



Pecavoid

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Detailed description

Foundations can be affected by ground movement caused by volumetric changes in the swelling expandable soils, which is generally caused by the variations and fluctuations in moisture levels of the soil. Changes in weather and the removal of vegetation also often affect ground moisture levels of the soil.

Pecavoid is a BBA approved cellular void former, designed to combat the effects of ground heave on suspended piled foundations and suspended slabs. Widely used in the construction of industrial, commercial and residential buildings, Pecavoid is independently tested, meets NHBC and other major warranty schemes for residential housing developments with their technical requirements and is certified by the British Board of Agrément.

Pecavoid significantly reduces uplift pressure caused by the expanding clay on suspended structural elements (suspended rafts, pile caps, ground beams and slabs). It is designed to compress when ground heave takes place and is manufactured from interlocking sections of light weight expanded polystyrene and is easy to install.

Benefits:

- Reduces uplift pressure, protecting buildings and foundations.
- Easy to install and achieves the required void.
- Fully compatible with Pecafil® permanent formwork.
- Does not degrade or contain CFCs or HCFCs.
- Pecavoid® materials are produced in an ISO 9001: 2008 approved factory.
- Pecavoid can also be supplied with a topping that increases the thermal performance of the building.

Product guidance - As Standard

Base:

Cellular EPS.

Length:

2400 mm.

Options

Width:

- Pecavoid CB and RDB: Available 350–1200 mm.
- Pecavoid CL, CS, RD and RDS: 1200 mm.

Depth:

MAX FRANK Ltd



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In relation to NHBC Clear Void Requirements:

- 50 mm:

- CB: 100 mm.
- CL: 105 mm.
- CS: 150 mm.
- RD+: 130 mm.
- RDB: 85 mm.
- RDS: 90 mm.

- 100 mm:

- CB: 175 mm.
- CL: 180 mm.
- CS: 225 mm.
- RD+: 200 mm.
- RDB: 155 mm.
- RDS: 160 mm.

- 150 mm:

- CB: 250 mm.
- CL: 255 mm.
- CS: 300 mm.
- RD+: 265 mm.
- RDB: 220 mm.
- RDS: 225 mm.

- 200 mm:

- CB: 300 mm.
- CL: 305 mm.
- CS: 350 mm.

Grade:

- 8/12: Safe load: 8 kN/m²; fail load: 12 kN/m².
- 9/13: Safe load: 9 kN/m²; fail load: 13 kN/m².
- 10/15: Safe load: 10 kN/m²; fail load: 15 kN/m².
- 13/29: Safe load: 13 kN/m²; fail load: 19 kN/m².
- 15/22: Safe load: 15 kN/m²; fail load: 22 kN/m².
- 18/24: Safe load: 18 kN/m²; fail load: 24 kN/m².
- 20/30: Safe load: 20 kN/m²; fail load: 30 kN/m².
- 24/32: Safe load: 24 kN/m²; fail load: 32 kN/m².

Permissible slab/ beam thicknesses (maximum):



- 8/12: 260 mm.
- 9/13: 300 mm.
- 10/15: 340 mm.
- 13/19: 460 mm.
- 15/22: 540 mm.
- 18/24: 660 mm.
- 20/30: 740 mm.
- 24/32: 900 mm.

Thermal resistance:

Consult manufacturer's literature for thermal details when using EPS insulation above Pecavoid®.

Product specification

Manufacturer

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- Product reference**
- Pecavoid CB - 4.5 mm thick twin wall polypropylene top, for use under reinforced concrete ground beams.
 - Pecavoid CL - 10 mm thick twin wall polypropylene top, for use under suspended, reinforced concrete slabs.
 - Pecavoid CS - 2 mm thick polypropylene top sheet plus 50 mm EPS panel for use under suspended, reinforced concrete slabs.
 - Pecavoid RD+ - Reduced depth range, 2 mm thick polypropylene top sheet plus 50 mm EPS panel for use under suspended, reinforced concrete slabs.
 - Pecavoid RDB - Reduced depth range, 4.5 mm thick twin wall polypropylene top, for use under reinforced concrete ground beams.
 - Pecavoid RDS - Reduced depth range, 10 mm thick twin wall polypropylene top, for use under suspended, reinforced concrete slabs.

Width []

Depth 85 mm - For RBD only.
90 mm - For RDS only.
100 mm - For CB only.



105 mm - For CL only.
130 mm - For RD+ only.
150 mm - For CS only.
155 mm - For RBD only.
160 mm - For RDS only.
175 mm - For CB only.
180 mm - For CL only.
200 mm - For RD+ only.
220 mm - For RBD only.
225 mm - For RDS and CS only.
250 mm - For CB only.
255 mm - For CL only.
265 mm - For RD+ only.
300 mm - For CB and CS only.
305 mm - For CL only.
350 mm - For CS only.

Grade

8/12 - For CB, CL and CS only.
9/13 - For RD+, RBD and RDS only.
10/15 - For CB, CL and CS only.
13/19 - For RD+, RBD and RDS only.
15/22 - For CB, CL and CS only.
18/24 - For RD+, RBD and RDS only.
20/30 - For CB, CL and CS only.
24/32 - For RD+, RBD and RDS only.