

***NATIONAL ANNEX
TO
CYS EN 1994-2:2005
(Including
Corrigendum AC:2008)***

***Eurocode 4: Design of
composite steel and
concrete structures***

***Part 2: General rules
and rules for bridges***

NATIONAL ANNEX

TO

CYS EN 1994-2:2005 (Including Corrigendum **AC:2008)
Eurocode 4: Design of composite steel and concrete
structures**

Part 2: General rules and rules for bridges

This National Annex has been approved by the Board of Directors of the Cyprus Organisation for Standardisation (CYS) on 14.06.2019.

Note: Correction on 15.11.2019 - NA 1 SCOPE

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INTRODUCTION

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

NA 1 SCOPE

This National Annex is to be used together with CYS EN 1994-2:2005(including Corrigendum AC:2008). Any reference in the rest of text to CYS EN 1994-2:2005 means the above document.

This National Annex gives:

- (a) Nationally determined parameters for the following clauses of CYS EN 1994-2:2005 where National choice is allowed (see Section NA 2)
- 1.1.3 (3)
 - 2.4.1.1 (1)
 - 2.4.1.2 (5)P
 - 2.4.1.2 (6) P
 - 5.4.4 (1)
 - 6.2.1.5 (9)
 - 6.2.2.5 (3)
 - 6.3.1 (1)
 - 6.6.1.1 (13)
 - 6.6.3.1 (1)
 - 6.8.1 (3)
 - 6.8.2 (1)
 - 7.4.1 (4)
 - 7.4.1. (6)
 - 8.4.3 (3)
- (b) Decision on the use of the Informative Annex C (see Section NA 3)
- (c) References to non-contradictory complementary information to assist the user to apply CYS EN 1994-2:2005. In this National Annex such information is provided for the following clauses in CYS EN 1994-2:2005 (see Section NA 4)

NA 2 NATIONALLY DETERMINED PARAMETERS

NA 2.1 Clause 1.1.3 (3) Scope of Part 2 of Eurocode 4

No other guidance for shear connectors is provided.

NA 2.2 Clause 2.4.1.1 (1) Design values of actions

The value defined for symbol γ_P is set to 1,0 both for favourable and unfavourable effects.

NA 2.3 Clause 2.4.1.2 (5)P Design values of material or product properties

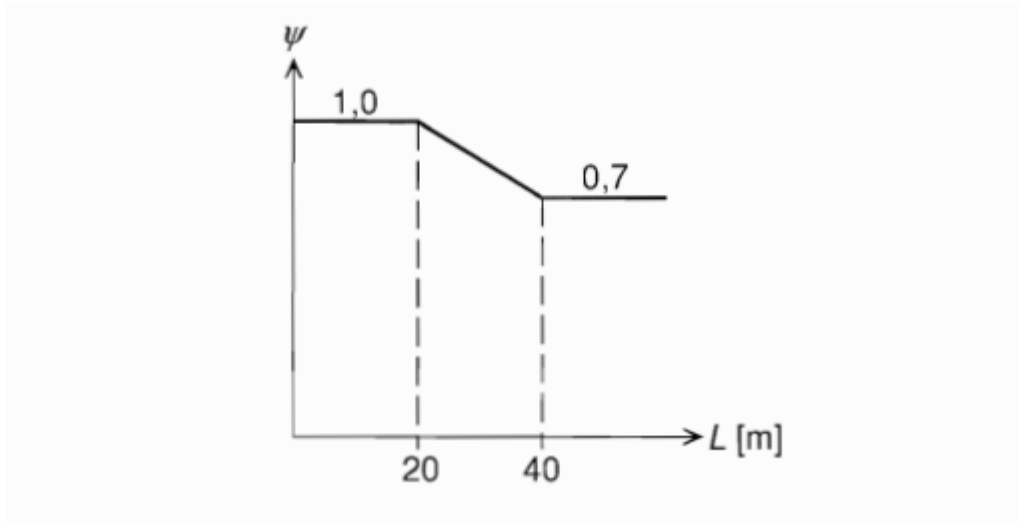
The value defined for symbol γ_V is set to 1,25.

NA 2.4 Clause 2.4.1.2 (6)P Design values of material or product properties

The value defined for symbol $\gamma_{Mf,s}$ is set to 1,0

NA 2.5 Clause 5.4.4 (1) Combination of global and local action effects

The values defined for the combination factor ψ , are shown in Figure E.2 of Annex E of EN 1993-2.



NA 2.6 Clause 6.2.1.5 (9) Elastic resistance to bending

Methods (7) and (8) or Section 10 of EN 1993-1-5 may be used.

NA 2.7 Clause 6.2.2.5 (3) Additional rules for beams in bridges

The values defined for symbols $C_{Rd,c}$ is set to $0,15/\gamma_c$, k_{1i} is set to $0,12$ and $\sigma_{cp,0}$ is set to $1,85\text{N/mm}^2$.

NA 2.8 Clause 6.3.1 (1) Filler beam decks – Scope

No further reference for transverse filler beams is provided.

NA 2.9 Clause 6.6.1.1 (13) Shear connection – Basis of design

No further guidance is provided.

NA 2.10 Clause 6.6.3.1 (1) Headed stud connectors – Design Resistance

The value defined for symbol γ_v is set to $1,25$.

NA 2.11 Clause 6.8.1 (3) Fatigue – General

The value defined for symbol k_s is set to $0,75$.

NA 2.12 Clause 6.8.2 (1) Partial factors for fatigue assessment of bridges

The value defined for symbol of $\gamma_{Mf,s}$ is set to $1,0$.

NA 2.13 Clause 7.4.1 (4) Cracking of concrete – General

The values defined for symbol w_k is set to w_{\max} found in the Note to EN 1992-2, 7.3.1 (105).

NA 2.14 Clause 7.4.1 (6) Cracking of concrete – General

The recommended temperature difference 20K is adopted.

NA 2.15 Clause 8.4.3 (3)

No further information is provided.

NA 3 DECISION ON USE OF THE INFORMATIVE ANNEX C

NA 3.1 Annex C

Annex C may be used.

NA 4 REFERENCES TO NON-CONTRADICTIONARY COMPLEMENTARY INFORMATION

None

**NA to
CYS EN
1994-2:2005
(Including
AC:2008)**

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