



Innovative system Acceptance Certificate

Issue date: 23/08/24
Reference number: 4286
Issue: 01
Innovative System Owner: Akela Ground Engineering Ltd
Radleigh House, 1 Golf View,
Clarkston, Glasgow, G76 7HU.
Innovative System Name: ABEAM Precast Foundation System
Generic form: Precast concrete ground beams

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

- ABEAM Structural Design Philosophy, Reference AP EB 01#02
- ABEAM System Manual, Reference AP EB 02#02
- ABEAM Design & Development Manual, Reference AP EB 03#01
- ABEAM Production Manual, Reference AP EB 04#02
- ABEAM Site Installation Process Manual, Reference AP EB 05#02

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:

Technical Innovation Manager

NHBC Services Ltd



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Description, Scope and intended use.

The Akela Ground Engineering Ltd's ABEAM Precast Foundation System comprises precast concrete ground beams with proprietary joint components manufactured by Leimet Ltd for beam-to-beam connections. Akela Ground Engineering Ltd are responsible for the design, production and installation of the System. The beams are 450mm x 450mm in cross-section and are reinforced with continuous 16mm or 20mm diameter steel reinforcement bars top and bottom, with 7mm helical coil shear reinforcement.

The System is intended for use in low rise housing up to three storeys in the United Kingdom.

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.

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.



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

- The System is subject to project-specific structural design by a Chartered Structural Engineer to suit ground conditions as identified within the Site Investigation Report.
 - The use of the System within soils subject to clay heave or where piles are required to resist tension is outside the scope of the Accepts certification.
 - The System is not suitable for use in ground conditions which are conducive to Design Chemical Class DC-4 or above.
 - The use of the System where the horizontal pile tolerance exceeds +/- 75mm is outside the scope of the Accepts certification.
 - The design and specification of supporting piles and pile caps are outside the scope of the Accepts certification.
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