

System Review certificate

NHBC Services Ltd confirms that

System owner: MBC Timber Frame (UK) Ltd

System name: Twin Wall System

System manual: MBC-SM-001 v1 Rev E (06/11/2025)

has been reviewed by the NHBC System Review team and as detailed in the System Manual can meet the NHBC Technical Requirements, subject to the exclusions and limitations listed in this certificate.

This certificate is valid until such time as it is no longer published or authorised by NHBC. Readers are advised to check the validity and latest issue number of this certificate by either referring to our website at nhbc.co.uk/systemreview or contacting NHBC directly.

NHBC Services Ltd has undertaken a technical review of the System manual as set out in line with the NHBC System Review Technical Document for Innovative systems. The NHBC System Review Service is intended solely to provide confidence that the Innovative system meets NHBC Standards and is not intended as evidence of performance for any other purpose. Appraisal of the Innovative system against building regulations is not carried out as part of this Service.

NHBC reference: 4356

First issued: 11/11/2025

Version number: 01.2

Revised on: 13/01/2026

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NHBC reference: 4356.01.2

System description

The MBC Timber Frame Twin Wall System is an offsite manufactured closed panel timber frame system. It is classified as a Category 2 system for external walls only. Panels are fabricated using C16 grade timber studs at 600mm centres. Twin studs are separated with blocking timbers and nail plates. Panel widths typically range from 300mm to 550mm. The external face incorporates a 12.5mm breathable MDF sheathing which provides the required racking resistance. A breather membrane is installed over the external sheathing. The internal face is lined with airtight OSB panels. The OSB provides integrated vapour control and air barrier performance. All internal OSB junctions are sealed with Partel Conexo Multiseal tape.

Timber battens are fitted internally to form a service void. Blown cellulose insulation is installed on site into the wall cavities. The system is intended for use in England and Wales only. It is suitable for houses up to three storeys. Flats are permitted where the top floor is no more than 5m above ground level. Structural design is site specific and dependent on local conditions. MBC Timber Frame (UK) Ltd are STA Assure Gold Members. A service life of 60 years has been declared for the system. Steps, staggers, and balconies require project specific or independent design.

Exclusions and limitations

Additional requirements must be met in order for a new home to qualify for Buildmark cover. Buildmark cover for new homes will only be issued to Builders or Developers in accordance with the latest version of the NHBC Rules (a copy of which can be found at [nhbc.co.uk](https://www.nhbc.co.uk)).

- The maximum wall panel loading is 12 kN/m or 7kN per stud.
- The System is limited to the materials specified in Fire Test Report: Efectis R002147.
- Foundations, sub-structures and floor slabs are excluded.
- 140mm stud wall, Internal Walls and Separating Walls are excluded.
- Intermediate Floors, Separating Floors, Roof Structures and Roof Coverings are excluded.
- MEP is not covered by this certificate.
- Lightweight Facades are excluded.
- Standard Details should be reviewed on a project specific basis.