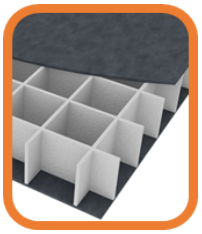
Jablite Ground Heave Protection (Vertical)

Specification Guide

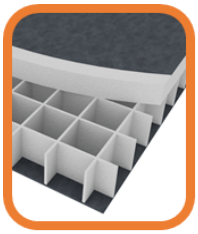
1) Choose application type

Selection of the appropriate product type is according to its intended use.



S (Slab)

B (Beam)



IS (Insulation Slab)

2) Choose the right grade for concrete thickness

The appropriate product grade is selected according to the maximum thickness of wet concrete that the product will be required to support during construction.

Concrete thickness (mm)	Product Grade
100 – 220	1
221 – 300	2
301 – 340	3
341 – 460	4
461 – 660	5
661 – 900	6
901 – 1140	7
1141 – 1540	8
1541 – 1940	9

3) Choose product depth

The appropriate product depth is selected such that its specified deformation under fail-load is equal to, or greater than, the maximum anticipated ground movement owning to clay heave as established from site investigations.

Examples of your specification or product order for Jablite Ground Heave Protection:

Design Example 1: Slab

Order/Specification: S 1 M is arrived at by the following steps:

Table 1) S = Slab
Table 2) 1 = Concrete depth between 100-220mm
Table 3) M = NHBC shrinkage category – product depth

Design Example 2: Beam

Order/Specification: B 5 H is arrived at by the following steps:

Table 1) B = Beam
Table 2) 5 = Concrete depth between 461-660mm
Table 3) H = NHBC shrinkage category – product depth

Design example 3: Insulated slab

Order/Specification: IS 2 L + 150mm HP insulation. This is arrived at by the following steps:

Table1) IS = Insulated Slab
Table2) 2 = Concrete depth between 221 - 300mm
Table3) L = NHBC shrinkage category

150mm HP insulation* = Required depth of insulation to achieve the specified U-value 0.16 on a P/a ratio of 0.7

* For guidance on thermal performance, please refer to page 2 of the Technical Data Sheet

Soil Plasticity Index PI (%)	NHBC Shrinkage Category	Predicted ground Movement (mm)	JGHP – Slab Depth (mm)	JGHP – Beam Depth (mm)	Insulated Slab thickness (mm)	Product reference
10 - 20	Low	50	90	85	82*	L
20 - 40	Medium	100	160	155	157*	M
40 - 60	High	150	225	220	217*	H

* + Insulation Thickness

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