

SALTBOX BUSINESS PARK

Shripney Road, Bognor Regis

The project

The construction of 204,993 sq ft of industrial space at the gateway to Enterprise Bognor Regis, a 70-hectare government backed development

The challenge

The units were being constructed over 4-5m of low strength clay and chalk deposits. The main challenge was to provide a ground improvement solution which could limit settlements to <25mm under a combination of relatively high slab loadings and localised upfilling.

The solution

Keller offered a combination of Rigid Inclusions and Vibro Stone Columns for a selection of units. The Vibro Stone Columns were proposed as an alternative to Rigid Inclusions for the smaller and more lightly loaded units with Rigid Inclusions being adopted elsewhere. The Rigid Inclusions were installed using fully displacement methods and designed for a bearing capacity of 200kN/m². The Vibro Stone Columns were designed for 150kN/m².

Key achievements

- Achieved high capacities and tight settlement control.
- Facilitated the adoption of simple spread footings and ground bearing slabs.
- Achieved rapid installation – foundation works following immediately behind.
- Reduced the carbon impact by offering a combination of solutions.

Project information

Application

Bearing Capacity and Settlement Control

Technique

Rigid Inclusions
Vibro Stone Columns

Sector

Commercial

Client

Kier Logistics (Bognor) Ltd

Main contractor

Mildren Construction Ltd

Contract value

£600,000

Keller companies

Keller UK

Contact

Rob Herring
07767 446830
rob.herring@keller.com



Keller Proposal
c475t C02e

Original Scheme
c575t C02e

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