

# 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.

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## Construction products and materials

**BS EN 15804**  
Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products.

**BS EN 15942**  
Sustainability of construction works. Environmental product declarations. Communication format business-to-business.

**BS EN ISO 22057**  
Sustainability in buildings and civil engineering works. Data templates for the use of environmental product declarations (EPDs) for construction products in building information modelling (BIM)

**BS EN 17672**  
Sustainability of construction works. Environmental product declarations. Horizontal rules for business-to-consumer communication

**PD CEN/TR 16970**  
Sustainability of construction works. Guidance for the implementation of EN 15804.

**PD CEN/TR 15941**  
Sustainability of construction works. Environmental product declarations. Methodology for selection and use of generic data.

**PAS 8820**  
Construction materials. Alkali-activated cementitious material and concrete.

**BS EN 16309**  
Sustainability of construction works. Assessment of social performance of buildings. Calculation methodology.

**BS EN 15941**  
Sustainability of construction works. Data quality for environmental assessment of products and construction works. Selection and use of data.

**BS EN 15643**  
Sustainability of construction works. Framework for assessment of buildings and civil engineering works.

**BS EN 15978**  
Sustainability of construction works. Assessment of environmental performance of buildings. Calculation method.

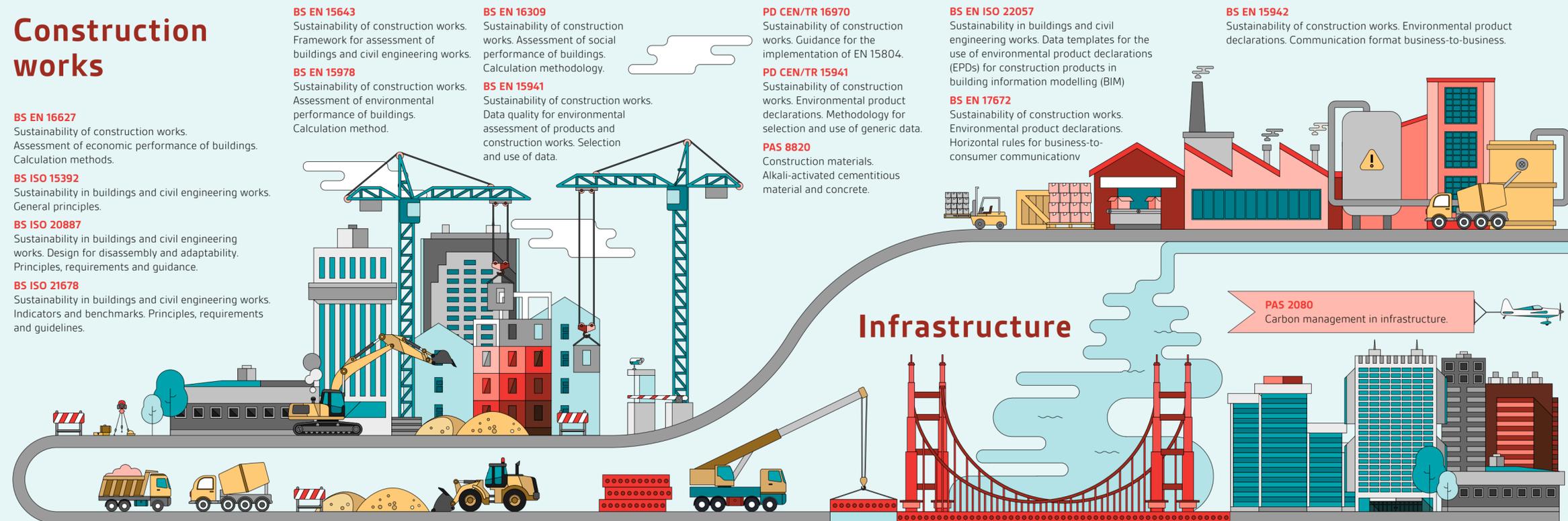
## Construction works

**BS EN 16627**  
Sustainability of construction works. Assessment of economic performance of buildings. Calculation methods.

**BS ISO 15392**  
Sustainability in buildings and civil engineering works. General principles.

**BS ISO 20887**  
Sustainability in buildings and civil engineering works. Design for disassembly and adaptability. Principles, requirements and guidance.

**BS ISO 21678**  
Sustainability in buildings and civil engineering works. Indicators and benchmarks. Principles, requirements and guidelines.



## Infrastructure

**PAS 2080**  
Carbon management in infrastructure.

**PD ISO/TS 12720**  
Sustainability in buildings and civil engineering works. Guidelines on the application of the general principles in ISO 15392.

**PD ISO/TS 21929-2**  
Sustainability in building construction. Sustainability indicators. Framework for the development of indicators for civil engineering works.

**BS 9228**  
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**  
Sustainability in buildings and civil engineering works. A review of terminology.

**PAS 4444**  
Hydrogen-fired gas appliances.

**BS EN 17472**  
Sustainability of construction works. Sustainability assessment of civil engineering works. Calculation methods

**BS ISO 21931-2**  
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**  
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 calculation methods for the assessment of the environmental performance of buildings.

**BS 40101**  
Building performance evaluation of occupied and operational buildings. Specification.

**BS 8536**  
Design, manufacture and construction for operability. Code of practice.

**BS ISO 16745-1**  
Sustainability in buildings and civil engineering works. Carbon metric of an existing building during use stage. Calculation, reporting and communication.

**BS ISO 16745-2**  
Sustainability in buildings and civil engineering works. Carbon metric of an existing building during use stage. Verification.

**BS 8895 series**  
Design for material efficiency in building projects.

## Building efficiency

**PAS 2035/2030**  
Retrofitting dwellings for improved energy efficiency.

**PAS 2038**  
Retrofitting non-domestic buildings for improved energy efficiency.

**BS EN 16798 series**  
EPBD Energy Performance in Buildings Directive.

**BS 5250**  
Management of moisture in buildings. Code of practice.

