

SUSTAINABLE CONSTRUCTION

“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs. It contains within it two key concepts: the concept of 'needs', in particular the essential needs of the world's poor, to which overriding priority should be given, and the idea of limitations imposed by the state of technology and social organization on the environment's ability to meet present and future needs.”

(United Nations – Brundtland report - March 1987)



MAIN TECHNICAL COMMITTEES ON SUSTAINABLE CONSTRUCTION STANDARDIZATION

- International level -

➤ ISO/TC 59/SC 17 – Sustainability in buildings and civil engineering works

Standards

13

Projects

1

National delegates

0

Scope

Standardization in the field of sustainability of new and existing construction works in the context of the UN Sustainable Development Goals and climate change mitigation and adaptation. The environmental, economic, and social aspects of sustainability and circular economy are included as appropriate.

6 Working Groups

AHG 2 Circular economy in the construction sector
 WG 1 General principles and terminology
 WG 4 Environmental performance of buildings

AHG 3 Climate change mitigation in buildings and engineering works
 WG 3 Environmental declaration of products
 WG 5 Civil engineering works

- European level -

➤ CEN/TC 350 – Sustainability of construction works

Standards

14

Projects

5

National delegates

9

Scope (Extract)

The committee is responsible for the development of horizontal standardized methods for the assessment of the sustainability aspects of new and existing construction works (buildings and civil engineering works) in the context of the UN Sustainable Development Goals and of the circular economy. The methodological basis will be developed in the context of current needs, European strategies, such as mitigation, adaptation and resilience to climate change, and life cycle thinking.
 The standards describe coherent methodologies for the assessment of sustainability of construction works covering the assessment of environmental, social and economic performance (aspect and impacts) of buildings and civil engineering works, and the provision of construction product environmental information (EPD). (...)

1 Subcommittee

SC 1 Circular Economy in the Construction Sector

6 Working Groups

WG 1 Environmental performance of buildings
 WG 5 Social performance assessment of building
 WG 7 Framework and Coordination

WG 3 Products Level
 WG 6 Civil Engineering works
 WG 8 Sustainable refurbishment

MAIN STANDARDS ON SUSTAINABLE CONSTRUCTION

General principles and terminology	
ISO 15392:2019	General principles
ISO 21930:2017	Core rules for environmental product declarations of construction products and services
ISO/TR 21932:2013	A review of terminology
ISO/TS 12720:2014	Guidelines on the application of the general principles in ISO 15392
Environmental product declarations	
EN 15942:2021	Communication format business-to-business
EN 17672:2022	Horizontal rules for business-to-consumer communication
EN 15804:2012	Core rules for the product category of construction products <i>Amended in 2019, Technical Corrigendum in 2021</i>
CEN/TR 15941:2010	Methodology for selection and use of generic data
CEN/TR 16970:2016	Guidance for the implementation of EN 15804
Sustainability indicators	
ISO 21929-1:2011	Part 1: Framework for the development of indicators and a core set of indicators for buildings
ISO 21928-2:2023	Part 2: Framework for the development of indicators for civil engineering works
Indicators and benchmarks	
ISO 21678:2020	Principles, requirements and guidelines
Additional environmental impact categories and indicators - Background information and possibilities	
CEN/TR 17005:2016	Evaluation of the possibility of adding environmental impact categories and related indicators and calculation methods for the assessment of the environmental performance of buildings
Framework for assessment	
EN 15643:2021	Framework for assessment of buildings and civil engineering works
ISO 21931-1:2022	Part 1: Buildings
ISO 21931-2:2019	Part 2: Civil engineering works
Sustainability assessment of civil engineering works	
EN 17472:2022	Calculation methods
Assessment of economic performance of buildings	
EN 16627:2015	Calculation methods
Assessment of environmental performance of buildings	
EN 16309:2014	Calculation methods - <i>Amended in 2014</i>
Evaluation of the potential for sustainable refurbishment	
EN 17680:2023	Evaluation of the potential for sustainable refurbishment of buildings
Design for disassembly and adaptability	
ISO 20887:2020	Principles, requirements and guidance
Carbon metric of an existing building during use stage	
ISO 16745-1:2017	Part 1: Calculation, reporting and communication
ISO 16745-2:2017	Part 2: Verification
Data templates	
EN ISO 22057:2022	Data templates for the use of environmental product declarations (EPDs) for construction products in building information modelling (BIM) (ISO 22057:2022)

