N_{b,Rd})_{\min 1}} \quad \text{but } 1,2 \leq k_z \leq 1,2 + 2 \frac{N_{Ed}}{(N_{b,Rd})_{\min 1}}$$

$k_{LT}=1,0$

No other interaction formulae as alternatives to equations 5.13 to 5.17 of CYS EN 1993-1-4:2006 are provided in this National Annex.

NA 2.5 Clause 5.6 (2) Shear resistance

The value of η is 1,20.

NA 2.6 Clause 6.1 (2) General

No further information is provided in this National Annex.

NA 2.7 Clause 6.2 (3) Bolted connections

The following recommended values of α shall be used:

- if the shear plane passes through unthreaded portion of the bolt, $\alpha=0,6$
- if the shear plane passes through the threaded portion of the bolt, $\alpha=0,5$

NA 2.8 Clause 7 (1) Design assisted by testing

No further information is provided in this National Annex.

NA 2.9 Clause A.2 (8) Selection of materials

A less severe CRF may be chosen when validated local operating experience or test data support such a choice.

NA 2.10 Clause A.3, Table A.4 Swimming pool environments

No further information is provided in this National Annex.

NA 3 DECISION ON THE USE OF INFORMATIVE ANNEXES

NA 3.1 Annex B

Annex B may be used.

NA 3.2 Annex C

Annex C may be used.

NA 4 REFERENCES TO NON-CONTRADICTIONARY COMPLEMENTARY INFORMATION

None

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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
