UK National Annex to Eurocode 3: Design of steel structures –

Part 2: Steel bridges

ICS 91.010.30; 91.080.10; 93.040

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National Annex (informative) to BS EN 1993-2:2006, Eurocode 3 – Design of steel structures – Part 2: Steel bridges

Introduction

This National Annex is published by BSI Standards Limited, under licence from The British Standards Institution. This National Annex has been prepared by BSI Subcommittee B/525/10, *Bridges*, in consultation with B/525/31, *Structural use of steel*.

The start and finish of text introduced or altered by National Amendment No.1 is indicated in the text by tags [A1⟩ and ⟨A1]. Minor editorial changes are not tagged.

National Amendment A1 has introduced changes to **NA.2.7** and **NA.3**.

NA.1 Scope

This National Annex gives:

a) the UK decisions for the Nationally Determined Parameters described in the following subclauses of BS EN 1993-2:2006:

- **2.1.3.2**(1)
- **2.1.3.3**(5)
- **2.1.3.4**(1)
- **2.1.3.4**(2)
- **2.3.1**(1) (two places)
- **3.2.3**(2)
- **3.2.3**(3)
- **3.2.4**(1)
- **3.4**(1)
- **3.5**(1)
- **3.6**(1)
- **3.6**(2)
- **4**(1)
- **4**(4)
- **5.2.1**(4)
- **5.4.1**(1)
- **6.1**(1)P
- **6.2.2.3**(1)
- **6.2.2.5**(1)
- **6.3.2.3**(1)
- **6.3.4.2**(1)
- **6.3.4.2**(7)
- **7.1**(3)
- **7.3**(1)
- **8.1.3.2.1**(1)
- **8.1.6.3**(1)
- **8.2.1.4**(1)
- **8.2.1.5**(1)
- **8.2.1.6**(1)
- **8.2.10**(1)
- **8.2.13**(1)
- **8.2.14**(1)
- **9.1.2**(1)
- **9.1.3**(1)
- **9.3**(1)P
- **9.3**(2)P
- **9.4.1**(6)
- **9.5.2**(2)
- **9.5.2**(3)
- **9.5.2**(5)
- **9.5.2**(6)
- **9.5.2**(7)
- **9.5.3**(2) (two places)
- **9.6**(1) (two places)
- **9.7**(1)
- **A.3.3**(1)P
- **A.3.6**(2)
- **A.4.2.1**(2)
- **A.4.2.1**(3)
- **A.4.2.1**(4)
- **A.4.2.4**(2)
- **C.1.1**(2)
- **C.1.2.2**(1)
- **C.1.2.2**(2)
- **E.2**(1)

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b) the UK decisions on the status of BS EN 1993-2:2006 informative annexes; and

c) references to non-contradictory complementary information.

NA.2 Nationally Determined Parameters

NA.2.1 Design working life [BS EN 1993-2:2006, 2.1.3.2(1)]

Unless otherwise specified for a particular project, the design working life should be 120 years.

NA.2.2 Durability [BS EN 1993-2:2006, 2.1.3.3(5)]

Additional requirements for durable details should be specified for a particular project.

NA.2.3 Robustness and structural integrity [BS EN 1993-2:2006, 2.1.3.4(1)]

Components which need to be designed for accidental design situations should be specified for a particular project.

NA.2.4 Robustness and structural integrity [BS EN 1993-2:2006, 2.1.3.4(2)]

The safe life design method of fatigue assessment should be used unless specified otherwise for a particular project.

NA.2.5 Actions and environmental influences [BS EN 1993-2:2006, 2.3.1(1)]

Actions not included in various parts of BS EN 1991 which need to be considered in the design should be specified for a particular project.

Transient situations for maintenance and repair which need to be considered should be specified for a particular project.

NA.2.6 Fracture toughness [BS EN 1993-2:2006, 3.2.3(2)]

The example in Table 3.1 should not be used and NA to BS EN 1993-1-10:2005, **NA.2.1**, should be followed.

NA.2.7 Fracture toughness [BS EN 1993-2:2006, 3.2.3(3)]

〈A1〉 For components in compression, the value given in NA to BS EN 1993-1-10 should be used.

NOTE Complementary guidance is given in PD 6695-1-10. 〈A1〉

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