

NATIONAL ANNEX

TO

CYS EN

1991-1-6:2005

(Including AC:2013)

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

***Part 1-6: General
actions – Actions
during execution***



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(Including AC:2013)**

Eurocode 1: Actions on structures

**Part 1-6: General actions – Actions during
execution**

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***Centre of Information and Customer Service
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phone: +357 22 411413/4 email: c.service@cys.org.cy***

INTRODUCTION

This National Annex has been prepared by the CYS TC 18 Standardisation Technical Committee of the Cyprus Organisation for Standardisation. (CYS)

NA 1 SCOPE

This National Annex is to be used together with CYS EN 1991-1-6:2005 including AC:2013

Any reference in the rest of this text to CYS EN 1991-6:2006 means the above document.

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) NOTE 1
- 3.1(1)P
- 3.1(5) NOTE 1+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(1)
- 4.11.2(1)
- NOTE 2
- 4.12(1)P
- NOTE 2
- 4.12(2)
- 4.12 (3)
- 4.13(2)
- Annex A1
- A1.1(1)
- Annex A1
- A1.3(2)
- Annex A2 A2.3(1) Note 1
- Annex A2 A2.4(2)
- Annex A2 A2.4(3)
- Annex A2 A2.5(2)
- Annex A2 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. Guidance may be found in the relevant European Standards.

NA 2.2 Clause 2.2 (4). Note 1 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 shall be used.

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

The minimum wind velocity of 20m/s for durations of up to 3 months shall be used. 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 4.10 (1)P Definition of actions due to atmospheric icing

No further information is provided.

NA 2.12 Clause 4.11.1 (1) Table 4.1 Recommended characteristic values of construction loads Q_{ca} and Q_{cb}

The recommended characteristic values given for construction loads Q_{ca} is 1,0 kN/m² (see also 4.11.2 of CYS EN 1991-1-6:2005). The recommended minimum value for Bridges are: $q_{cb,k} = 0,2$ kN/m² and $F_{cb,k} = 100$ kN

NA 2.13 Clause 4.11.2 (1) Note 2 Construction loads during the casting of concrete

The recommended value of Table 4.2 of CYS EN 1991-1-6:2005 shall be applied

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

The value of 2 for the dynamic amplification factor shall be used. In specific cases a dynamic analysis is needed.

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 A1 Clause A1.1 (1) Representative values of the variable actions due to construction loads

The value for ψ_0 is 1.0

The minimum value for ψ_2 is 0,2.

NA 2.19 Annex A1 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.

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

The recommendations given in NOTE 1 shall be used.

± 10 mm longitudinally for one bearing, the other bearings being assumed to be at the theoretical level (Figure A2.1a);

– ± 2,5 mm in the transverse direction for one bearing, the other bearings being assumed to be at the theoretical level (Figure A2.1b).

NA 2.21 Annex A2 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.

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

The reduced percentage value of $x(\%)$ is 75%. No further provisions are specified.

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

The value of x is 10%.

NA 2.24 Annex A2 Clause A2.5 (3) Determination of friction coefficients μ_{\min} and μ_{\max}

The values of $\mu_{\min}=0$ and $\mu_{\max}=0.04$ shall be used, 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

**NA to
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1991-1-6:2005
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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