# bsi.

# The built environment's journey to net zero

The built environment contributes around 40% of the UK's total carbon footprint, indicating how important the sector is to achieving net zero carbon emissions. In order to reduce its environmental impact, the built environment needs to address embodied carbon, used during the whole life of a structure, as well as operational carbon, including energy used for heating, cooling and power. Energy efficiency retrofit focuses on the reduction of operational carbon, as 80% of the buildings that will be in use in 2050 have already been built. Standards play a vital role in enabling the sector's shift to net zero, covering lower-carbon products and materials, energy efficiency, alternative fuels and more sustainable methods of construction, operation, decommissioning and recycling.

All our standards are available on British Standards **Online (BSOL)**, a simple online tool that acts as your standards management system, allowing access to thousands of key standards in one place. Subscribe to pre-built modules or build a personalized standards collection, saving your organization money, reducing risk, and instilling trust with your clients.

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To reduce the sector's carbon emissions, changes are needed to the design, construction, operation and decommissioning of structures, along with retrofitting to improve the performance of existing building stock. Across the built environment, there are a number of standards that can help to provide you with the necessary best practice framework for success. Discover some of the key standards which can help your organization manage its carbon emissions.

Carbon metric of an existing building during use stage.

Sustainability in buildings and civil engineering works.

Carbon metric of an existing building during use stage.

Calculation, reporting and communication.

BS ISO 16745-2:2017

Design for material efficiency

Verification.

BS 8895 series

in building projects.

## Construction works

#### BS EN 16627:2015

Sustainability of construction works. Assessment of economic performance of buildings. Calculation methods.

#### BS ISO 15392:2019

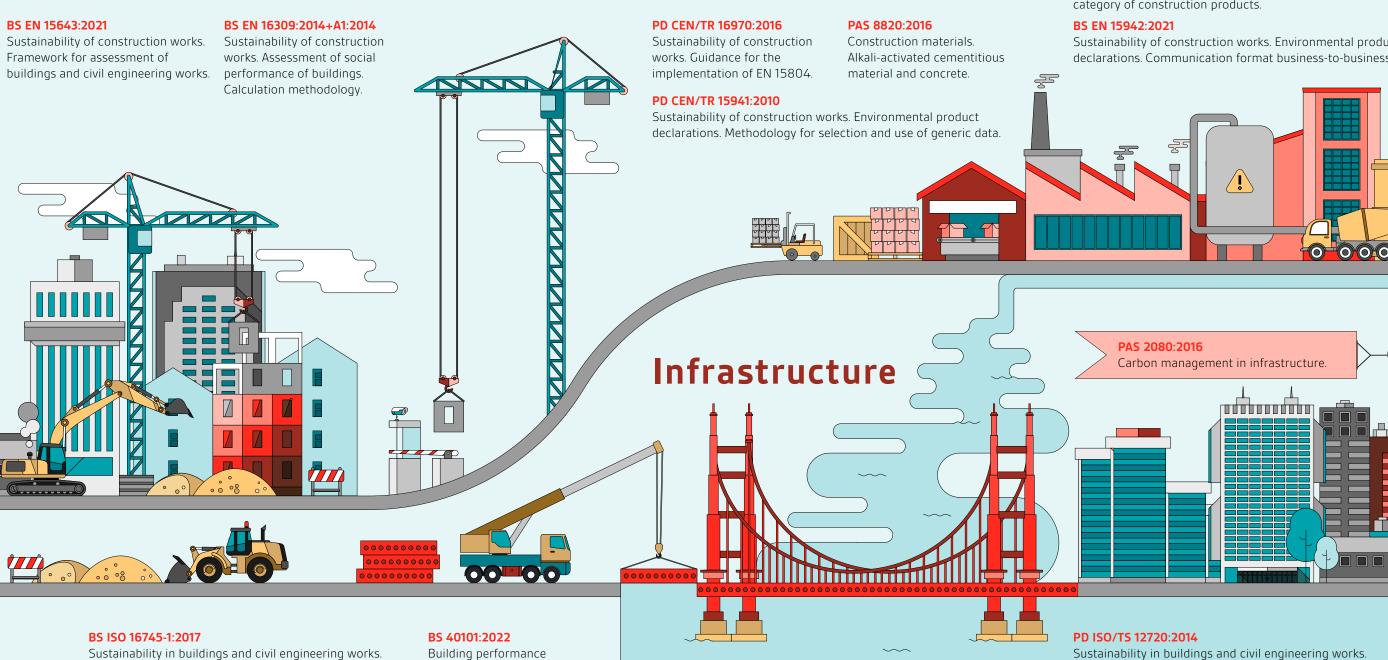
Sustainability in buildings and civil engineering works. General principles.

#### BS ISO 20887:2020

Sustainability in buildings and civil engineering works. Design for disassembly and adaptability. Principles, requirements and guidance.

#### BS ISO 21678:2020

Sustainability in buildings and civil engineering works. Indicators and benchmarks. Principles, requirements and guidelines.



## **Building efficiency**

#### PAS 2035/2030:2019

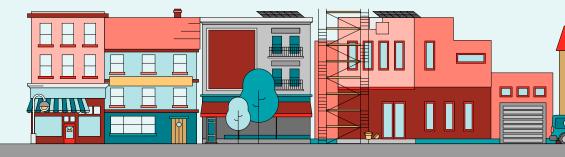
Retrofitting dwellings for improved energy efficiency. PAS 2038:2021

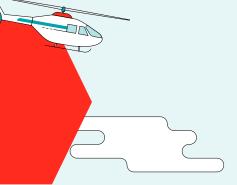
Retrofitting non-domestic buildings for improved energy efficiency.

BS EN 16798 series EPBD Energy Performance in Buildings Directive.

#### BS 5250:2021

Management of moisture in buildings. Code of practice.





## **Construction products** and materials

#### BS EN 15804:2012+A1:2013

Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products.

Sustainability of construction works. Environmental product declarations. Communication format business-to-business.

Sustainability in buildings and civil engineering works. Guidelines on the application of the general principles in ISO 15392.

PD ISO/TS 21929-2:2015

Sustainability in building construction. Sustainability indicators. Framework for the development of indicators for civil engineering works.

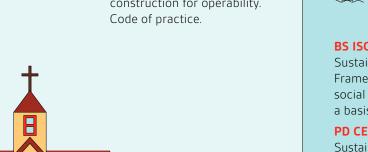
#### BS 9228:2021

Recycling of roads and other paved areas using bitumen emulsion, foamed bitumen or hydraulic material. Materials, production, installation and product type testing. Specification.

#### PD ISO/TR 21932:2013

Sustainability in buildings and civil engineering works. A review of terminology.

PAS 4444:2020 Hydrogen-fired gas appliances.



Sustainability of construction works. Additional environmental impact categories and indicators. Background information and possibilities. Evaluation of the possibility of adding environmental impact categories and related indicators and performance of buildings.

Building performance evaluation of occupied and operational buildings. Specification.

### BS 8536:2022

Design, manufacture and construction for operability.

#### BS ISO 21931-2:2019

Sustainability in buildings and civil engineering works. Framework for methods of assessment of the environmental, social and economic performance of construction works as a basis for sustainability assessment. Civil engineering works.

#### PD CEN/TR 17005:2016

calculation methods for the assessment of the environmental



