

CYS National Annex to CYS EN 1993-1-4:2006

Eurocode 3: Design of steel structures

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

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



NATIONAL ANNEX
TO
CYS EN 1993-1-4:2006
Eurocode 3: Design of steel structures
Part1-4: General rules – Supplementary rules for stainless
steels

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 in conjunction with CYS EN 1993-1-4:2006.

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 (2)
 - 5.6 (2)
 - 6.1 (2)
 - 6.2 (3)
- (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 following recommended values for the partial factors γ_M should be used:

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

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

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

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

The following recommended values for the interaction factors k_y , k_z , k_{LT} should be used:

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

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

$$k_{LT} = 1,0$$

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

NA 2.5 Clause 5.6 (2) Shear resistance

The recommended value of $\eta=1,20$ should be used.

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 should 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 3 DECISION ON THE USE OF INFORMATIVE ANNEXES

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 4 REFERENCES TO NON-CONTRADICTORY COMPLEMENTARY INFORMATION

None

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