Saudi Building Code- General (SBC 201)

Major Code Objectives:

- Regulating constructions, changes, and expansions in buildings.
- Clarifying the references in the building codes for the specific architectural requirements according to the space occupancy in the building.
- Clarification of processes and procedures for general inspection and special inspection.

Highlights of the Code:

- Use and Occupancy Classification
- General buildings heights and areas
- Types of construction
- Fire and smoke protection features
- Interior finishs
- Safe exit routes in emergencies
- Accessibility for people with disabilities
- Interior environment

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The Saudi Loading Code (SBC 301)

Major Code Goals:

- Criteria for Loads determination and analysis to ensure the durability, stability, and strength of constructions.
- Criteria for protecting the building's structural elements from natural hazards and loads such as earthquakes, winds, etc.
- Criteria to ensure the resistance of the building against earthquakes and natural hazards.

Highlights of the Code:

Load requirements according to the classification and use of the building.

Requirements related to the map of wind loads in the design and construction of buildings and structures.

Requirements for loads caused by floods.

Risk categories for structural buildings

Seismic design requirements for buildings according to the seismic map.

Loads from soil and lateral stresses.

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The Saudi Construction Code (SBC 302)

Major Code Goals:

- Describing the correct requirements in construction processes for the implementation of projects and the types of formworks used in the construction of buildings.

Highlights of the code:

- The requirements for the design of formwork.
- Requirements for the construction of concrete structures.
- Requirements of inspection bodies to carry out inspection and testing of the materials used in construction.
- Quality System Requirements for Inspection Bodies.

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Saudi Soil & Foundation Code (SBC 303)

Major Code Goals:

- To ensure the strength and stiffness of the building foundations.
- protecting the building foundations from the factors surrounding.the soil.
- Building resistance to wind loads, earthquake loads, and.humidity.

Highlights of the code:

- The technical requirements related to building foundation according to its types.
- Soil report requirements and cases in which a soil report should be made.
- The information and specifications related to soil properties and Grading, excavation, and filling works
- Requirements for waterproofing and dampproofing of building foundations

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The Saudi Concrete Structures Code (SBC 304)

Major Code Goals:

- Safe structural design criteria for Reinforced Concrete Structures
- Description of the method of reinforcing structural elements according to design requirements
- Description of the minimum and maximum limits of inputs in the engineering formulas of structural design.

Highlights of the code:

- Requirements for structural elements of the building.
- Earthquake resistance requirements for concrete structures.
- Mandatory requirements for the resistance of concrete structures.
- Determining the technical requirements for reinforced concrete and specifications of rebar.

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Saudi Masonry Code (SBC 305)

Major Code Goals:

- To ensure the safety and sustainability of the masonry structures.
- Increasing the ability to resist the loads placed on the masonry structures.
- Protecting the masonry structural elements from cracks.

Highlights of the code:

The masonry structures design requirements.

The seismic design requirements for the masonry structures.

Methods of designing masonry structures.

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Saudi Steel Structures Code (SBC 306)

Major Code Goals:

- To ensure the safety and sustainability of the steel structures.
- Increasing the ability to resist the loads placed on the steel structures.
- Specifying the design scope for steel structures

Highlights of the code:

- The steel structures design requirements.
- The seismic design requirements for the steel structures.
- Specifying the structural calculations of steel structures.

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Saudi Building Code for Precast Concrete (SBC 307)

Major Code Goals:

- To ensure the safety and sustainability of the precast concrete structures.
- Increasing the ability to resist the loads of earthquake, wind, and rain
- Specifying the design scope for precast concrete structures

Highlights of the code:

General construction requirements for precast concrete structures.

Requirements and properties of precast concrete materials.

The seismic design, wind, and rains requirements.

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The Saudi Building Code for Design of Cold-Formed Steel Members (SBC 308)

Major Code Goals:

- To ensure the safety and sustainability of cold-formed steel members.
- Increasing the ability to resist the loads of earthquake, wind, and rain.
- Specifying the design scope for cold-formed steel structures.

Highlights of the code:

- General design requirements for cold-formed steel members and system.
- Requirements and properties of cold-formed steel materials.
- The seismic design, wind, and rains requirements.

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The Saudi Building Code for Cold-formed Steel Light- frame Construction (SBC 309)

Major Code Goals:

- To ensure the safety and sustainability of the structural elements used in the construction of cold-formed steel Light-frames.
- Clarifying the correct method of constructing the cold-formed steel Light-frames and increasing the ability to resist the loads of earthquake and natural hazards.

Highlights of the code:

Design requirements of the structural elements used in constructing cold-formed steel Light-frames.

Everything related to installment of the structural elements used in constructing cold-formed steel Light-frames.

Test methods of structural elements.

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Saudi Electrical Code (SBC 401)

Major Code Goals:

- Protection of life and property against electric shock.
- To design, install, operate, maintain, and safeguard the electrical systems, devices, and wirings of buildings.
- To specify the electrical load for buildings and the proper systems according to the occupancies specified in the project.

Highlights of the code:

- Earthing systems.
- Lightning protection systems.
- Electrical distribution boards and breakers.
- Specification of electrical wiring requirements in wet areas.
- Wiring of electrical wires and cables.
- Fire alarm systems.
- Electric vehicles (EV) chargers.
- Design references for electrical requirements.

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Saudi Mechanical Code (SBC 501)

Major Code Goals:

- To specify the design, installation, maintenance, modification, and inspection requirements for permanently installed mechanical systems used to control environmental conditions and related processes within buildings.

Highlights of the code:

- Natural and mechanical ventilation
- Exhaust systems
- Chimneys and vents
- Conditioning and refrigeration
- Water heaters
- Air duct systems

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Saudi energy conservation codes (SBC 601 - 602)

Major Code Goals:

- To specify minimum energy efficiency requirements in the design of buildings.
- To specify the design requirements for the energy conservation.

Highlights of the code:

- Requirements for exterior envelope of the building.
- Heating, ventilating, and air conditioning.
- Service water heating.
- Indoor air quality and ventilation systems
- Lighting

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Saudi Sanitary Code - Plumbing (SBC 701)

Major Code Goals:

- Setting the minimum requirements for installing, changing, repairing, transporting, replacing, adding, using and maintaining plumbing material systems to achieve their sustainability and using specifications to integrate with water conservation.
- Determining the design requirements for water conservation

Highlights of the code:

- Fixtures, Faucets and fixture fittings
- Water heaters
- Water supply and distribution
- Non-potable water systems
- Traps, interceptors, and separators
- Storm drainage
- Special piping and storage systems
- Pipe ventilation

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Saudi Sanitary Code - Private Sewage Disposal Code (SBC 702)

Major Code Goals:

- Wastewater disposal including the specific health limitations for design and includes flood hazard areas.
- Achieving general health for the community and to safe the population from diseases resulting from sewage.

Highlights of the code:

- Soil absorption systems
- Pressure Distribution Systems
- Residential Wastewater Systems
- Septic tanks

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The Saudi Fire Code (SBC 801)

Major Code Goals:

- Providing protection methods from fire and explosion hazards.
- Establishing minimum design requirements to ensure the safety of life and the protection of property.
- Providing an appropriate level of safety for firefighters during emergency operations.

Highlights of the code:

- Scope and definitions
- General Safety provisions
- Safety requirements for the design of buildings and equipment
- Handling hazardous material
- Reference Standards for Design - Inspection

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Saudi Existing Building Code (SBC 901)

Major Code Goals:

- To specify the design requirements of existing buildings in case of adding or modifying the building's occupancy or restoring it.

Highlights of the code:

- Repairs to existing buildings
- Modifications of existing buildings
- Change of occupancy
- Seismic strengthening design requirements for buildings
- Occupancy requirements in existing buildings
- Relocated or moved buildings

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Saudi Historical Building Code (SBC 902)

Major Code Goals:

- To provide the minimum requirements for the conservation, restoration, rehabilitation, re-occupation or reconstruction of the buildings or properties designated as qualified historic buildings or property.

Highlights of the code:

- Use and occupancy
- Fire protection system
- Construction regulations
- Archaic materials and methods of construction
- Mechanical, plumbing and electrical requirements
- Qualified historical districts, sites and open spaces

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Saudi Green Building Code (SBC 1001)

Major Code Goals:

- Rationalization and efficiency of the use of natural resources.
- Specifying the environmental requirements in the waste of materials and the permissible percentages in waste recycling.
- Promoting and specifying the sustainability requirements of buildings during design, execution, and operation.
- Classification of buildings by green building uses.
- The quality of the building's internal environment and amenities.
- Reducing carbon dioxide emissions.

Highlights of the code:

- Site development and land use
- Energy conservation and reduction of carbon dioxide emissions
- Conservation and efficiency of resources
- Conservation of water resources
- Development of existing building sites

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Saudi Residential Buildings Code (SBC 1101 - 1102)

Major Code Goals:

- To Facilitate the design requirements for the designer and to provide minimum requirements for single- or two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories above grade plane in height, and for residences with no more than three floors.

Highlights of the code:

- Management and planning
- Loads and strengths
- Reinforced concrete
- Roofing and cold-formed steel (CFS) works
- Energy Efficiency Requirements
- Fuel Gas Requirements
- Plumbing requirements
- Electricity requirements

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The Saudi Fuel Gas Code (SBC 1201)

Major Code Goals:

- To specify the minimum acceptable level of safety for the use of fuel gas.
- Protection of workers in the installation, maintenance and replacement of systems and devices addressed by this code.

Highlights of the code:

- Scope and management
- Definitions
- General Requirements
- Gas piping installations
- Chimneys and vents
- Gaseous Hydrogen Systems

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The Saudi Swimming Pool and Spa Code (SBC 1401)

Major Code Goals:

- To provide the minimum requirements for the design, construction, modification, repair, and maintenance of aquatic recreation facilities, swimming pools and spas.

Highlights of the code:

- Requirements for public swimming pools and aquatic recreation facilities
- Public spas requirements
- Requirements for public permanent and mobile residential swimming pools
- Requirements for public permanent and mobile residential spas

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