

Rules for design of welded structures

European standards and handbooks for design of support structures for buildings and other load carrying structures.

EN 1090 Execution of steel structures

ENV 1090-1:1998	General rules and rules for buildings
EN 1090-2	Execution of steel structures and aluminium structures – Technical requirements for steel structures
<i>ENV 1090-3</i>	<i>Supplementary rules for high yield strength steels</i>
<i>ENV 1090-4</i>	<i>Supplementary rules for hollow section structures</i>
<i>ENV 1090-5</i>	<i>Supplementary rules for bridges</i>
<i>ENV 1090-6</i>	<i>Supplementary rules for stainless steel</i>

EN 1337 Structural bearings

EN 1337-1:2000	General design rules
EN 1337-2:2001	Sliding elements
EN 1337-4:2004	Roller bearings
EN 1337-6:2004	Rocker bearings
EN 1337-7:2001	Spherical and cylindrical PTFE bearings
EN 1337-9:1998	Protection
EN 1337-10:2003	Inspection and maintenance
EN 1337-11:1998	Transport, storage and installation

EN 1990:2002 Actions on structures

EN 1991 Actions on structures

EN 1991-1-1:2002	Densities, self-weight, imposed loads for buildings
EN 1991-1-2:2002	Actions on structures exposed to fire
EN 1991-1-3:2003	Snow loads
EN 1991-1-4:2005	Wind actions
EN 1991-1-5:2003	Thermal actions
EN 1991-1-6:2005	Actions during execution
EN 1991-1-7:2006	Accidental actions
EN 1991-2:2003	Traffic loads on bridges
EN 1991-3:2006	Actions induced by cranes and machinery
EN 1991-4:2006	Silos and tanks

EN 1993 Design of steel structures

EN 1993-1-1:2005	General rules and rules for buildings
EN 1993-1-2:2005	General rules - Structural fire design EN 1993-1-
EN 1993-1-3:2006	General rules – Supplementary rules for cold-formed members and sheeting
EN 1993-1-4:2006	General rules - Supplementary rules for stainless steels

EN 1993-1-5:2006	Plated structural elements
EN 1993-1-6:2007	Strength and stability of shell structures
EN 1993-1-7:2007	Plated structures subject to out of plane loading
EN 1993-1-8:2005	Design of joints
EN 1993-1-9:2005	Fatigue
EN 1993-1-10:2005	Material toughness and through-thickness properties
EN 1993-1-11:2006	Design of structures with tension components
EN 1993-1-12:2007	Additional rules for the extension of EN 1993 up to steel grades S700
EN 1993-2:2006	Steel bridges
EN 1993-3-1:2006	Towers, masts and chimneys - Towers and masts
EN 1993-3-2:2006	Towers, masts and chimneys - Chimneys

EN 1994 Design of composite steel and concrete structures

EN 1994-1-1:2004	General rules and rules for buildings
EN 1994-1-2:2005	Structure fire design
EN 1994-2:2005	General rules and rules for bridges

EN 1998 Design of structures for earthquake design

EN 1998-1:2004	General rules, seismic actions and rules for buildings
EN 1998-2:2005	Bridges
EN 1998-3:2005	Assessment and retrofitting of buildings
EN 1998-4:2006	Silos, tanks and pipelines
EN 1998-5:2004	Foundations, retaining structures and geotechnical aspects
EN 1998-6:2005	Towers, masts and chimneys

EN 1999 Design of aluminium structures**BS 7910:2005 Guide to methods for assessing acceptability of flaws in metallic structures****EN 10025 Hot rolled products of structural steels**

EN 10025-1:2004	General technical delivery conditions
EN 10025-2:2004	Technical delivery conditions for non-alloy structural steels
EN 10025-3:2004	Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels
EN 10025-4:2004	Technical delivery conditions for thermomechanical rolled weldable fine grain structural steels
EN 10025-5:2004	Technical delivery conditions for structural steels with improved atmospheric corrosion resistance
EN 10025-6:2004	Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition

EN 10028-1:2007 Flat products made of steels for pressure purposes

EN 10028-1:2007 General requirements

EN 10028-2:2003 Non-Alloy and alloy steels with specified elevated temperature properties

EN 10029:1991 Tolerances on dimensions, shape and mass for hot rolled steel plates 3 mm thick or above**EN 10034:1993 Structural steel I and H sections - Tolerances of shape and dimensions****EN 10051:1992 Continuously hot-rolled uncoated plate, sheet and strip of non-alloy and alloy steels - Tolerances on dimensions and shape****EN 10055:1996 Hot rolled steel equal flange tees with radiused root and toes - Dimensions and tolerances on shape and dimensions****EN 10058:2003 Hot rolled flat steel bars for general purposes - Dimensions and tolerances on shape and dimensions****EN 10080:2005 Steel for the reinforcement of concrete - Weldable reinforcing steel - General****EN 10130:1999 Cold-rolled low-carbon steel flat products for cold forming - Technical delivery conditions****EN 10155:1993 Structural steels with – improved atmospheric corrosion resistance. Technical delivery conditions****EN 10163 Delivery requirements for surface condition of hot-rolled steel plates, wide flats and sections**

EN 10163-1:2004 General requirements

EN 10163-2:2004 Plate and wide flats

EN 10163-3:2004 Sections

EN 10164:2004 Steel products with improved deformation properties perpendicular to the surface of the product - Technical delivery conditions**EN 10210 Hot finished structural hollow sections of non-alloy and fine grain steels**

EN 10210-1:2006 Technical delivery conditions

EN 10210-2:2006 Tolerances, dimensions and sectional properties

EN 10219 Cold formed welded structural hollow sections of non-alloy and fine grain steels

EN 10219-1:2006 Technical delivery conditions

EN 10219-2:2006 Tolerances, dimensions and sectional properties

EN 10268:2006 Cold rolled steel flat products with high yield strength for cold forming - Technical delivery conditions**EN 13001 Crane safety – General design**

EN 13001-1:2004 General principles and requirements

EN 13001-2:2004 Load actions

ENV 13001-3.1:2004 Limit states and proof of competence of steel structures

EN 13084 Free-standing industrial chimneys

EN 13084-1:2000 General requirements

EN 13084-2:2001 Concrete chimneys

EN 13084-4:2005 Brick liners - Design and execution

EN 13084-5:2005 Material for brick liners - Product specifications

EN 13084-6:2005 Steel liners - Design and execution

EN 13084-7:2006 Product specifications of cylindrical steel fabrications for use in single wall steel chimneys and steel liners

EN 13084-8:2005 Design and execution of mast construction with satellite components

EN 13155:2003 Cranes - Safety – Non-fixed load lifting attachments**EN 13445 Unfired pressure vessels**

EN 13445-1:2002 General

EN 13445-2:2002 Materials

EN 13445-3:2002 Design

EN 13445-4:2002 Fabrication

EN 13445-5:2002 Inspection and testing

EN 13445-6:2002 Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron

EN 13480 Metal industrial piping

EN 13480-1:2002 General

EN 13480-2:2002 Materials

EN 13480-3:2002 Design and calculation

EN 13480-4:2002 Fabrication and installation

EN 13480-5:2002 Inspection and testing

EN 13480-6:2002 Additional requirements for buried piping

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EN 20898 Mechanical properties of fasteners

EN 20898-1:1992 Bolts, screws and studs

EN 20898-2:1994 Nuts with specified proof load values - Coarse thread

EN 20898-6:1992 Nuts with specified proof load values - Fine pitch thread

EN 20898-7:1995 Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm

ISO 887:2000 *Plain washers for metric bolts, screws and nuts for general purposes - General plan***ISO 898-1:1999** *Mechanical Properties of Fasteners Made of Carbon Steel and Alloy Steel - Part 1: Bolts, Screws and Studs***ISO 898-5:1999** *Mechanical Properties of Fasteners Made of Carbon Steel and Alloy Steel - Part 5: Set Screws and Similar Threaded Fasteners Not under Tensile Stresses***ISO 898-6:1996** *Mechanical Properties of Fasteners - Part 6: Nuts with Specified Proof Load Values - Fine Pitch Thread***ISO 1071:2003** *Welding consumables - Covered electrodes, wires, rods and tubular cored electrodes for fusion welding of cast iron - Classification***ISO 1127:1997** *Stainless Steel Tubes - Dimensions, Tolerances and Conventional Masses Per Unit Length***EN 5817:2003** **Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections****IIW** **13-19-65/XV/1127 Recommendations for fatigue design of welded joints and components****Boverkets konstruktionsregler****BSK 07** Boverkets handbok om stålkonstruktioner**BSV 97** Boverkets handbok om snö- och vindlastHandbok och formelsamling i **Hållfasthetslära**, institutionen för hållfasthetslära, KTH**Handboken Bygg** Allmänna grunder 1A
1B
Konstruktionsteknik
Byggtabeller

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Roarks formulas for stress & strains

Skalhandboken