



BSI Standards Publication

Eurocode 5 — Design of timber structures

Part 2: Bridges

This is a preview of BS EN 1995-2:2026. [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN 1995-2:2026. It supersedes BS EN 1995-2:2004, which will be withdrawn on 30 March 2028.

The UK participation in its preparation was entrusted to Technical Committee B/525/5, Structural use of timber.

A list of organizations represented on this committee can be obtained on request to its committee manager.

National choice is allowed in this standard where explicitly stated within notes. The National Annex to this standard contains the national choices to be used for buildings and civil engineering works constructed in the UK.

The first generation of EN Eurocodes was published between 2002 and 2007, with conflicting British Standards withdrawn in 2010. This document forms part of the second generation of EN Eurocodes.

The second generation of EN Eurocodes is expected to be published between 2023 and 2026. These documents are being published as soon as they are available. This is being done to enable users to prepare for the transition from the first generation to second generation of EN Eurocodes.

UK adoptions of the first generation of EN Eurocodes will be withdrawn by BSI on 30 March 2028. Until that date, the first generation documents should be considered as the applicable standards for buildings and civil engineering works constructed in the UK unless otherwise specified by the relevant authority or in the specification for a particular project.

This standard is intended to be used with its National Annex and other referenced documents, including other second generation Eurocodes, as an interdependent suite of documents.

While the use of provisions in this standard in conjunction with first generation Eurocodes is not precluded, it should be undertaken with care and should only be done when users are satisfied that it will not result in a lower level of reliability than the minimum level set in the first generation Eurocodes and associated UK National Annexes.

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Amendments/corrigenda issued since publication

Date	Text affected

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EUROPÄISCHE NORM

March 2026

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Supersedes EN 1995-2:2004

English Version

Eurocode 5 - Design of timber structures - Part 2: Bridges

Eurocode 5 - Calcul des structures en bois - Partie 2 :
Ponts

Eurocode 5 - Bemessung und Konstruktion von
Holzbauten - Teil 2: Brücken

This European Standard was approved by CEN on 28 December 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents	Page
European foreword	5
Introduction	7
1 Scope.....	10
1.1 Scope of EN 1995-2	10
1.2 Assumptions	10
2 Normative references.....	10
3 Terms, definitions, symbols and abbreviations	10
3.1 Terms and definitions	10
3.2 Symbols and abbreviations	14
3.2.1 Latin uppercase letters	14
3.2.2 Latin lowercase letters.....	14
3.2.3 Greek uppercase letters	15
3.2.4 Greek lowercase letters.....	15
3.2.5 Abbreviations.....	15
3.2.6 Indices.....	16
4 Basis of design.....	16
4.1 General rules	16
4.1.1 Basic requirements	16
4.1.2 Design service life.....	16
4.1.3 Robustness	18
4.2 Principles of limit state design.....	19
4.3 Basic variables	19
4.3.1 Actions and environmental influences	19
4.3.2 Moisture content.....	20
4.3.3 Load-duration classes	20
5 Materials	20
5.1 Timber	20
5.2 Concrete	21
5.3 Steel.....	21
5.4 Fasteners and connectors	21
6 Durability.....	22
6.1 Constructive measures	22
6.1.1 General.....	22
6.1.2 Protected members.....	23
6.1.3 Moisture protection of wood and wood-based materials	23
6.2 Water Management and deck surface	24
6.2.1 General.....	24
6.2.2 Waterproofing for timber decks	24
6.2.3 Waterproofing systems	25
6.3 Protection of steel members against corrosion.....	26
6.4 Inspection and maintenance of timber bridges.....	28
7 Structural analysis.....	28
7.1 Laminated timber decks.....	28

This is a preview of BS EN 1995-2:2026. [Click here to purchase the full version from the ANSI store.](#)

7.1.1	System stiffness and numerical analysis.....	28
7.1.2	Effective loaded area for concentrated vertical loads.....	29
7.2	Timber-concrete composite (TCC) structures	29
7.3	Composite members other than TCC.....	29
7.4	Deck planks.....	30
7.5	Integral bridges.....	31
7.6	Bracings.....	31
7.7	Bearings	31
7.8	Portal frames and foundations.....	31
8	Ultimate limit states (ULS)	32
8.1	Timber decks.....	32
8.1.1	System strength.....	32
8.1.2	Stress-laminated timber decks in bridges.....	33
8.2	TCC bridge structures	34
8.2.1	Beams and slabs - Verification of composite cross-sections.....	34
8.2.2	Adhesively bonded TCC bridges.....	35
8.2.3	Detailing of the surface and the cross-section of the bridge.....	36
9	Serviceability limit states (SLS).....	37
9.1	Irreversible deformations of stress-laminated timber decks.....	37
9.2	Deflections	37
9.3	Vibrations, damping.....	38
9.3.1	Vibrations from pedestrian actions.....	38
9.3.2	Vibrations caused by road actions	39
9.3.3	Vibrations caused by wind	40
10	Fatigue	40
10.1	General	40
10.2	Fatigue loading	40
10.3	Simplified fatigue verification	41
11	Joints and connections.....	41
Annex A (informative)	Effective composite creep coefficients for TCC.....	42
A.1	Use of this annex	42
A.2	Scope and field of application	42
A.3	General	42
Annex B (informative)	Dimensional changes due to environmental effects.....	45
B.1	Use of this annex	45
B.2	Scope and field of application	45
B.3	Variations in temperature and moisture content.....	45
B.3.1	Temperature	45
B.3.2	Moisture	46
B.4	Dimensional changes in timber bridge parts	46
B.4.1	General	46
B.4.2	Longitudinally constrained timber decks.....	46
B.4.3	Stressing rods and bars of steel.....	47
B.4.4	Cupping of stress-laminated timber decks.....	47

This is a preview of BS EN 1995-2:2026. [Click here to purchase the full version from the ANSI store.](#)

Annex C (informative) Additional information on bearings	48
C.1 Use of this annex	48
C.2 Scope and field of application	48
C.3 Bearings.....	48
Annex D (informative) Durability: Constructive measures and examples for detailing.....	50
D.1 Use of this annex	50
D.2 Scope and field of application	50
D.3 General.....	50
D.4 Protection concepts of protected timber bridges	50
D.5 Examples on structural detailing.....	52
D.6 Installation of moisture monitoring systems	65
Annex E (informative) Inspection and maintenance of timber bridges.....	67
E.1 Use of this annex	67
E.2 Scope and field of application	67
E.3 Moisture measurements	67
E.4 Maintenance strategy.....	67
Annex F (informative) Simplified verification of vibrations	69
F.1 Use of this annex	69
F.2 Scope and field of application	69
F.3 Traffic Classes (TC).....	69
F.4 Determination of fundamental frequencies.....	70
F.5 Determination of accelerations.....	71
F.5.1 General.....	71
F.5.2 Vertical accelerations.....	71
F.5.3 Lateral accelerations	73
Bibliography	75

This is a preview of BS EN 1995-2:2026. [Click here to purchase the full version from the ANSI store.](#)

European foreword

This document (EN 1995-2:2026) has been prepared by Technical Committee CEN/TC 250 “Structural Eurocodes”, the secretariat of which is held by BSI. CEN/TC 250 is responsible for all Structural Eurocodes and has been assigned responsibility for structural and geotechnical design matters by CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2027, and conflicting national standards shall be withdrawn at the latest by March 2028.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1995-2:2004.

The first generation of EN Eurocodes was published between 2002 and 2007. This document forms part of the second generation of the Eurocodes, which have been prepared under Mandate M/515 issued to CEN by the European Commission and the European Free Trade Association.

The Eurocodes have been drafted to be used in conjunction with relevant execution, material, product and test standards, and to identify requirements for execution, materials, products and testing that are relied upon by the Eurocodes.

The main changes compared to the previous edition are listed below:

- the design rules for durability and detailing have been revised;
- guidance on inspection and maintenance of timber bridges has been added;
- further design rules for deck plates have been added;
- the design rules for veneer lumber have been revised;
- the design rules for timber-concrete-composites have been revised;
- design rules for integral bridges have been added;
- rules for dimensional changes due to environmental effects have been added;
- further design rules for vibrations and damping have been added;
- the design rules for fatigue have been revised.

The Eurocodes recognize the responsibility of each Member State and have safeguarded their right to determine values related to regulatory safety matters at national level through the use of National Annexes.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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Introduction

0.1 Introduction to the Eurocodes

The Structural Eurocodes comprise the following standards generally consisting of a number of parts:

- EN 1990 Eurocode — Basis of structural and geotechnical design
- EN 1991 Eurocode 1 — Actions on structures
- EN 1992 Eurocode 2 — Design of concrete structures
- EN 1993 Eurocode 3 — Design of steel structures
- EN 1994 Eurocode 4 — Design of composite steel and concrete structures
- EN 1995 Eurocode 5 — Design of timber structures
- EN 1996 Eurocode 6 — Design of masonry structures
- EN 1997 Eurocode 7 — Geotechnical design
- EN 1998 Eurocode 8 — Design of structures for earthquake resistance
- EN 1999 Eurocode 9 — Design of aluminium structures
- EN 19100 Eurocode 10 — Design of glass structures
- New parts are under development, e.g. Eurocode for design of fibre-polymer composite structures and design of tensioned membrane structures

The Eurocodes are intended for use by designers, clients, manufacturers, constructors, relevant authorities (in exercising their duties in accordance with national or international regulations), educators, software developers, and committees drafting standards for related product, testing and execution standards.

NOTE Some aspects of design are most appropriately specified by relevant authorities or, where not specified, can be agreed on a project-specific basis between relevant parties such as designers and clients. The Eurocodes identify such aspects making explicit reference to relevant authorities and relevant parties.

0.2 Introduction to EN 1995 (all parts)

EN 1995 (all parts) describes the principles and requirements for safety, serviceability and durability of timber structures. It is based on the limit state concept used in conjunction with a partial factor method.

Numerical values for partial factors and other reliability parameters are recommended as basic values that provide an acceptable level of reliability. They have been selected assuming that an appropriate level of workmanship and of quality management applies.

EN 1995 (all parts) applies to the design of buildings and civil engineering works in timber (solid timber, sawn, planed or in pole form, structural finger jointed timber, glued solid timber, glued laminated timber, cross laminated timber and structural laminated veneer lumber), wood-based panels and softboards as sheeting of timber frame members jointed together with adhesives or mechanical fasteners. It complies with the principles and requirements for the safety and serviceability of structures, the basis of their design and verification that are given in EN 1990-1.

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EN 1995 (all parts) is only concerned with requirements for mechanical resistance, serviceability, durability and fire resistance of timber structures. Other requirements, e.g. concerning thermal or sound insulation, are not considered.

EN 1995 is subdivided in various parts:

- EN 1995-1 Design of timber structures — Part 1: General rules and rules for buildings
- EN 1995-2 Design of timber structures — Part 2: Bridges
- EN 1995-3 Design of timber structures — Part 3: Execution

EN 1995-1 in itself does not exist as a physical document, but comprises the following three separate parts:

- EN 1995-1-1 Design of timber structures — Part 1-1 General rules and rules for buildings
- EN 1995-1-2 Design of timber structures — Part 1-2: Structural fire design
- CEN/TS 19103 Eurocode 5 — Design of Timber Structures — Structural design of timber-concrete composite structures — Common rules and rules for buildings

EN 1995-2 “Bridges” refers to the common rules in EN 1995-1-1 and supplements, modifies or supersedes them, where relevant.

EN 1995-3 “Execution” refers to the common rules in EN 1995-1-1. The Clauses in EN 1995-3 supplement the Clauses in EN 1995-1 and EN 1995-2.

0.3 Introduction to EN 1995-2

EN 1995-2 provides design rules for the structural parts of timber bridges.

0.4 Verbal forms used in the Eurocodes

The verb “shall” expresses a requirement strictly to be followed and from which no deviation is permitted in order to comply with the Eurocodes.

The verb “should” expresses a highly recommended choice or course of action. Subject to national regulation and/or any relevant contractual provisions, alternative approaches could be used/adopted where technically justified.

The verb “may” expresses a course of action permissible within the limits of the Eurocodes.

The verb “can” expresses possibility and capability; it is used for statements of fact and clarification of concepts.

0.5 National Annex for EN 1995-2

National choice is allowed in this document where explicitly stated within notes. National choice includes the selection of values for Nationally Determined Parameters (NDPs).

The national standard implementing EN 1995-2 can have a National Annex containing all national choices to be used for the design of buildings and civil engineering works to be constructed in the relevant country.

When no national choice is given, the default choice given in this document is to be used.

When no national choice is made and no default is given in this document, the choice can be specified by a relevant authority or, where not specified, agreed for a specific project by appropriate parties.

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National choice is allowed in EN 1995-2 through notes to the following clauses:

4.1.2.1(2)

4.3.1.3(1)

9.2(1)

National choice is allowed in EN 1995-2 on the application of the following informative annexes:

Annex B

Annex C

Annex D

Annex E

Annex F

Annex A

The National Annex can contain, directly or by reference, non-contradictory complementary information for ease of implementation, provided it does not alter any provisions of the Eurocodes.

1 Scope

1.1 Scope of EN 1995-2

(1) This document gives design rules for the structural parts of bridges, i.e. structural members of importance for the reliability of the whole bridge or major parts of it, made of timber or other wood-based materials, either singly or compositely with concrete, steel or other materials.

(2) Prestressed timber-concrete composite (TCC) members are not covered by this document. The design of stress-laminated timber decks used as part of a TCC system is covered.

(3) Systems which rely on friction between wood and concrete are not covered by this document.

1.2 Assumptions

(1) The assumptions of EN 1990-1 apply to this document.

(2) It is assumed that the requirements for execution given in EN 1995-3 are complied with.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE See the Bibliography for a list of other documents cited that are not normative references, including those referenced as recommendations (i.e. in 'should' clauses), permissions ('may' clauses), possibilities ('can' clauses), and in notes.

EN 1990-1:2023+A1:2026, *Eurocode — Basis of structural and geotechnical design— Part 1: New structures*

EN 1991 (all parts), *Eurocode 1 — Actions on structures*

EN 1992-1-1, *Eurocode 2 — Design of concrete structures — Part 1-1: General rules and rules for buildings, bridges and civil engineering structures*

EN 1993-1-11, *Eurocode 3 — Design of steel structures — Part 1-11: Tension components*

EN 1993-2, *Eurocode 3 — Design of steel structures — Part 2: Bridges*

EN 1995-1-1:2025, *Eurocode 5 — Design of timber structures — Part 1-1: General rules and rules for buildings*

EN 1995-3, *Eurocode 5 — Design of timber structures — Part 3: Execution*

EN 1998-2:2025, *Eurocode 8 — Design of structures for earthquake resistance — Part 2: Bridges*

CEN/TS 19103:2021, *Eurocode 5 — Design of Timber Structures — Structural design of timber-concrete composite structures — Common rules and rules for buildings*

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1995-1-1, CEN/TS 19103, EN 1995-3 and the following apply.