

Building Standards

These are selected standards from those issued by the British Standards Institute (BSI) and the German Institute for Standardisation (DIN).

STANDARDS

BS and DIN

BRITISH STANDARDS (BS)

Building basics

PD 6079-4	Project management. Guide to project management in the construction industry
BS ISO 22263	Organization of information about construction works. Framework for management of project information
BS 7000-4	Design management systems. Guide to managing design in construction
BS ISO 15686-5	Buildings and constructed assets. Service life planning. Life cycle costing
ASTM E917-05	Standard Practice for Measuring Life-Cycle Costs of Buildings and Building Systems
BS EN 1991-1-1	Eurocode 1. Actions on structures. General actions. Densities, self-weight, imposed loads for buildings (Other topics in Actions series)
BS EN ISO 8560	Construction drawings. Representation of modular sizes, lines and grids
BS 6750	Specification for modular coordination in building
BS EN ISO 128	Technical drawings. General principles of presentation
BS EN ISO 4157	Construction drawings. Designation systems

Building design

DD 266	Design of accessible housing. Lifetime home. Code of practice
DD CEN/TS 15209	Tactile paving surface indicators produced from concrete, clay and stone
BS ISO 23599	Assistive products for blind and vision impaired persons. Tactile walking surface indicators
BS 9999	Code of practice for fire safety in the design, management and use of buildings
BS EN 54	Fire detection and fire alarm systems
BS 5306	Fire extinguishing installations and equipment on premises
BS EN 50110	Operation of electrical installations
BS EN 62052	Electricity metering equipment (AC). General requirements, tests and test conditions
BS EN 50164	Lightning protection components (LPC)
BS 6100	Building and civil engineering. Vocabulary. Services
BS 8210	Guide to building maintenance management
BS EN 15331	Criteria for design, management and control of maintenance services for buildings
BS 6954	Tolerances for building
BS 6465	Sanitary installations
BS 5925	Code of practice for ventilation principles and designing for natural ventilation
PD CEN/TR 14788	Ventilation for buildings. Design and dimensioning of residential ventilation systems
BS 585	Wood stairs
BS 5578-2	Building construction – stairs. Modular co-ordination: specification for coordinating dimensions for stairs and stair openings
BS 6375	Performance of windows and doors

Building materials and elements

BS 6100	Building and civil engineering. Vocabulary/ Glossary
BS 6037	Code of practice for the planning, design, installation and use of permanently installed access equipment

GERMAN STANDARDS (DIN)

Building basics

DIN 18205	Brief for building design
DIN 107	Building construction; identification of right and left side
DIN 277	Areas and volumes of buildings
DIN 276	Building costs
DIN 18960	User costs of buildings
DIN 1055	Action on structures
DIN 4172	Modular coordination in building construction
DIN 18000	Modular coordination in building
DIN EN ISO 128	Technical drawings

Building design

DIN 18024	Barrier-free built environment
DIN 18025	Accessible dwellings
DIN 32984	Ground surface indicators in public traffic areas
DIN 14096	Fire precaution regulation
DIN 14675	Fire detection and fire alarm systems. Design and operation
DIN 18015	Electrical installations in residential buildings
DIN 18013	Recesses for meter boards (electric meters)
DIN 18014	Foundation earth electrode. General planning criteria
DIN 18012	House service connections facilities. Principles for planning
DIN 31051	Fundamentals of maintenance
DIN 18203	Tolerances in building construction – Structures
DIN 68935	Coordinating dimensions for bathroom furniture, appliances and sanitary equipment
DIN 18017	Ventilation of bathrooms and WCs without outside windows
DIN 18065	Stairs in buildings
DIN 18100/18101	Doors
DIN 58125	Construction of schools
DIN 13080	Division of hospitals into functional areas and functional sections

Building materials and elements

DIN V 20000	Application of construction products in structures
DIN 4426	Equipment for building maintenance
DIN EN 13162	Thermal insulation products for buildings
DIN 18515/6	Cladding for external walls

Building materials and elements (continued)

BS EN ISO 9229	Thermal insulation. Vocabulary
BS 8298	Code of practice for the design and installation of natural stone cladding and lining
BS EN 1928	Flexible sheets for waterproofing. Bitumen, plastic and rubber sheets for roof waterproofing. Determination of watertightness
BS EN 12730	Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing. Definitions and characteristics
BS EN 12697	Bituminous mixtures. Test methods for hot mix asphalt.
BS EN 15820	Polymer modified bituminous thick coatings for waterproofing. Determination of watertightness
BS 8204	Screeds, bases and in situ floorings
BS EN 13813	Screed material and floor screeds. Screed material. Properties and requirements
BS 8000-9	Workmanship on building sites. Cementitious levelling screeds and wearing screeds. Code of practice
BS EN 771-1	Specification for masonry units. Clay masonry units
BS EN 771-2	Specification for masonry units. Calcium silicate masonry units
BS EN 12369-2	Characteristic values for design. Plywood
BS EN 312	Particleboards. Specifications
BS EN 622-1	Fibreboards. Specifications. General requirements
BS EN 520	Gypsum plasterboards. Definitions, requirements and test methods
BS EN 12859	Gypsum blocks. Definitions, requirements and test methods
BS EN 12860	Gypsum based adhesives for gypsum blocks. Definitions, requirements and test methods
ISO 9050	Glass in building – Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors
BS EN 336/8	Structural timber
BS EN 338	Structural timber. Strength classes
BS EN 14732	Timber structures. Prefabricated wall, floor and roof elements
BS EN 14080	Timber structures. Glued laminated timber. Requirements
BS EN 14220(14221)	Timber and wood-based materials in external (internal) windows, external (internal) door leaves and external (internal) doorframes. Requirements and specifications
BS EN 14761	Wood flooring. Solid wood parquet. Vertical finger and module brick
BS EN 13226	Wood flooring. Solid parquet elements with grooves and/or tongues
BS EN 13488	Wood flooring. Mosaic parquet elements
BS EN 14342	Wood flooring. Characteristics, evaluation of conformity and marking
BS EN 12871	Wood-based panels. Performance specifications and requirements for load bearing boards for use in floors, walls and roofs
BS 13986	Wood-based panels for use in construction
BS EN 14221	Timber and wood-based materials in internal windows, internal door leaves and internal doorframes. Requirements and specifications
BS EN 13168	Thermal insulation products for buildings. Factory made wood wool (WW) products. Specification

Building materials and elements (continued)

DIN 18531	Waterproofing of roofs
DIN 52143	Bitumen roofing felt with glass fleece base
DIN 52130/3	Bitumen
DIN 52129	Uncoated bitumen saturated coating
DIN 18560	Floor screeds in building construction
DIN EN 13813	Screed material and floor screeds
DIN 272	Testing of magnesium oxychloride screeds
DIN EN 771	Clay masonry units
DIN V 106	Calcium silicate units
DIN 68705	Plywood
DIN EN 312	Particle boards – specifications
DIN EN 622	Fibreboards
DIN 18180/4	Gypsum plasterboards
DIN EN 12859	Gypsum blocks
DIN EN 12860	Gypsum-based adhesives for gypsum blocks
DIN EN 410/637	Glass in building – Determination of luminous and solar characteristics of glazing
DIN EN 336/338	Structural timber
DIN 4074	Strength grading of wood
DIN 18530	Solid structural decks for roofs; design and construction
ISO 19993	Timber structures – Glued laminated timber
DIN 68121	Timber or windows and window doors
DIN EN 14761	Wood flooring – Solid wood parquet
DIN EN 13226	Wood flooring – Solid parquet elements with grooves and/or tongues
DIN EN 13488	Wood flooring – Mosaic parquet elements
DIN EN 14342	Wood flooring – Characteristics, evaluation of conformity and marking
DIN 68702	Wood paving
DIN EN 13986	Wood-based panels for use in construction
DIN 68706	Internal doors made from wood and wood-based panels
DIN 1101	Wood wool lightweight boards
DIN 66095	Textile floor coverings
DIN EN 14085	Resilient floor coverings
DIN EN 14411	Ceramic tiles – Definitions, classifications, characteristics and marking
DIN 18156/7	Materials for ceramic tiling in thin mortar bed technique
DIN 18158	Clinker floor tiles
DIN 4226	Aggregates for concrete and mortar
DIN EN 197	Cement
DIN EN 413	Masonry cement
DIN EN 459	Building lime
DIN EN 206	Concrete
DIN EN 1520	Application in structures of prefabricated reinforced components of lightweight aggregate concrete with open structure
DIN 18148	Lightweight-concrete hollow-boards
DIN V 18153	Concrete masonry units (normal weight concrete)
DIN V 18152	Lightweight concrete solid bricks and blocks
DIN 18162	Lightweight concrete wallboards – unreinforced
DIN V 4165	Autoclaved aerated concrete masonry units
DIN 4166	Autoclaved aerated concrete slabs and panels
DIN 18551	Shotcrete
DIN 18159	In-situ cellular plastics in building
DIN 18164	Foamed plastics as insulating materials
DIN 18550	Plastering / rendering and plastering / rendering systems
DIN 18558	Synthetic resin plasters
DIN 4121	Hanging wire-plaster ceilings

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STANDARDS

BS and DIN

BRITISH STANDARDS (BS)

Building materials and elements *(continued)*

BS ISO 2424	Textile floor coverings. Vocabulary
BS EN 14041	Resilient, textile and laminate floor coverings. Essential characteristics
BS EN 14411	Ceramic tiles. Definitions, classification, characteristics and marking
BS 5385-3	Wall and floor tiling. Design and installation of internal and external ceramic floor tiles and mosaics in normal conditions. Code of practice
BS 5385-5	Wall and floor tiling. Design and installation of terrazzo, natural stone and agglomerated stone tile and slab flooring. Code of practice
BS EN 13055-1	Lightweight aggregates. Lightweight aggregates for concrete, mortar and grout
DIN EN 197	Cement
BS EN 459	Building lime
BS EN 413	Masonry cement
BS EN ISO 15630	Steel for the reinforcement and prestressing of concrete. Test methods.
BS EN 206	Concrete
BS EN 1168	Precast concrete products. Hollow core slabs
BS 6073	Precast concrete masonry units. Guide for specifying precast concrete masonry units
BS EN 771-3	Specification for masonry units. Aggregate concrete masonry units (dense and lightweight aggregates)
BS EN 1520	Prefabricated reinforced components of lightweight aggregate concrete with open structure with structural or non-structural reinforcement
BS EN 771-4	Specification for masonry units. Autoclaved aerated concrete masonry units
BS EN 12602	Prefabricated reinforced components of autoclaved aerated concrete
ASTM C1436	Standard specification for materials for shotcrete
ISO 4898	Rigid cellular plastics. Thermal insulation products for buildings. Specifications
BS EN 13164 (13165)	Thermal insulation products for buildings. Factory made products of extruded polystyrene foam – XPS. (Factory made rigid polyurethane foam – PUR – products) Specification
BS EN 13914	Design, preparation and application of external rendering and internal plastering
BS EN 14246	Gypsum elements for suspended ceilings. Definitions, requirements and test methods
BS EN 13964	Suspended ceilings. Requirements and test methods
BS EN 1993	Eurocode 3. Design of steel structures
BS EN 1090	Execution of steel structures and aluminium structures

Building services

BS EN 60335-2-30	Household and similar electrical appliances. Safety. Particular requirements for room heaters. Thermal storage room heaters
BS 5871	Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances
BS EN 12831	Heating systems in buildings. Method for calculation of the design heat load

GERMAN STANDARDS (DIN)

Building materials and elements *(continued)*

DIN EN 13964	Suspended ceilings – Requirements and test methods
DIN 18800	Steel structures
DIN 18801	Structural steel in building; design and construction
DIN 18807	Trapezoidal sheeting in building; trapezoidal steel sheeting

Building services

DIN 4703	Heating appliances
DIN EN 12831	Heating systems in buildings – Method for calculation of the design heat load
DIN EN 12828	Heating systems in buildings – Design of water-based systems
DIN EN 1264	Floor heating – Systems and components
DIN 4725	Warm water underfloor heating
DIN 4724	Plastic piping systems for warm water floor heating systems and radiator connecting

Building services (continued)

BS EN 12828	Heating systems in buildings. Design for water-based heating systems
BS EN 1264	Floor heating. Systems and components
BS EN ISO 22391	Plastics piping systems for hot and cold water installations. Polyethylene of raised temperature resistance (PE-RT)
BS EN 14337	Heating systems in buildings. Design and installation of direct electrical room heating systems
BS EN 15316	Heating systems in buildings. Method for calculation of system energy requirements and system efficiencies
BS EN 15239	Ventilation for buildings. Energy performance of buildings. Guidelines for inspection of ventilation systems
BS EN 13141	Ventilation for buildings. Performance testing of components/products for residential ventilation
BS EN ISO 13790	Energy performance of buildings. Economic evaluation procedure for energy systems in buildings
BS EN ISO 13370	Thermal performance of buildings. Heat transfer via the ground. Calculation methods

Building physics and building protection measures

BS 8000-4	Workmanship on building sites. Code of practice for waterproofing
BS EN 1014	Wood preservatives. Creosote and creosoted timber. Methods of sampling and analysis
BS 8417	Preservation of wood. Code of Practice
BS EN 14188	Joint fillers and sealants
BS EN 13880	Hot applied joint sealants
BS EN 14187	Cold applied joint sealants
BS EN 13022	Glass in building. Structural sealant glazing
BS EN ISO 717	Acoustics. Rating of sound insulation in buildings and of building elements
BS EN 12354	Building acoustics
BS EN ISO 3382	Acoustics. Measurement of room acoustic parameters
BS 8233	Sound insulation and noise reduction for buildings. Code of practice
BS EN 61293	Marking of electrical equipment with ratings related to electrical supply. Safety requirements
BS EN 13823	Reaction to fire tests for building products. Building products excluding floorings exposed to thermal attack by a single burning item
BS EN 13501	Fire classification of construction products and building elements
BS EN 12101	Smoke and heat control systems
BS EN 1147	Portable ladders for fire service use
BS EN 54	Fire detection and fire alarm systems
BS EN 1634	Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware
BS EN 14600	Doorsets and openable windows with fire resisting and/or smoke control characteristics. Requirements and classification
BS EN ISO 10077	Thermal performance of windows, doors and shutters
BS EN 13187	Thermal performance of buildings – Qualitative detection of thermal irregularities in building envelopes. Infrared method
BS EN ISO 7345	Thermal insulation – Physical quantities and definitions

Building services (continued)

DIN 44576	Electrical room heating
DIN V 4701	Energy efficiency of heating and ventilation systems in buildings
DIN EN 12792	Ventilation for buildings – Symbols, terminology and graphical symbols
DIN 4108	Thermal insulation and energy economy in buildings
DIN EN 832	Thermal protection and energy economy in buildings
DIN EN ISO 13370	Thermal performance of buildings – Heat transfer via the ground – Calculation methods

Building physics and building protection measures

DIN 18195	Waterproofing of buildings
DIN 68800	Protection of timber used in buildings – General specifications
DIN 18541	Sealing of joints in concrete with water stops
DIN 18540	Sealing of exterior wall joints in building using joint sealants
DIN 18545	Glazing with sealants
DIN EN ISO 717	Acoustics – Rating of sound insulation in buildings and of building elements
DIN EN 12354	Building acoustics
DIN 18041	Acoustic quality in small to medium-sized rooms
DIN 18005	Noise abatement in town planning
DIN 4844	Safety marking
DIN 4102	Fire behaviour of building materials and building components
DIN EN 13501	Fire classification of construction products and building elements
DIN 18093	Fire barriers
DIN 18232	Smoke and heat control systems
DIN 14094	Fire fighting purposes – Escape ladder installations
DIN 14090	Areas for the fire brigade on premises
DIN 18230	Structural fire protection in industrial buildings
DIN 14095	Ground plans of components of buildings for fire brigade use
DIN EN 14600	Doorsets and openable windows with fire resisting and/or smoke control characteristics. Requirements and classification
DIN EN ISO 10077	Thermal performance of windows, doors and shutters
DIN EN 13187	Thermal performance of buildings – Qualitative detection of thermal irregularities in building envelopes. Infrared method
DIN EN 13829	Thermal performance of buildings – Determination of air permeability of buildings. Fan pressurization method
DIN V 4108	Thermal insulation and energy economy in buildings

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BRITISH STANDARDS (BS)

Building physics and building protection measures (*continued*)

BS EN 13162-7 2	Thermal insulation products for buildings
BS EN 14064	
BS EN ISO 6946	Building components and building elements – Thermal resistance and thermal transmittance – Calculation method
BS EN ISO 10211	Thermal bridges in building construction. Heat flows and surface temperatures. Detailed calculations
BS EN ISO 13788	Hygrothermal performance of building components and building elements

Finishings

BS EN 1443	Chimneys – General requirements
BS EN 1857	Chimneys. Components. Concrete flue liners
BS EN 1906	Building hardware. Lever handles and knob furniture. Requirements and test methods
BS EN 81	Safety rules for the construction and installation of lifts
BS EN 12665	Light and lighting. Basic terms and criteria for specifying lighting requirements
BS EN 60432	Incandescent lamps. Safety specification
BS EN 60921	Ballasts for tubular fluorescent lamps. Performance requirements
BS EN 60598	Luminaires. Particular requirements
BS EN 50285	Energy efficiency of electric lamps for household use
BIP 2081	A Guide to Emergency Lighting
BS 8206-2	Lighting for buildings. Code of practice for daylighting
BS EN 13829	Thermal performance of buildings – Determination of air permeability of buildings. Fan pressurization method
BS ISO 18292	Energy performance of fenestration systems for residential buildings. Calculation procedure
BS EN 13659	Shutters. Performance requirements including safety
BS 6375	Performance of windows and doors
BS 5642	Sills and copings. Specification for window sills of precast concrete, cast stone, clayware, slate and natural stone
BS 8213	Windows, doors and rooflights. Code of practice: safety in use / survey and installation / installation of replacement windows and doorset in dwellings
BS EN 1051	Glass in building. Glass blocks and glass pavers
BS EN 607	Eaves gutters and fittings made of PVC-U. Definitions, requirements and testing
BS 8212	Code of practice for dry lining and partitioning using gypsum plasterboard
BS 8000-8	Workmanship on building sites. Code of practice for plasterboard partitions and dry linings

GERMAN STANDARDS (DIN)

Building physics and building protection measures (*continued*)

DIN EN ISO 7345	Thermal insulation – Physical quantities and definitions
DIN EN 13162-7 2	Thermal insulation products for buildings
DIN EN ISO 6946	Building components and building elements – Thermal resistance and thermal transmittance – Calculation method
DIN EN ISO 10211	Thermal bridges in building construction. Heat flows and surface temperatures. Detailed calculations
DIN EN ISO 13788	Hygrothermal performance of building components and building elements

Finishings

DIN EN 1443	Chimneys – General requirements
DIN V 18160	Chimneys
DIN 18255/18257	Building hardware – Door lever handles, backplates and escutcheons / Security plates
DIN 15306	Lifts – Passenger lifts in residential buildings
DIN 15309	Lifts – Passenger lifts in non-residential buildings and bed lifts
DIN 18090/1	Lifts – Lift landing doors
DIN 5035	Artificial lighting
DIN EN 12464	Light and lighting – Lighting of workplaces
DIN EN 1838	Lighting applications – Emergency lighting
DIN 5034	Daylight in interiors
DIN 18055	Windows
DIN V 18073	Roller shutters, awnings, rolling doors and other blinds and shutters in buildings
DIN EN 12207/08	Windows and doors – Air permeability
DIN 18057	Concrete windows
DIN EN 12210	Windows and doors – Resistance to wind load – Classification
DIN 4242	Glass block walls; construction and dimensioning
DIN EN 612	Eaves gutters with bead-stiffened fronts and rainwater pipes with seamed joints made of metal sheet
DIN 18183	Partitions and wall linings with gypsum boards on metal framing
DIN 4103	Internal non-loadbearing partitions

STANDARDS

BS and DIN

Sports and play facilities, landscaping

BS EN 13200	Spectator facilities
BS EN 12231	Surfaces for sports areas. Method of test, Determination of ground cover of natural turf
ASTM F2442	Standard Guide for Layout of Ice Arena
BS EN 1176	Playground equipment and surfacing
ASTM F1487	Standard consumer safety performance specification for playground equipment
BS 3882	Specification for topsoil and requirements for use

Construction contract

BS 6100-10	Building and civil engineering. Vocabulary. Contract terms
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Sports and play facilities, landscaping

DIN 18032	Halls and rooms for sports and multi-purpose use
DIN 18035	Sports grounds
DIN 18036	Ice-sport facilities with artificial ice
DIN 18034	Playgrounds and outdoor play areas
DIN 33942	Barrier-free accessible playground equipment
DIN 18915/18920	Gardening technology in landscaping – soil working

Construction contract

DIN 1960/1961	German construction contract procedures (VOB)
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