

System Review certificate



NHBC Services Ltd confirms that

System owner: Akela Ground Engineering Ltd

System name: ABEAM Precast Foundation System

System manual: ABEAM System Manual Ref. AP-EB-02#02

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: 4286

First issued: 23/08/2024

Version number: 01.2

Revised on: 26/01/2026

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NHBC reference: 4286.01.2

System description

The ABEAM Precast Foundation System consists of pre-cast concrete ground beams with proprietary Leimet joint components for beam-to-beam connections. Akela Ground Engineering Ltd retains responsibility for the structural design, manufacture, and installation of the System.

The beams have a 450mm x 450mm cross-section, and are reinforced with continuous 16mm, or 20mm diameter steel reinforcement bars at the top and bottom, together with 7mm helical coil shear reinforcement.

The System is intended for use in low-rise residential buildings of up to three storeys in the United Kingdom.

NHBC review also bases on the ABEAM Structural Design Philosophy AP EB 01#02, ABEAM Design & Development Manual AP EB 03#01, ABEAM Production Manual AP EB 04#02 and ABEAM Production Manual AP EB 05#02.

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).

- The System requires project-specific structural design by a qualified Structural Engineer, informed by the Site Investigation Report, and prevailing ground conditions.
- Use of the System in soils susceptible to clay heave, or where piles are required to resist uplift are outside the scope of the System Review certification.
- The use of the System, where the horizontal pile tolerances exceed $\pm 75\text{mm}$ is outside the scope of the System Review certification.
- The design and specification of the supporting piles and pile caps are outside the scope of the System Review certification.