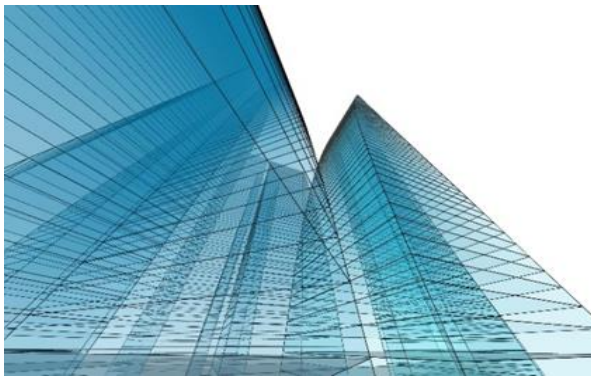
# EUROCODES

Structural Eurocodes are “the rules for basis of design, actions on structures, geotechnical design as well as structural design rules for the use of all the major materials i.e. concrete, steel, composite steel and concrete, timber, masonry, and aluminum.”

(Source: CEN - Business Plan_V9 - CEN/TC 250 - July 2020)



## MAIN TECHNICAL COMMITTEES ON EUROCODES STANDARDIZATION

### - European level -

### ➢ CEN/TC 250 – Structural Eurocodes

| Standards | 128 | Projects | 68 | National delegates | 28 |
|---|---|---|---|---|---|

**Scope**

Standardization of structural and geotechnical design rules for building and civil engineering works taking into account the relationship between design rules and the assumptions to be made for materials, execution and control.

**5 Working Groups under TC**

| | | | |
|---|---|---|---|
| WG 1 | Policy, procedures and links with other standards | WG 2 | Assessment and Retrofitting of Existing Structures |
| WG 4 | Fibre reinforced polymer structures | WG 5 | Membrane Structures |
| WG 6 | Robustness | | |

**11 Sub-Committees (with Working Groups)**

| | | | |
|---|---|---|---|
| SC 1 | Eurocode 1: Actions on structures (7 WG) | SC 2 | Eurocode 2: Design of concrete structures (3 WG) |
| SC 3 | Eurocode 3: Design of steel structures (21 WG) | SC 4 | Eurocode 4: Design of composite steel and concrete structures (1 WG) |
| SC 5 | Eurocode 5: Design of timber structures (10 WG) | SC 6 | Eurocode 6: Design of masonry structures (4 WG) |
| SC 7 | Eurocode 7: Geotechnical design (1 WG) | SC 8 | Eurocode 8: Earthquake resistance design of structures (7 WG) |
| SC 9 | Eurocode 9: Design of aluminium structures (3 WG) | SC 10 | EN 1990 Basis of structural design (4 WG) |
| SC 11 | Structural Glass (1 WG) | | |

### - National level -

### ➢ ILNAS/TC 100 – Eurocodes “STAND-BY”

| Standards | 58 | Projects | 0 | National delegates | 0 |
|---|---|---|---|---|---|

**Scope**

National Annexes for structural Eurocodes.

# MAIN STANDARDS ON EUROCODES

| Eurocode - Basis of structural and geotechnical design | |
|---|---|
| EN 1990:2023 | Basis of structural and geotechnical design |
| **Eurocode 1 - Actions on structures** | |
| EN 1991-1-1:2002 | Part 1-1: General actions - Densities, self-weight, imposed loads for buildings - *Technical Corrigendum in 2009* |
| EN 1991-1-2:2002 | Part 1-2: General actions - Actions on structures exposed to fire - *Technical Corrigendum in 2013* |
| EN 1991-1-3:2003 | Part 1-3: General actions - Snow loads *Technical Corrigendum in 2009; Amended in 2015* |
| EN 1991-1-4:2005 | Part 1-4: General actions - Wind actions *Technical Corrigendum in 2010; Amended in 2010* |
| EN 1991-1-5:2003 | Part 1-5: General actions - Thermal actions *Technical Corrigendum in 2009* |
| EN 1991-1-6:2005 | Part 1-6: General actions - Actions during execution - *Technical Corrigendum in 2013* |
| EN 1991-1-7:2006 | Part 1-7: General actions - Accidental actions *Technical Corrigendum in 2010; Amended in 2014* |
| EN 1991-2:2003 | Part 2: Traffic loads on bridges *Technical Corrigendum in 2010* |
| EN 1991-3:2006 | Part 3: Actions induced by cranes and machinery *Technical Corrigendum in 2012* |
| EN 1991-4:2006 | Part 4: Silos and tanks *Technical Corrigendum in 2012* |
| CEN/TR 17231:2018 | Traffic Loads on Bridges - Track-Bridge Interaction |
| **Eurocode 2 - Design of concrete structure** | |
| EN 1992-1-1:2004 | Part 1-1: General rules and rules for buildings *Technical Corrigendum in 2010; Amended in 2014* |
| EN 1992-1-2:2004 | Part 1-2: General rules - Structural fire design *Technical Corrigendum in 2008; Amended in 2019* |
| EN 1992-2:2005 | Concrete bridges - Design and detailing rules *Technical Corrigendum in 2008* |
| EN 1992-3:2006 | Part 3: Liquid retaining and containment structures |
| EN 1992-4:2018 | Part 4: Design of fastenings for use in concrete |
| **Eurocode 3 - Design of steel structures** | |
| EN 1993-1-1:2022 | Part 1-1: General rules and rules for buildings |
| EN 1993-1-2:2005 | Part 1-2: General rules - Structural fire design *Technical Corrigendum in 2009* |
| EN 1993-1-3:2006 | Part 1-3: General rules - Supplementary rules for cold-formed members and sheeting *Technical Corrigendum in 2009* |
| EN 1993-1-4:2006 | Part 1-4: General rules - Supplementary rules for stainless steels - *Amended in 2015 & 2020* |
| EN 1993-1-5:2006 | Part 1-5: Plated structural elements - *Technical Corrigendum in 2009; Amended in 2017 & 2019* |
| EN 1993-1-6:2007 | Part 1-6: Strength and Stability of Shell Structures *Technical Corrigendum in 2009; Amended in 2017* |
| EN 1993-1-7:2007 | Part 1-7: Plated structures subject to out of plane loading - *Technical Corrigendum in 2009* |
| EN 1993-1-8:2005 | Part 1-8: Design of joints - *Technical Corrigendum in 2009* |
| EN 1993-1-9:2005 | Part 1-9: Fatigue - *Technical Corrigendum in 2009* |
| EN 1993-1-10:2005 | Part 1-10: Material toughness and through-thickness properties - *Technical Corrigendum in 2009* |
| EN 1993-1-11:2006 | Part 1-11: Design of structures with tension components - *Technical Corrigendum in 2009* |
| EN 1993-1-12:2007 | Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700 - *Technical Corrigendum in 2009* |
| CEN/TS 1993-1-101: 2022 | Part 1-101: Alternative interaction method for members in bending and compression |
| EN 1993-2:2006 | Part 2: Steel Bridges - *Technical Corrigendum in 2009* |
| EN 1993-3-1:2006 | Part 3-1: Towers, masts and chimneys - Towers and masts - *Technical Corrigendum in 2009* |
| EN 1993-3-2:2006 | Part 3-2: Towers, masts and chimneys - Chimneys |
| EN 1993-4-1:2007 | Part 4-1: Silos *Technical Corrigendum in 2009; Amended in 2017* |
| EN 1993-4-2:2007 | Part 4-2: Tanks *Technical Corrigendum in 2009; Amended in 2017* |
| EN 1993-5:2007 | Part 5: Piling - *Technical Corrigendum in 2009* |
| EN 1993-6:2007 | Part 6: Crane supporting structures *Technical Corrigendum in 2009* |
| **Eurocode 4 - Design of composite steel & concrete structures** | |
| EN 1994-1-1:2004 | Part 1-1: General rules and rules for buildings Technical Corrigendum in 2009 |
| EN 1994-1-2:2005 | Part 1-2: General rules - Structural fire design *Technical Corrigendum in 2008; Amended in 2014* |
| EN 1994-2:2005 | Part 2: General rules and rules for bridges *Technical Corrigendum in 2008* |

| Eurocode 5 - Design of timber structures | |
|---|---|
| EN 1995-1-1:2004 | Part 1-1: General - Common rules and rules for buildings - *Technical Corrigendum in 2006; Amended in 2008 & 2014* |
| EN 1995-1-2:2004 | Part 1-2: General - Structural fire design *Technical Corrigendum in 2009* |
| EN 1995-2:2004 | Part 2: Bridges |
| CEN/TS 19103:2021 | Structural design of timber-concrete composite structures - Common rules and rules for buildings |
| **Eurocode 6 - Design of masonry structures** | |
| EN 1996-1-1:2022 | Part 1-1: General rules for reinforced and unreinforced masonry structures |
| EN 1996-1-2:2005 | Part 1-2: General rules - Structural fire design *Technical Corrigendum in 2010* |
| EN 1996-2:2006 | Part 2: Design considerations, selection of materials and execution of masonry - *Technical Corrigendum in 2009* |
| EN 1996-3:2006 | Part 3: Simplified calculation methods for unreinforced masonry structures - *Technical Corrigendum in 2009* |
| **Eurocode 7 - Geotechnical design** | |
| EN 1997-2:2007 | Part 2: Ground investigation and testing *Technical Corrigendum in 2010* |
| **Eurocode 8 - Design of structures for earthquake resistance** | |
| EN 1998-1:2004 | Part 1: General rules, seismic actions and rules for buildings *Technical Corrigendum in 2009; Amended in 2013* |
| EN 1998-2:2005 | Part 2: Bridges - *Technical Corrigendum in 2010; Amended in 2009 & 2011* |
| EN 1998-3:2005 | Part 3: Assessment and retrofitting of buildings *Technical Corrigendum in 2013* |
| EN 1998-4:2006 | Part 4: Silos, tanks and pipelines |
| EN 1998-5:2004 | Part 5: Foundations, retaining structures and geotechnical aspects |
| EN 1998-6:2005 | Part 6: Towers, masts and chimneys |
| **Eurocode 9 - Design of aluminium structures** | |
| EN 1999-1-1:2023 | Part 1-1: General structural rules |
| EN 1999-1-2:2023 | Part 1-2: Structural fire design |
| EN 1999-1-3:2023 | Part 1-3: Structures susceptible to fatigue |
| EN 1999-1-4:2023 | Part 1-4: Cold-formed structural sheeting |
| EN 1999-1-5:2023 | Part 1-5: Shell structures |
| **Design of glass structures** | |
| CEN/TS 19100-1: 2021 | Part 1: Basis of design and materials |
| CEN/TS 19100-2: 2021 | Part 2: Design of out-of-plane loaded glass components |
| CEN/TS 19100-3: 2021 | Part 3: Design of in-plane loaded glass components and their mechanical joints |
| **Design of fastenings for use in concrete** | |
| CEN/TR 17079:2018 | Redundant non-structural systems |
| CEN/TR 17080:2018 | Anchor channels - Supplementary rules |
| CEN/TR 17081:2018 | Plastic design of fastenings with headed and post-installed fasteners |
| **Others Eurocodes** | |
| EN 13391:2004 | Mechanical tests for post-tensioning systems |
| CEN/TS 17440:2020 | Assessment and retrofitting of existing structures |
| CEN/TS 19101:2022 | Design of fibre-polymer composite structures |
| **58 national annexes** | |
| ILNAS-EN 1990-EN 1999//AN-LU:2011 | 41 annexes revised in 2011 |
| ILNAS-EN 1990-EN 1999//AN-LU:2020 | 17 annexes revised in 2020 |

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