

Innovative system Acceptance Certificate

Issue date:		14/03/2023
Reference number:		4073
Issue:		01
Innovative System Owner:	Fusion Steel Framing Limited	
	The Power House Powdermill Lane Waltham Abbey EN9 1BN	
Innovative System Name:	FusionX	
Generic form:	Light Gauge Steel Panelised	

NHBC Services Ltd has reviewed the following information (the System Manual) related to the Innovative system supplied by the Innovative Product Owner:

- SCI/NHBC System Manual for the FusionX Building System, Rev B 14.11.22
- SCI / NHBC Stage 1 System Certification Fusion Steel Framing Ltd Certificate Number 20251002

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 <u>www.nhbc.co.uk</u>).

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 <u>www.nhbc.co.uk/accepts</u> or contacting NHBC directly.

Issued by:

Innovation Manager NHBC Services Ltd

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Description, Scope and Intended use

FusionX is a light gauge steel panelised system designed for residential structures up to 10 storeys in height, where a fire rating of either 60 or 90 minutes is required. The system may be used to form external and internal loadbearing walls, non-loadbearing internal walls, infill panels, separating walls, intermediate and separating floors.

The system uses cold rolled galvanised C-sections for wall studs and floor joists designed accordance with BS 5950-5 and BS EN 1993-1-3. The wall studs and floor joists are generally grade S390 produced to BS EN 10346: 2015, +Z275 and are available in a range of depths and gauges.

Fusion Building Systems roll forms all its own light gauge steel components and then assembles them into wall panels or floor cassettes in the factory. Panels can be pre-boarded as required in the factory in advance of going to site. Internal and external lining boards are outside the scope of the system and require design and specification on a project specific basis.

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 systems against building regulations is not carried out as part of this Service.

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:

Internal and external fire rated lining boards and suitable associated fire stopping is to be designed and specified and a project specific basis. Representative fire test evidence or



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appropriate supporting information must be provided to demonstrate adequate fire resistance to all exposed faces of the structural frame.

- Fire test compliance should be designed with the limits of the range of application of the load ratio method set out in the SCI Fusion Fire Letter dated 9th April 2019.
- FusionX is limited to residential structures up to 10 storeys in height, where a fire rating of either 60 or 90 minutes is required