



Innovative system Acceptance Certificate

Issue date: 07/07/25
Reference number: 3884
Issue: 01
Innovative System Owner: ITW Ltd (T/A ITW Construction Products)
1 Wheatstone Place
Glenrothes
Fife
KY6 2SW
Innovative System Name: Gang-Nail Truss Frame
Generic form: Panelised Timber Frame

NHBC Services Ltd has reviewed the following information (collectively referred to as the System Manual) related to the Innovative System supplied by the Innovative System Owner:

- Gang-Nail Truss Frame ETA-23/0625 dated 18/09/2023
- Gang-Nail Truss Frame Technical Guide EC5, Rev.F dated 03/06/2024
- Gang-Nail Truss Frame Site Installation Guide, Rev.A dated 03/06/2024

Relying on the information provided by the Innovative System Owner, NHBC Services Ltd considers that the Innovative System can meet NHBC Standards.

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 www.nhbc.co.uk).

This acceptance 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 www.nhbc.co.uk/accepts or contacting NHBC directly.

Issued by:

A stylized, handwritten signature in black ink, appearing to be 'J. R.', is positioned above the title of the signatory.

Technical Operations Manager
NHBC Services Ltd



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Description, Scope and intended use.

Gang-Nail Truss Frame is a timber frame wall system with all members connected using punched metal plate fasteners. The System Owner provides design guidance and supplies the Gang-Nail plates for timber frame fabricators to produce structural timber framed wall elements. Wall panels formed using the System incorporate diagonal (bracing) members connected by punched metal plate fasteners. These provide strength and stability to the panels and remove the need for external sheathing boards. The punched metal plate fasteners are independently assessed to the requirements of BS EN 14545:2008 and the manufacture of these panels are covered under BS EN 14250:2010.

Gang-Nail Truss Frame is intended for use in buildings as load bearing and racking resistant elements in external and internal walls above DPC level. They are for use in Service Classes 1 and 2 as defined in EN 1995-1-1 and in Use Classes 1 and 2 as defined in EN 335-1 and 2.

The System can be used for external and internal walls in dwelling houses up to four storeys where the top storey does not exceed 11m from the lowest external ground level. The System is expected to have a service life of not less than 60 years.

Extent of review for NHBC Warranty on NHBC Registered Sites

NHBC Services Ltd has undertaken a technical review of the System Manual as set out in line with the NHBC Accepts Technical Document for Innovative Systems. The NHBC Accepts 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 Accepts is not an independent accreditation scheme or any form of performance guarantee and third parties should engage with the relevant manufacturer on performance of their product. No documentation, information and advice relating to NHBC Accepts may be adapted, disclosed, or distributed to any third party. NHBC Services Ltd accepts no duty of care and assumes no responsibility to any third party. Any third party who chooses to rely upon an NHBC Accepts certificate (or any documentation, information and advice relating to the NHBC Accepts service) shall do so entirely at their own risk and NHBC Services Ltd accepts no duty of care or liability for any damage or loss, however caused, in connection with the use of or reliance on any documentation, information and advice relating to NHBC Accepts.



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Exclusions and Limitations

This Acceptance Certificate is made out solely to the System Owner. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the System Owner arising out of, or in connection with, this Acceptance Certificate.

Exclusions and limitations are set out in the System Manual. Additional considerations in the use of the Innovative System include:

- The overall design and structural limitations of wall panels fabricated from the System must be assessed on a project-by-project basis by a suitably qualified Structural Engineer.
 - Wall panels that incorporate the System should carry UKCA/ CE marking, applied by the timber frame manufacturer.
 - Gang-Nail Truss Frame is not considered suitable for Service Class 3 conditions.
 - The System cannot be used to form closed panel walls and it is to be used only in conjunction with a masonry outer leaf and minimum 50mm clear cavity.
 - All non-structural performance characteristics of wall panels fabricated from the System are excluded from this certificate and must be justified on a project specific basis.
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