

BEWI HeaveMaster GHP

Installation Guide

BEWI HeaveMaster provides a stable platform to support a specified depth of wet concrete during construction and, a fully-tested cellular core that will collapse under the specified fail-load pressure to limit damage caused if upward pressure occurs.

BEWI HeaveMaster GHP (Ground Heave Protection) cellular collapsible void formers are supplied in a range of grades and depths to suit your specification.

Each void former is engineered to protect the foundations of buildings against the damage caused by the upward pressure of clay or ground heave in a specific situation.

Product identification

All HeaveMaster GHP panels are clearly labelled, confirming the product type, depth, grade and dimensions.

Product Selection & Suitability

The suitability of HeaveMaster GHP for the application should be based on the recommendation and specification of the Project design Team and in accordance with the following:

- NHBC guidance (where applicable)
- BBA Agreement Certificate No. 20/5828
- HeaveMaster GHP Technical Datasheet

Delivery, storage and site handling

- The product is normally delivered to site shrink-wrapped in polythene.
- Each unit carries a label bearing details of the product type, grade, length, width and overall depth.
- The panels must be stored flat and be protected from high winds and prolonged exposure to sunlight.
- Contact with solvents and organic based materials should be avoided.
- HeaveMaster GHP must not be exposed to flame or ignition. Careful consideration should also be given to the management of fire risk when in storage.
- HeaveMaster GHP panels will adequately resist normal foot traffic and other short-term loads normally associated with installation, and can be used without further protection.
- Heavy foot traffic directly on the HeaveMaster GHP – Beam panels, particularly the edges, should be avoided.
- During construction, spreader boards are recommended to reduce the imposed load transmitted to the panels.

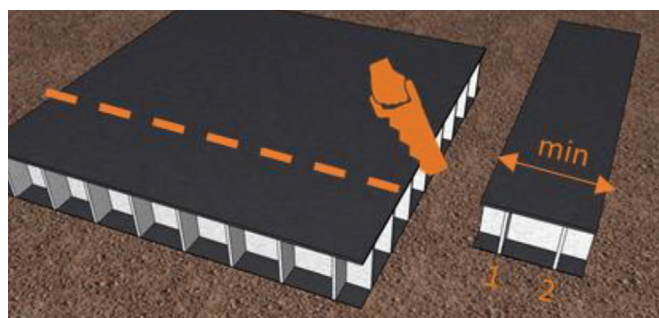


Preparation

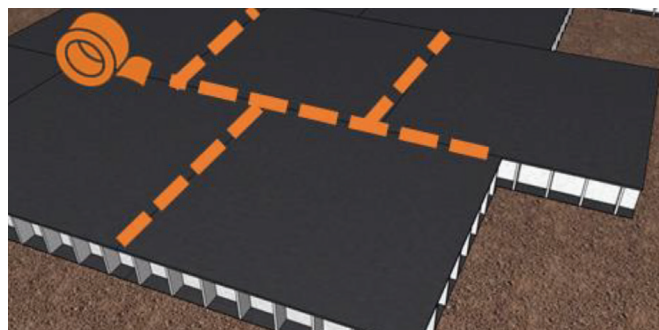
Ensure that the bottom of the excavation is compacted and blinded with a layer of concrete or sand/cement.

Procedure

Place HeaveMaster GHP on a firm, levelled surface.



When required, cut the product with a finetoothed saw. Take care to ensure that, after cutting, exposed ends of the cellular stiffening ribs do not exceed a maximum length of 70mm and a minimum overall length of the panel of 300mm.



For slab application, the joints of HeaveMaster GHP panels should be staggered. Seal the joints between panels with formwork tape.

For more information:

bewi.com e-mail: sales.insulation.uk@bewi.com Tel: 0870 600 3666

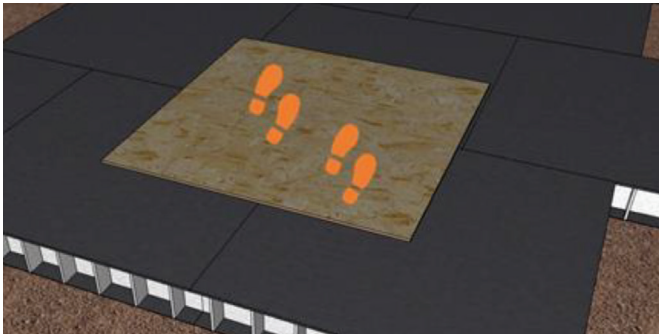
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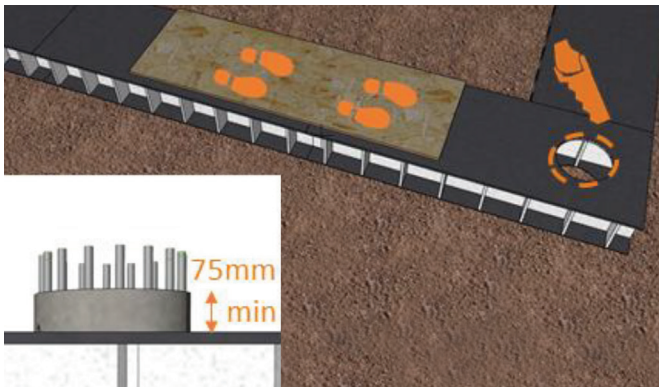
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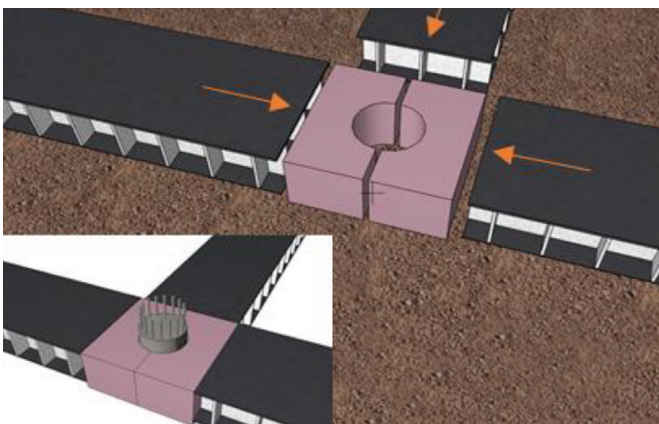
Procedure *(continued)*



Heavy foot traffic directly on the edges of HeaveMaster GHP panels should be avoided. Use walking boards to spread the loads.



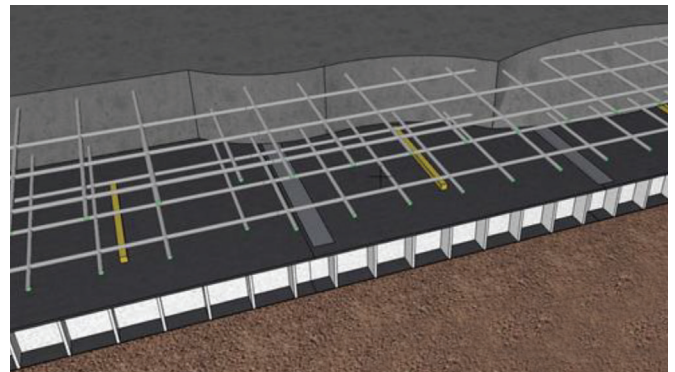
For piled ground beams trim the top of each pile so that it extends slightly above the proposed underside of the ground beam. Each pile should penetrate the void former to allow for an approximate 50mm thickness of concrete blinding on top where applicable, and a keying depth of approximately 25mm into the ground beam.



Alternatively, around complex pile areas you can install Pile collars.



Place fitting Spacers to have a base area of sufficient size, and position them at appropriate centres, to ensure that the maximum imposed load beneath each spacer is appropriate to the grade of panel used.



Fix the Reinforcement to ensure that the correct depth of concrete cover is achieved, and to ensure that the maximum imposed load beneath each support is appropriate to the grade of panel being used.

Cover the panels with a 50 mm thickness of concrete blinding where heavy reinforcement is proposed, or where the reinforcement will be subjected to significant point loads from foot traffic or other imposed loading. See BBA Certificate Number 20/5828 for further information.

Concrete should be placed with care to avoid overloading the panels.

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