

# **CYS National Annex to CYS EN 1991-1-6:2005**

## **Eurocode 1: Actions on structures**

### **Part 1-6: General actions –**

### **Actions during execution**

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



**NATIONAL ANNEX**  
**TO**  
**CYS EN 1991-1-6:2005 Eurocode 1: Actions on structures**  
**Part 1-6: General actions – Actions during execution**

**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 together with CYS EN 1991-1-6:2005.

This National Annex gives:

(a) Nationally determined parameters for the following clauses of CYS EN 1991-1-6:2005 where National choice is allowed (see Section NA 2)

- 1.1 (3)
- 2.2 (4)
- 3.1 (1)P
- 3.1 (5) NOTE 1
- 3.1 (5) NOTE 2
- 3.1 (7)
- 3.1 (8) NOTE 1
- 3.3 (2)
- 3.3 (6)
- 4.9 (6) NOTE 2
- 4.10 (1)P
- 4.11.1 (2) Table 4.1
- 4.11.2 (1)
- 4.12 (1)P NOTE 2
- 4.12 (2)
- 4.12 (3)
- 4.13 (2)
- A1.1 (1)
- A1.3 (2)
- A2.3 (1)
- A2.4 (2)
- A2.4 (3)
- A2.5 (2)
- A2.5 (3)

(b) Decision on the use of the Informative Annex B (see Section NA 3)

(c) References to non-contradictory complementary information to assist the user to apply CYS EN 1991-1-6:2005. In this National Annex such information is provided for the following clauses in CYS EN 1991-1-6:2005 (see Section NA 4)

## NA 2 NATIONALLY DETERMINED PARAMETERS

### NA 2.1 Clause 1.1 (3) Design rules for auxiliary construction works

No further information is provided.

**NA 2.2 Clause 2.2 (4) Positioning of construction loads classified as free**

No further information is provided.

**NA 2.3 Clause 3.1 (1)P Design situation corresponding to storm conditions**

The accidental design situation is adopted for wind actions during storm conditions, as recommended.

**NA 2.4 Clause 3.1 (5) NOTE 1 Return periods for the determination of the characteristic values of variable actions during execution**

The recommended return periods of Table 3.1 are adopted.

**NA 2.5 Clause 3.1 (5) NOTE 2 Minimum wind speed during execution**

The recommended minimum wind velocity of 20m/s for durations of up to 3 months is adopted. No provisions are specified for other durations.

**NA 2.6 Clause 3.1 (7) Rules for the combination of snow loads and wind actions with construction loads**

No further information is provided.

**NA 2.7 Clause 3.1 (8) NOTE 1 Rules concerning imperfections in the geometry of the structure**

No further information is provided.

**NA 2.8 Clause 3.3 (2) Criteria associated with serviceability limit states during execution**

No further information is provided.

**NA 2.9 Clause 3.3 (6) Serviceability requirements for auxiliary construction works**

No further information is provided.

**NA 2.10 Clause 4.9 (6) NOTE 2 Loads and water levels for floating ice**

No further information is provided.

**NA 2.11 Clause 4.10 (1)P Definition of actions due to atmospheric icing**

No further information is provided.

**NA 2.12 Clause 4.11.1 (2) Table 4.1 Recommended characteristic values of construction loads  $Q_{ca}$ ,  $Q_{cb}$  and  $Q_{cc}$**

The recommended characteristic values given for construction loads  $Q_{ca}$  and  $Q_{cb}$  in the notes of Table 4.1 are adopted. No further provisions are specified.

**NA 2.13 Clause 4.11.2 (1) Construction loads during the casting of concrete**

The recommendations given in NOTE 3 are adopted. No further provisions are specified.

**NA 2.14 Clause 4.12 (1)P NOTE 2 Dynamic effects due to accidental actions**

The recommended value of 2 for the dynamic amplification factor is adopted. Dynamic analysis is needed in specific cases.

**NA 2.15 Clause 4.12 (2) Dynamic effects due to falls of equipment**

No further information is provided.

**NA 2.16 Clause 4.12 (3) Design values of human impact loads**

No further information is provided.

**NA 2.17 Clause 4.13 (2) Seismic actions**

No further information is provided.

**NA 2.18 Annex A 1 Clause A1.1 (1) Representative values of the variable actions due to construction loads**

The recommended value of  $\psi_0=1.0$  is adopted.

The minimum value that can be selected for  $\psi_2$  is 0.2, as recommended.

**NA 2.19 Annex A 1 Clause A1.3 (2) Characteristic values of equivalent horizontal forces**

Equivalent horizontal forces are set to 3% of the vertical loads from the most unfavourable combination of actions, as recommended.

**NA 2.20 Annex A2 Clause A2.3 (1) Design values of vertical deflections for the incremental launching of bridges**

The recommendations given in NOTE 1 are adopted.

**NA 2.21 Annex A 2 Clause A2.4 (2) Reduction of the characteristic value of snow loads**

The reduced characteristic value for snow load is set to 30% of the characteristic value for permanent design situations, as recommended.

**NA 2.22 Annex A2 Clause A2.4 (3) Reduced values of characteristic snow loads for the verification of static equilibrium**

The recommended value of  $x=75\%$  is adopted. No further provisions are specified.

**NA 2.23 Annex A2 Clause A2.5 (2) Design values of horizontal friction forces**

The recommended value of  $x=10\%$  is adopted.

**NA 2.24 Annex A 2 Clause A2.5 (3) Determination of friction coefficients  $\mu_{\min}$  and  $\mu_{\max}$**

The recommended values of  $\mu_{\min}=0$  and  $\mu_{\max}=0.04$  are adopted, unless more accurate values are available from tests for movements on very low friction surfaces.

**NA 3 DECISION ON USE OF THE INFORMATIVE ANNEX B**

**NA 3.1 Annex B**

Annex B may be used.

**NA 4 REFERENCES TO NON-CONTRADICTIONARY COMPLEMENTARY INFORMATION**

None



**CYPRUS ORGANISATION FOR STANDARDISATION**

Limassol Avenue and Kosta Anaxagora 30,

2<sup>nd</sup> & 3<sup>rd</sup> Floor, 2014 Nicosia, Cyprus

P.O.BOX.16197, 2086 Nicosia, Cyprus

Tel: +357 22 411411 Fax: +357 22 411511

E-Mail: [cystandards@cys.org.cy](mailto:cystandards@cys.org.cy)

Website: [www.cys.org.cy](http://www.cys.org.cy)

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