

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

**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 1993-1-4:2006 Eurocode 3: Design of steel structures  
Part 1-4: General rules – Supplementary rules for stainless steels

## 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  $\gamma_M$  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:

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

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

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

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  $\alpha$  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