

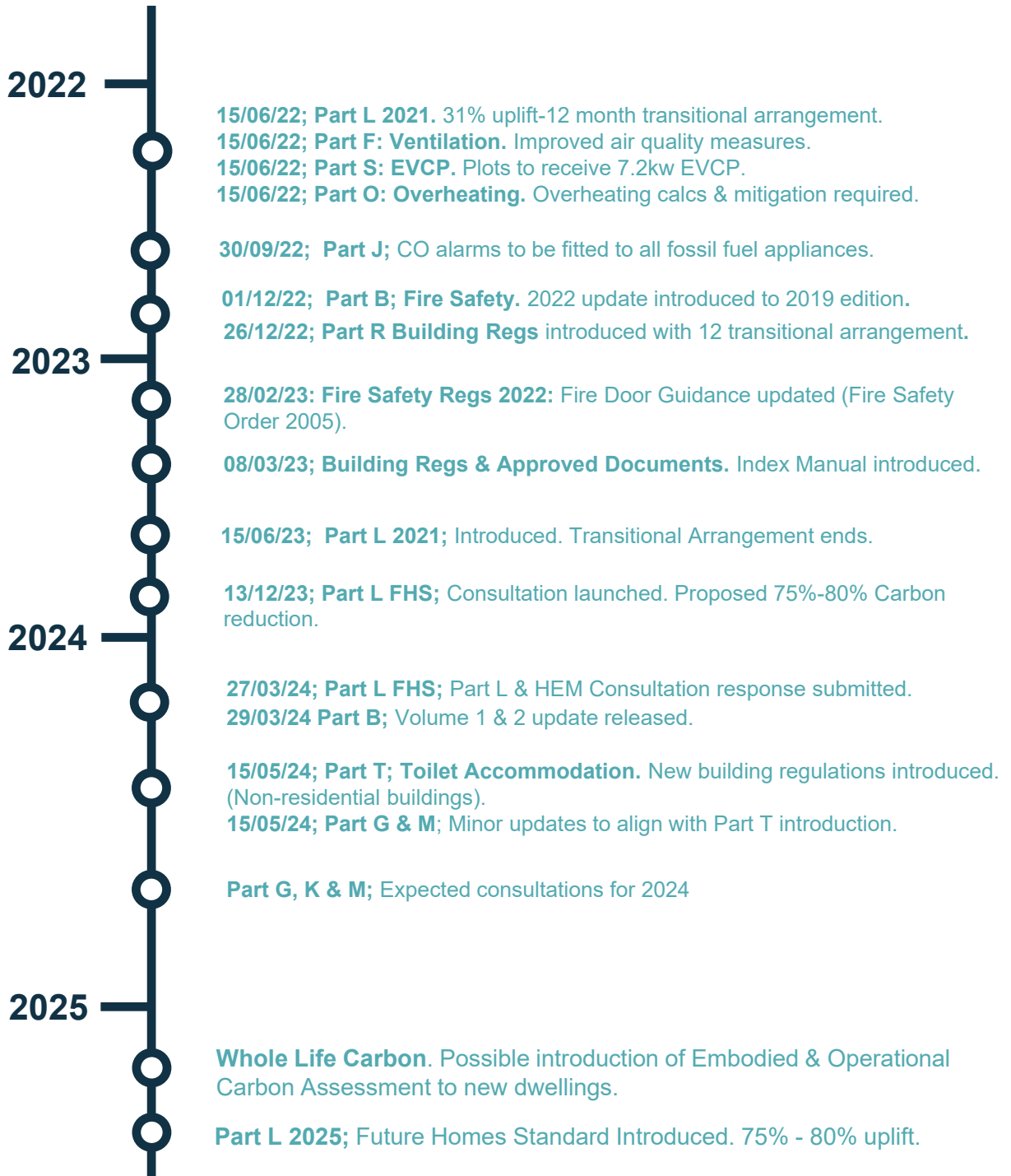


HBF Building Regulations Overview

May 2024



Building Regulations Timeline



| <u>Date;</u> | <u>Revision;</u> | <u>Comment</u> | <u>Author</u> |
|--------------|------------------|---|---------------|
| 01/04/2023 | First Edition. | All regulations A to S. | RHW |
| 21/05/2024 | A | Part T introduction, Part B volume 1 & 2 update. Part G & M minor updates. | RHW |



Building Regulations and Approved Documents May 2024

Introduction

Homebuilding in the UK is undergoing a dramatic change due to the updating of Building Regulations in recent years, resulting in a transformation in how we construct new build homes and carry out alteration work to existing properties. The general strategy of new Building Regulations aims to achieve zero CO₂ emissions by 2050. This includes lowering the CO₂ emissions from buildings and raising the threshold for current overheating, fabric and ventilation regulations as well as continuously aiming to improve the health, wellbeing and general safety standards of UK properties.

Building Regulations aim to protect and enhance the environment, promote sustainable development, and encourage the conservation of fuel and electricity. Building Regulations change and are continuously updated in line with government policy and technical developments. The built environment is currently responsible for around 40% of total UK emissions, 14% of which come from UK homes. The Future Homes Standard which aims to further reduce carbon emissions from homes, comes into effect in 2025 and will mark a significant change in how new properties are constructed in the UK.

June 2022 saw the introduction of two brand new Building Regulations namely, Part S, electrical vehicle charging and Part O, Overheating calculations and heating performance of new dwellings. Substantial updates were also seen to Part L and F as well as changes to Parts J and R. Part L, F, S & R came with the benefit of a 12-month transitional period for those homes commenced with a meaningful start prior to 15 June 2022 with full implementation of the regulations required after the 15 June 2023.

2024 has seen further consultations and amendments such as updates to Part B volume 1 & 2. Consultations are expected to Part M for improving disabled access and allowing for future adaptability of properties. Changes are also anticipated to Part K to review fall arrest and the ability to move more safely in and around new properties. Part G will be consulted upon to review water consumption rates in new build properties in addition to the introduction of a brand new building regulation Part T-Toilet accommodation.

A full schedule of all current Building Regulations and relevant associated standards is detailed below with those regulations affected by updates shown in [blue highlighted text](#).



Building Regulations and Approved Documents index

Introduced; 8 March 2023 Guidance

Content; A new manual created following Dame Judith Hackitt independent review of the Building Regulations & Fire Safety. A manual that provides guidance and a high level overview of how Building Regulations work. A summary & guidance document aimed towards understanding and using Building Regulations.

Fire Safety Regulations 2022; Fire Door Guidance (Fire Safety Order 2005)

Latest Version; 28 February 2023

Content; The changes affect the duties of the responsible persons including building owners & persons having control of the premises under regulation 10 of the Fire Safety Regulations. Information about entrance doors & fire doors must be given to all residents with routine checks of all fire doors must be kept in blocks of flats over 11m in height.

Approved Documents

Approved Document A; Structure

Latest Version; 1 September 2013

Content; Design standards and guidance for the structural stability and safety of all buildings and provides direction on how not to affect the structural integrity of other buildings. Information included covers structural loading, including safe standards for building foundations, disproportionate collapse i.e. a building's ability to stand in the event of an accident, and ground movement potential, including subsidence. The document includes diagrams detailing different areas of construction, including roof frames and brick walls, and provides design rules for masonry and timber works for traditional houses.



Approved Document B; Fire safety

Latest Version; 1 December 2022 (Part B 2019 with 2020, 2022 & 2024 update).
29 March 2024 Part B Volume 1 & 2 update.

Content; Building regulations for fire safety in residential homes, including new and existing dwellings, flats, residential accommodation, schools, colleges and offices.

Amendments: 29 March 2024 update to Part B volume 1 & 2 come into effect on 30/09/26. Introduction of secondary stairs at 18m. Protected lobby and corridor introduced. Travel distances to escape stairs amended. Sprinklers introduced to buildings at 11m from previous 30m. Wayfinding signage introduced to buildings over 11m. Ban on combustible materials on external walls. Provision of secure information boxes on buildings over 11m. Evacuation alert systems in buildings over 18m.

Approved Document C; Site preparation and resistance to contaminants and moisture

Latest Version; 3 September 2013

Content; Clearance or treatment of unsuitable material, resistance to contaminants and sub-soil drainage. Resistance to moisture of floors, walls and roofs, damp proofing & ventilation provisions.

Approved Document D; Toxic substances

Latest Version; 2 December 2010 (Part D 2013 minor update)

Content; Toxic substances with the use of insulating materials in cavity walls & the prevention of toxic fumes entering the building.

Approved Document E; Resistance to sound

Latest Version; 4 March 2015

Content; Resistance to the passage of sound within dwellings. Sound insulation requirements in dwelling-houses, flats, rooms for residential use & schools.



Approved Document F; Ventilation

Latest Version; 15 June 2022 (with 12 month transitional arrangement to 15/06/23)

Content: Ventilation requirements to maintain indoor air quality

Amendments: Increased air tightness in dwellings has resulted in a requirement for improved air quality measures by increased minimum whole house ventilation rate. The use of Intermittent extract fans & natural ventilation is harder to achieve generally with an increase in whole house ventilation values.

Approved Document G; Sanitation, hot water safety and water efficiency

Latest Version; 9 March 2016 incorporating **15 May 2024 update**

Content; Standards required for cold water supply, water efficiency, hot water supply and systems, sanitary conveniences and washing facilities, bathrooms and kitchens and food preparation areas. Optional requirement for tighter water efficiency in regulation 36. Water efficiency calculator to be completed for new build dwellings.

Amendments: Minor update to align with the introduction of Part T, toilet accommodation.

Approved Document H; Drainage and waste disposal

Latest Version; 1 October 2015.

Content; Details of foul water drainage, both above and below ground, pipe sizes, protection of pipes, manholes and inspection chambers. Advice on refuse storage of solid waste materials for dwellings, waste disposal, treating waste water, pollution prevention, and the use of appropriate, separate drainage systems. Guidance covers the building of hygienic pipework, discharges and cesspools, and the guidelines for building over and around sewers.

Approved Document J; Combustion appliances and fuel storage systems

Latest Version; 30 September 2022.

Content; Air supply, discharge of combustion products and protection of the building for solid fuel, gas and oil appliances, along with the provision of information for hearths, fireplaces, flues & chimneys.



Amendments; Minor amendments including carbon monoxide alarms should comply with British Standard BS EN 50291. A carbon monoxide alarm should be fitted

upon the installation of fixed combustion appliances that burn solid fuels, gas & oil fuels. CO detectors required in new or replacement fixed combustions appliances i.e gas boilers in existing homes. CO alarms to be battery powered with warning and alert detection systems for battery life. Mains fitted CO alarms to have sensor failure warning. CO detector to be positioned in same room as appliance, 300mm from wall and within 1m-3m of the appliance.

Approved Document K; Protection from falling, collision and impact

Latest Version; 3 January 2013.

Content; Protection from falling, collision and impact and includes designing staircases, ladders, ramps, guarding and vehicle barriers in and around all types of buildings.

Approved Document L; Conservation of fuel & Power

Latest Version; 15 June 2022 (latest update 02/02/23 with 12 month transitional arrangement to 15 June 2023).

Content; Conservation of fuel & power in new build properties establishing higher performing new build & existing dwellings.

Amendments; 31% uplift in fabric & energy performance to new build dwellings. Dwellings will be assessed under SAP 10.6 Introduction of a BREL assessment (Building Regulations England part L) under SAP where detailed photographs are required for each dwelling-(see appendix B, Part L 2021). U values are lowered under the introduction of FEES (Fabric Energy Efficiency Standards). Minimum performance standards of doors 1.8w/m²k to 1.4, walls 2.8W/m²k to 1.8W/m²k, windows & roofs 1.6 to 1.4 are all increased. Maximum flow temperatures of 55 degrees are introduced for central heating systems (previously 75 degrees) resulting in larger surface area radiators taking account for reduced heat output making the properties better suited for retrofit Heat Pumps in later years.



Approved Document M; Access to and use of buildings

Latest Version; 1 March 2015 incorporating 2016, 2021 & **15 May 2024 update**.

Content; Access to and use of buildings in dwellings and buildings other than dwellings & providing a baseline for accessibility in the built environment. Volume 1; Dwellings.
M4(1) Visitable dwellings, M4(2) Accessible & adaptable dwellings, M4(3) Wheelchair user dwellings. Note; Regulation M4(1) is mandatory for all new build dwellings unless one of the 'optional' requirements i.e. M4(2) or M4(3) applies e.g. via planning requirement or some other request.

Amendments: Minor update to align with the introduction of Part T, toilet accommodation

Approved Document O; Overheating

Latest Version: 15 June 2022 (12 month transitional arrangement for work commenced prior to 15/06/22).

Content; Overheating mitigation requirements of the building regulations as set out in Part O of Schedule 1 to the Building Regulations. To protect occupants from overheating in new homes and limit excess solar gain & provide measures to quickly remove excess heat from an indoor environment. Issues remain with its impact on thermal modelling TM59 calculator & the simplified method-postcode, location, orientation (Section 1, Part O). Issues remain with sizing/positioning of windows and openings and clashes with Part K fall arrest & safety and security/noise related issues.

Approved Document P; Electrical safety

Latest Version; 1 January 2013.

Content; Design, installation, inspection, testing and provision of information is explained. The technical requirement for electrical work in dwellings. The types of electrical work that are notifiable. The different procedures to be followed to ensure electrical work is compliant with part P.

Approved Document Q; Security in dwellings.

Latest Version; 5 March 2015.

Content; Performance standards for doors and windows to resist physical attack by a burglar. Standards being both sufficiently robust and fitted with appropriate hardware. Requirement Q 1 Schedule 1 of Building Regulations applies only in relation to new dwellings and provides that reasonable provision must be



made to resist unauthorised access to any dwelling; and any part of a building from which access can be gained to a flat within the building.

Approved Document R; Infrastructure for Electronic Communications.

Latest Version; 26 December 2022 (with 12 month transitional arrangement).

Content; Physical infrastructure for electronic communications requirements of the building regulations for new build dwellings Approved Document R volume 1.

Amendments; To ensure that new build dwellings constructed are always provided access to and are future-proofed for high performance gigabit ready physical infrastructure. Gigabit ready infrastructure is provided to a network distribution point in and around a new development site or as close as possible to a network distribution node point. Implementation is subject to a £2000 cost cap per dwelling or the next possible fastest connection available. The aim to provide future proofed gigabit capable broadband infrastructure even if current provisions don't exist.

Approved Document S; Infrastructure for Charging Electric Vehicles.

Latest Version; 15 June 2022.

Content; Installation and charge point requirements in Part S to the Building Regulations. Provision & installation including all ductwork for a 7.2Kw active EVCP charger equal to 1 per dwelling. Provision of cable routes installed in any associated parking spaces which do not have electric charge points. A price cap of £3600 per charge point. Where not possible, cable routes are to be installed to all those respective parking areas remote to curtilage of property including apartments, open air & under croft parking areas.

Approved Document T; Toilet Accommodation (Non residential buildings).

New Regulation; 15 May 2024

Content; New regulation to always ensure that separate toilets for men and women are provided to always ensure privacy & dignity to all age groups including safety to women and children. Consideration towards a unisex toilet only where space allows and to ensure that if a unisex toilet is provided then privacy, safety & security is ensured at all times with fully enclosed hand washing facilities i.e. en-suite facility. Sanitary provision is currently captured under parts G & M of the building regulations. Respective amendments to those documents will be made in due course to reflect the new Part T.





Approved Document ; Materials and Workmanship

Latest Version; 29 November 2018.

Content; Setting standards of the building materials and skills used in construction. The requirement for carrying out building work using the proper materials and in a workmanlike manner.

(Document Ends).



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