



THE REVOLUTIONARY GROUND HEAVE SOLUTION

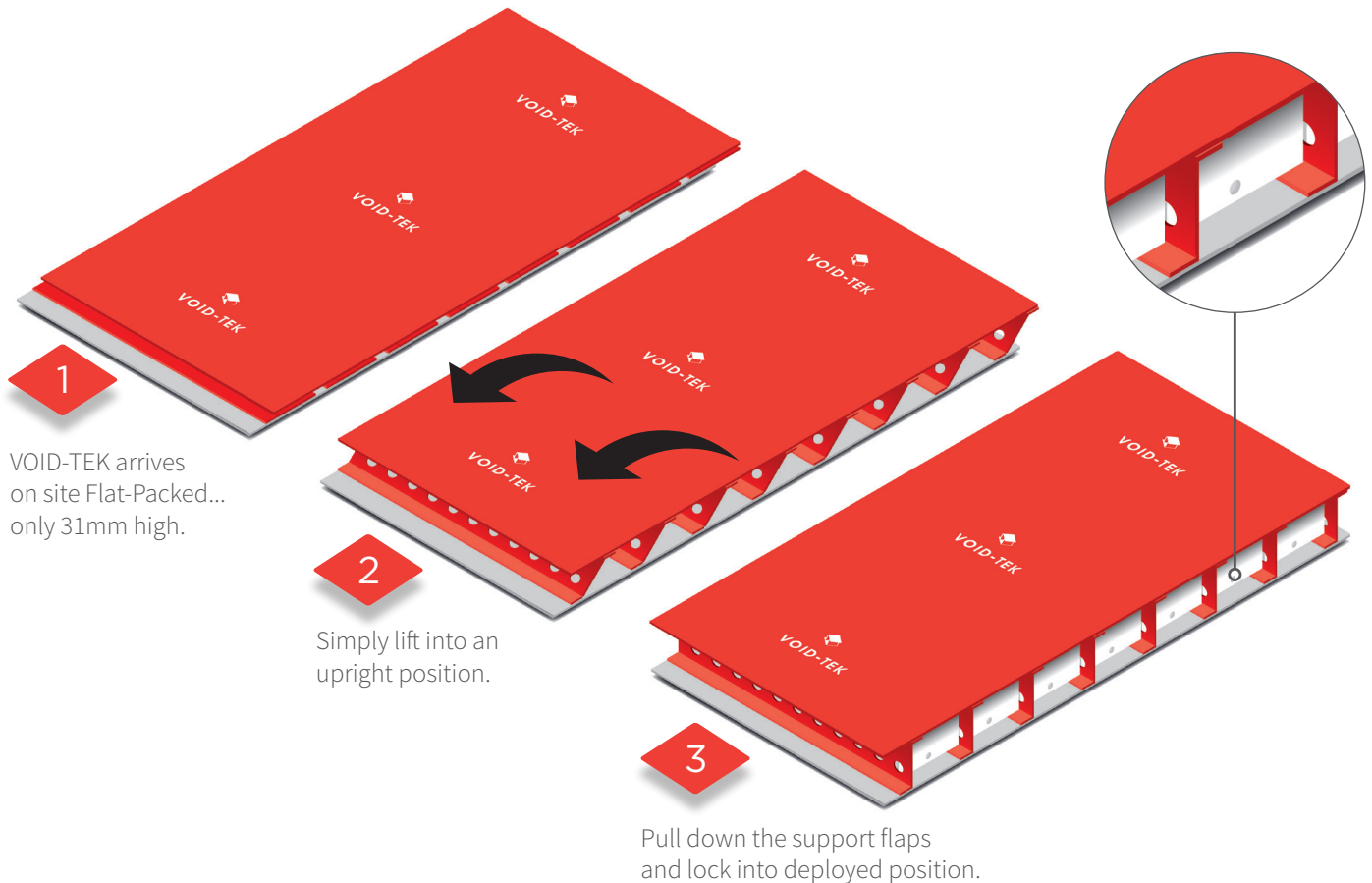


VOID-TEK

SAVES TIME, SPACE AND COST

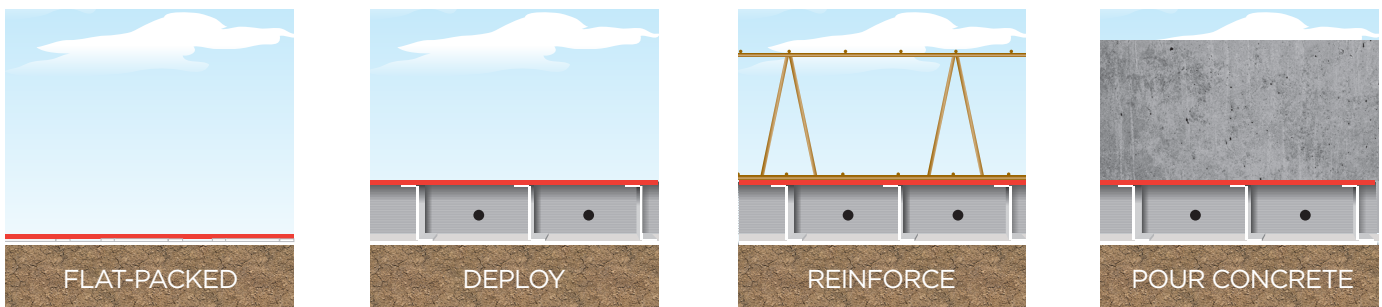
INTRODUCING VOID-TEK TECHNOLOGY.

THE REVOLUTIONARY SPACE SAVING & COST SAVING HEAVE PROTECTION PANEL.



ADVANTAGES

VOID-TEK Presents some unique advantages over conventional void former systems as follows;



- ✓ **REDUCES DIG**
Saving labour & muck away costs
- ✓ **FLAT-PACKED ON ARRIVAL**
Vast reduction in transport costs and less space needed for storage
- ✓ **DEPLOYS IN SECONDS**
Quick to assemble, less breakage and easy to cut with minimal mess
- ✓ **POLYSTYRENE FREE / HIGH STRENGTH**
Made from polypropylene fluted board - no crushing/snapping & better for the environment

REVOLUTIONARY STRENGTH & FLEXIBILITY.



ZERO POLYSTYRENE

VOID-TEK is made entirely from Polypropylene Fluted Board which has high strength and durability. In contrast, conventional heave protection systems that are constructed with a polystyrene core are easily damaged and are liable to break and crumble, reducing performance, increasing an already unpredictable wastage allowance and ultimately cost.



STANDS UP TO THE TEST

The high strength and durability of the VOID-TEK flat-packed design, minimises damage wastage. Even when deployed into position, it is very difficult to damage under foot. When minimal waste is generated, there are no messy polystyrene chips to dispose of.

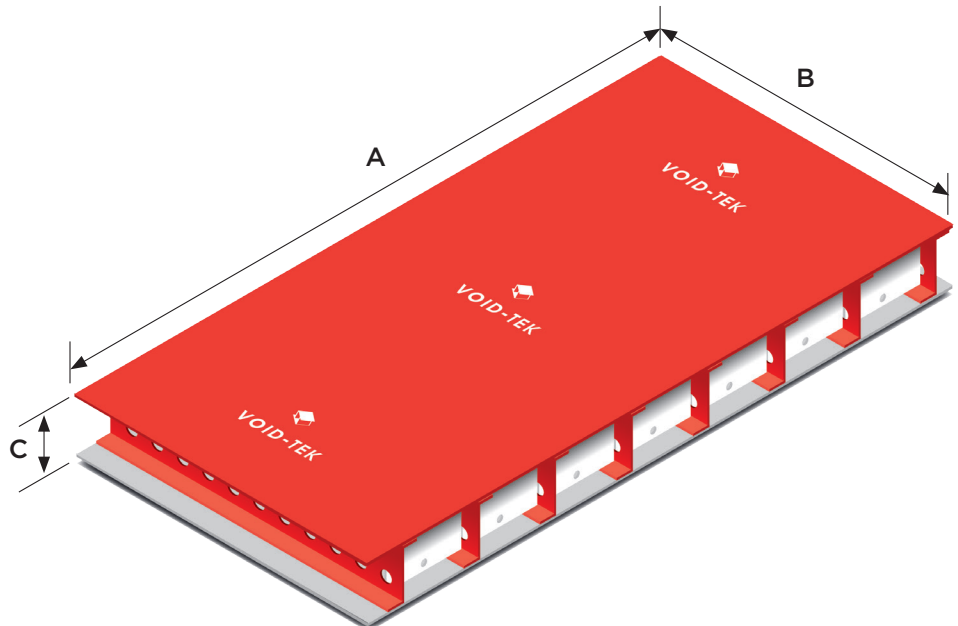


SHAPING UP FOR THE JOB

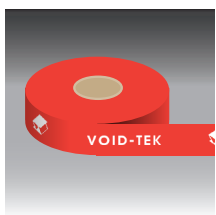
VOID-TEK is extremely easy to cut with a compact Stanley knife, due to the hollow and polystyrene free nature of the construction. VOID-TEK can also be ordered and configured to specific size requirements for use beneath reinforced concrete ground beams and pile caps.

DIMENSIONS

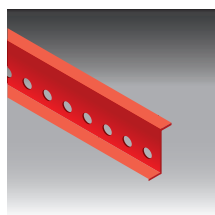
A	Length	flat pack	2550mm
		assembled	2400mm
B	Width	flat pack	1200mm
		assembled	1200mm
C	Depth	flat pack	31mm
		assembled	VT150 - 190mm
			VT100 - 140mm
			VT50 - 78mm



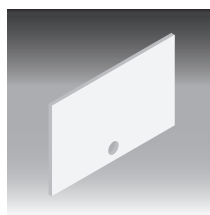
ANCILLARY PRODUCTS



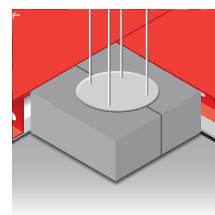
VOID-TEK
Tape 50mm x 50m



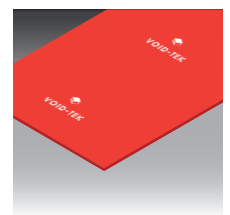
VOID-TEK
Central Fin 10 Pack



VOID-TEK
Interlock Fin



VOID-TEK
Pile Collar



VOID-TEK
Vertical Void Former

HEAVE PROTECTION SHEET

1.2 x 2.4M x 50mm

1.2 x 2.4M x 75mm

SPECIFICATIONS.

DESCRIPTION

VOID-TEK is a collapsible void former which is used to protect concrete structures from the effects of ground heave, typically associated with clay soils. It is supplied in a thickness which is suited to accommodate the plasticity range as identified.

The product consists of folding polypropylene sections which are bonded together to produce a robust structure which can withstand a load implied by up to 900mm thickness of concrete. Its unique structure means that it arrives on site just 31mm thick and is deployed in seconds to produce the required Void former.

When the product collapses due to the upward pressure caused by ground heave, the VOID-TEK sheet will compress to a thickness of just 31mm creating the required void.

USES

VOID-TEK is used beneath suspended structural concrete slabs to create a void which allows ground heave to occur without adversely affecting the integrity of the concrete.

VOID-TEK can also be ordered and configured to specific size requirements for use beneath reinforced concrete ground beams and pile caps.

SURFACE PREPARATION

The sub-base should be well compacted and flat with no excessive surface undulations. Lean mix concrete blinding trowelled to a smooth finish provides a perfect substrate.

APPLICATION

The VOID-TEK sheets can be easily placed by one or two installers.

The void former can then be deployed by lifting the top sheet upwards and ensuring that the interlocking hinged flaps unfold to lock the void former in its deployed position.

VOID-TEK sheets can be easily cut using a Stanley knife to fit the profile of the formwork etc.

VOID-TEK sheets are butted together and taped using VOID-TEK tape to ensure no grout loss occurs during concrete pour.

VOID-TEK sheets should be cut parallel to the long edge and the minimum width should be 500mm. Where the cut of the sheet has removed the hinged interlocking flap, then a pre-taped Central Fin should be inserted at the appropriate location in conjunction with the Interlock Fin to secure the rigidity of the product.

Reinforcement spacer blocks should be laid parallel to the long edge to ensure the point loading is spread along the length of the VOID-TEK sheet.

STORAGE AND HANDLING

VOID-TEK sheets should be stored securely and suitably restrained to prevent wind-lift. VOID-TEK sheets are easily handled by one or two installers.

TABLE 1

Results of Soil Analysis Plasticity index	NHBC Category Shrinkage	Predicted Ground Movement or BRE/NHBC requirement Void dimension	Depth of Conventional Polystyrene Void Former required to achieve 'Equivalent Void'	VOID-TEK Product Code	VOID-TEK depth required to achieve 'Equivalent Void'	Reduced Dig for VOID-TEK Versus 'Conventional'
10 to 20%	Low	50mm	90mm	VT50	78 mm	12mm
20 to 40%	Medium	100 mm	160mm	VT100	140mm	20mm
40 to 60%	High	150mm	225mm	VT150	190mm	35mm

TABLE 2

VOID-TEK Grade	Safe Load (kN/ m ²)	Fail Load (kN/ m ²)	Maximum Concrete Depth	Deflection under load	Deflection under point load
7/10	7	10	220mm	< 5mm	< 5mm
9/13	9	13	300mm	< 5mm	< 5mm
14/18	14	18	500mm	< 5mm	< 5mm
18/24	18	24	660mm	< 5mm	< 5mm
24/32	24	32	900mm	< 5mm	< 5mm
32/40	32	40	1220mm	< 5mm	< 5mm
40/50	40	50	1540mm	< 5mm	< 5mm
50/65	50	65	1940mm	< 5mm	< 5mm

TRIED & TESTED

- ✓ Independently tested by UKAS accredited test house
- ✓ Patented technology - Patent Nr. GB2601425
- ✓ BDA Agrément certified

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