



EUROCÓDIGO 3: índice general (en español) y comentado (en inglés)

ÍNDICE GENERAL

Eurocódigo 3: Proyecto de estructuras de acero

- EN 1993-1-1. Reglas generales y reglas para edificios.
- EN 1993-1-2. Estructuras expuestas al fuego.
- EN 1993-1-3. Perfiles y chapas de paredes delgadas conformadas en frío.
- EN 1993-1-4. Aceros inoxidables.
- EN 1993-1-5. Placas planas cargadas en plano.
- EN 1993-1-6. Láminas.
- EN 1993-1-7. Placas planas cargadas transversalmente.
- EN 1993-1-8. Uniones.
- EN 1993-1-9. Fatiga.
- EN 1993-1-10. Tenacidad de fractura y resistencia transversal.
- EN 1993-1-11. Cables y tirantes.
- EN 1993-1-12. Reglas adicionales para la aplicación de la norma EN 1993 hasta aceros de grado S 700.
- EN 1993-2. Puentes de acero.
- EN 1993-3-1. Torres y mástiles.
- EN 1993-3-2. Chimeneas.
- EN 1993-4-1. Silos.
- EN 1993-4-2. Depósitos.
- EN 1993-4-3. Conducciones.
- EN 1993-5. Pilotes y tablestacas.
- EN 1993-6. Vigas carril.

ÍNDICE COMENTADO

Eurocode 3 - Design of steel structures

- Part 1-1: General rules and rules for buildings
Eurocode 3-1-1 gives basic design rules for steel structures with material thicknesses $t > 3$ mm. It also gives supplementary provisions for structural design of steel buildings.



- **Part 1-2: General rules - Structural fire design**

This Part 1.2 of Eurocode 3 deals with the design of steel structures for the accidental situation of fire exposure and is intended to be used in conjunction with Eurocode 3-1-1 and EN 1991-2-2. This Part 1.2 only identifies differences from, or supplements to, normal temperature design.
- **Part 1-3: General rules - Supplementary rules for cold formed thin gauge members and sheeting**

This part 1.3 of Eurocode 3 deals with the design of steel structures comprising cold formed thin gauge members and sheeting. It is intended to be used for design of buildings and civil engineering works in conjunction with Eurocode 3-1-1.
- **Part 1-4: General rules - Supplementary rules for stainless steels**

This Part 1.4 of Eurocode 3 gives supplementary provisions for the design of buildings and civil engineering works that extend the application of ENV 1993-1-1 and Eurocode 3-1-3 to austenitic and austenitic-ferritic stainless steels.
- **Part 1-5: General rules - Supplementary rules for planar plated structures without transverse loading**

This Part 1-5 of Eurocode 3 gives supplementary provisions for the design of plated structures, with or without stiffeners, for use in conjunction with Eurocode 3-1-1 and other parts of Eurocode 3 that refer to it. Methods are given for determining the effects of plate buckling and shear lag in I-section plate girders and box girders.
- **Part 1-6: General rules - Supplementary rules for the shell structures**

This Part 1.6 of Eurocode 3 applies to the structural design of plated steel structures that have the form of a shell of revolution. It is intended for use in conjunction with Eurocode 3-1-1, Eurocode 3-1-3, Eurocode 3-1-4 and the relevant application parts of Eurocode 3, which include: - Part 3.1 for towers and masts; - Part 3.2 for chimneys; - Part 4.1 for silos; - Part 4.2 for tanks; - Part 4.3 for pipelines.
- **Part 1-7: General rules - Supplementary rules for planar plated structural elements with out of plane loading**

Part 1-7 of Eurocode 3 provides principles and application rules for the structural design of unstiffened and stiffened plates which are loaded by out of plane actions. It is to be used in conjunction with Eurocode 3-1-1 and the relevant application standards.



- **Part 1-8: Design of joints**
This part of Eurocode 3 gives design methods for the design of joints subject to predominantly static loading using steel grades S235, S275, S355 and S460.
- **Part 1-9: Fatigue**
Eurocode 3-1-9 gives methods for assessment of fatigue resistance of members, connections and joints subjected to fatigue loading.
- **Part 1-10: Material toughness and through-thickness properties**
Eurocode 3-1-10 contains design guidance for the selection of steel for fracture toughness and for through thickness properties of welded elements where there is a significant risk of lamellar tearing during fabrication.
- **Part 1-11: Design of structures with tension components**
- **Part 1-12: Supplementary rules for high strength steels**
- **Part 2: Steel bridges**
This Part 2 of Eurocode 3 gives a general basis for the structural design of steel bridges, steel parts of composite bridges and also steel temporary works in bridges. It gives provisions that supplement, modify or supersede the equivalent provisions given in Eurocode 3-1-1, to which reference shall also be made.
- **Part 3-1: Towers, masts and chimneys - Towers and masts**
This Part 3.1 of Eurocode 3 applies to the design of lattice towers and guyed masts. Provisions for the shafts of self-supporting and guyed cylindrical towers are given in Part 3.2 of Eurocode 3. Provisions for the guys of guyed structures are given in this Part. The provisions in this Part either supplement or modify those given in Part 1.
- **Part 3-2: Towers, masts and chimneys – Chimneys**
This Part 3.2 of Eurocode 3 applies to the structural design of vertical steel chimneys of circular or conical section. It covers chimneys that are cantilevered, supported at intermediate levels or guyed. The provisions in this Part either supplement or modify those given in Part 1.
- **Part 4-1: Silos, tanks and pipelines – Silos**
Part 4-1 of Eurocode 3 provides principles and application rules for the structural design of steel silos of circular or rectangular plan-form, being free standing or supported. This part is concerned only with the requirements for resistance and stability of steel silos.
- **Part 4-2: Silos, tanks and pipelines – Tanks**
Part 4.2 of Eurocode 3 provides principles and application rules for the structural design of vertical cylindrical above ground steel tanks for the storage of liquid



products with the following characteristics: a) characteristic internal pressures not less than -100 mbar and not more than 500 mbar; b) design metal temperature in the range of -196°C to +300 °C; c) maximum design liquid level not higher than the top of the cylindrical shell.

– **Part 4-3: Silos, tanks and pipelines – Pipelines**

Part 4.3 of Eurocode 3 provides principles and application rules for the structural design of cylindrical steel pipelines for the transport of liquids or gases or mixtures of liquids and gases at ambient temperatures, that are not treated by other European standards covering particular applications

– **Part 5: Piling**

This Part 5 of Eurocode 3 provides principles and application rules for the structural design of bearing piles and sheet piles made of steel. It also provides detailing for foundation and retaining wall structures.

– **Part 6: Crane supporting structures**

Part 6 of Eurocode 3 provides principles and application rules for the structural design of crane runway beams and other crane supporting structures, including columns and other members made of steel.