

***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  $\gamma_M$  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  $\eta$  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  $\alpha$  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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