



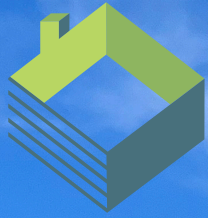
S P E E D E C K

FOUNDATIONS LIMITED

Design & Build Structural Foundation Solutions

Trusted, design and build foundation solutions for
new build residential and commercial structures

www.speedeck.uk



S P E E D E C K
FOUNDATIONS LIMITED

At SPEEDECK, we are dedicated to saving our clients time and money by delivering innovative, design-and-build structural foundation solutions. By providing a comprehensive package that includes civils, groundworks, and reinforced concrete services, we streamline the process, minimising coordination risks and ensuring efficiency.

As a leading provider of foundation solutions across southern England and the Midlands, we specialise in safe, value-engineered designs tailored to new build projects. Our advanced methods deliver faster installation times than any other suitable alternatives, ensuring projects are completed on schedule without compromising quality.



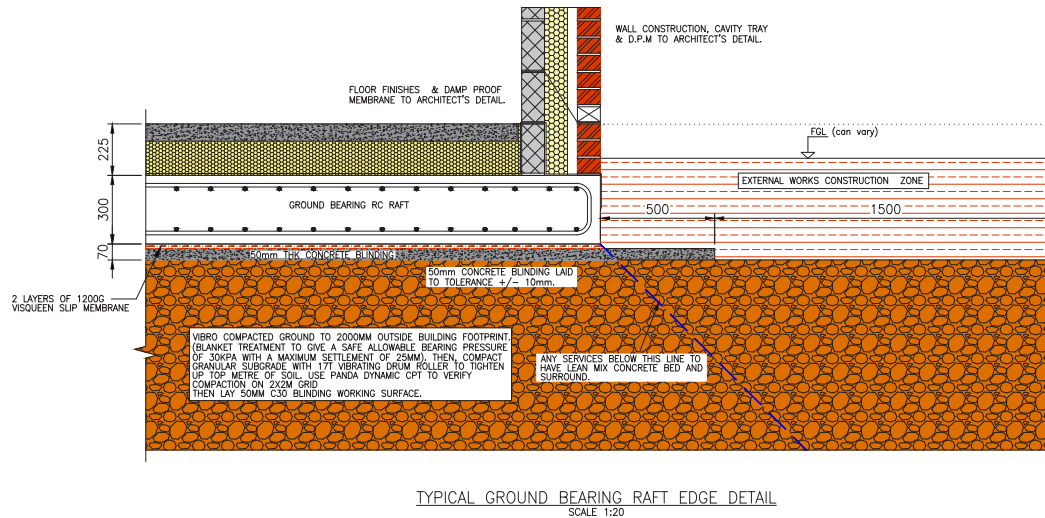


Benefits of Speedeck

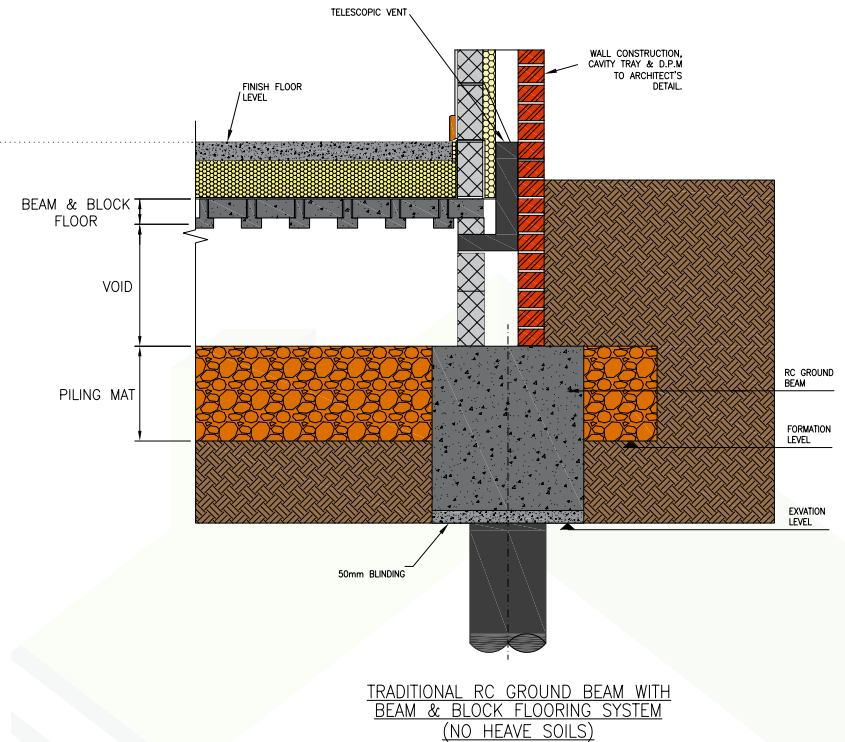
- Where an engineered solution is required for your site, our engineers work hard to produce **the most economical support system** for our rafts and do not always default to a piled solution.
- We produce economic designs to the relevant Eurocode/British Standard, with **no over engineering**.
- SPEEDECK can offer tailored Site Investigations which **limit cost** using a targeted approach to gathering data to facilitate economic foundation design and limiting the extent of costly heave precautions.
- Using points 1-3 SPEEDECK support our clients land buying team to ensure **maximum value for the site** is achieved.
- The SPEEDECK system is a simple, quick system using **traditional construction methods** which can be up to **50% quicker than comparable systems**, and is approved by ALL warranty providers.
- Reduction in reduced level dig and spoil removal from site, **saving on costs of exporting to landfill**.
- No piling mat required**, this is replaced by our concrete working surface (CWS) which remains in-situ.
- SPEEDECK system is not affected by wet weather once the Concrete Working Surface is in-situ, which ensures sites remain looking **clean and tidy**.
- Reduce following on trades by offering a one stop **Design & Build Solution**.
- The SPEEDECK system is **compatible to all means of modern construction**, including but not limited to traditional masonry, steel frame, timber frame and modular panels.
- Greater accuracy for setting out and level tolerances.
- Reduces vehicle movements, cost of landfill and CO₂ emissions.
- Extend Concrete Working Surface to 1.5m past the slab edge to eliminate blocking lift, scaffold base and patio base if required. Keeps sites looking clean and tidy.

Ground Floor System Comparison – Vibro Piles

Vibro Piled Raft



Piled Ground Beam

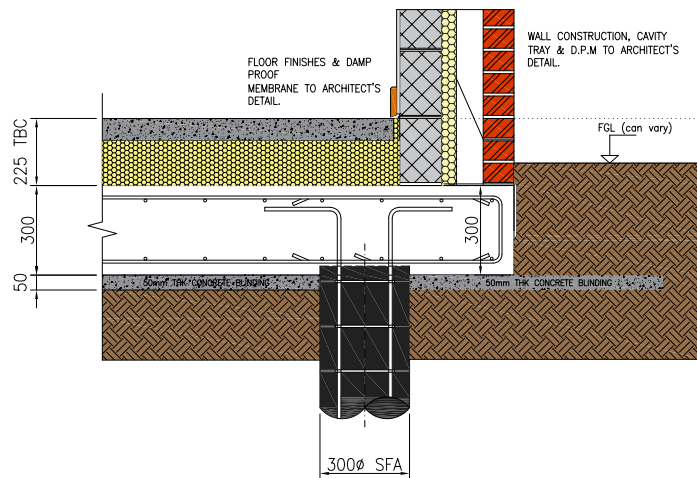


Benefits

- 💡 SPEEDECK produce economic designs to the relevant Eurocode/British Standard, with no over engineering.
- 💡 Greater accuracy for setting out and level tolerances.

Ground Floor System Comparison – CFA Piled Raft

Piled Raft

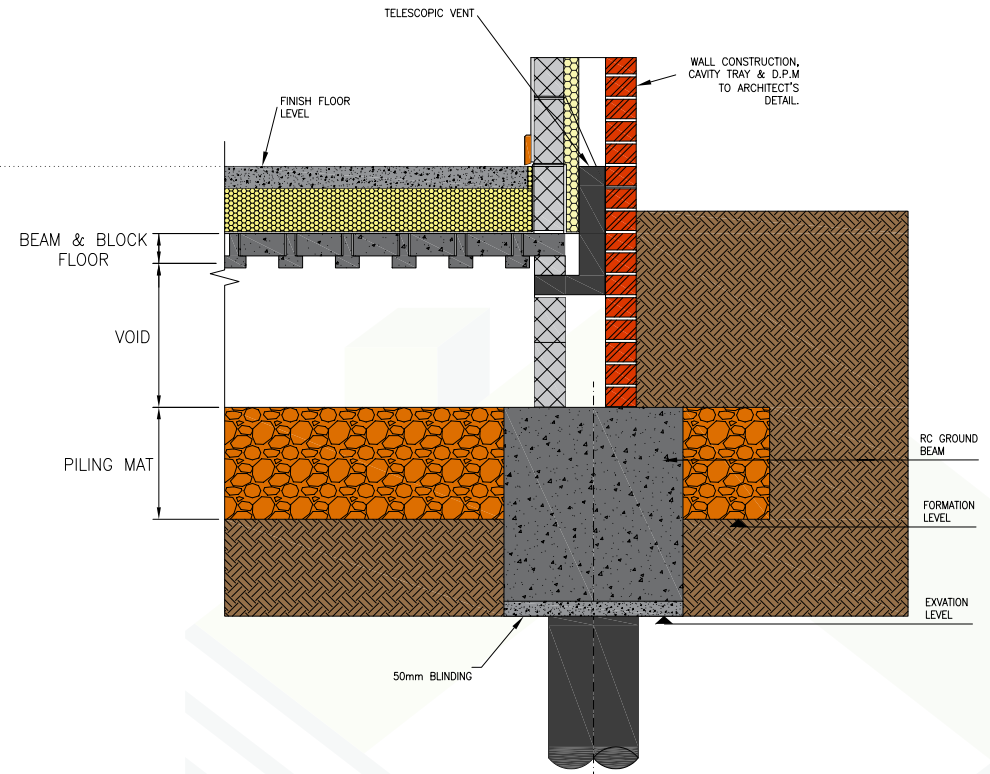


TYPICAL STRAIGHT SHUTTERED SLAB EDGE DETAIL
SCALE 1:20

Benefits

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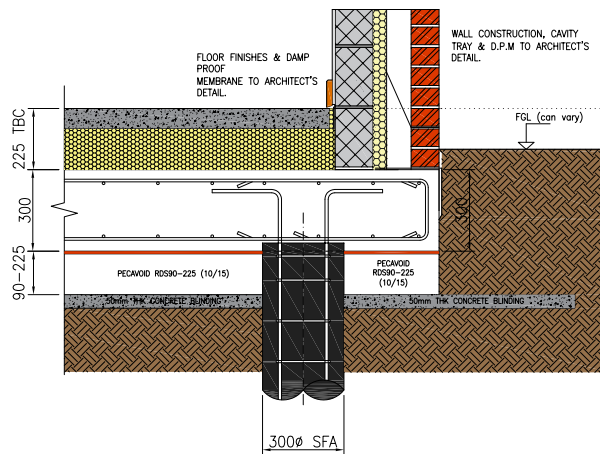
Piled Ground Beam



TRADITIONAL RC GROUND BEAM WITH
BEAM & BLOCK FLOORING SYSTEM
(NO HEAVE SOILS)

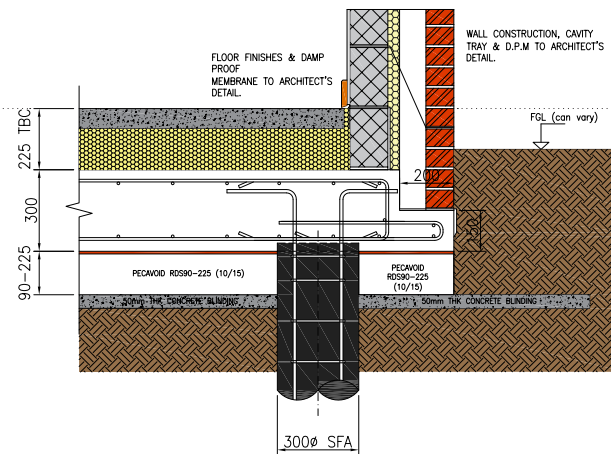
Ground Floor System Comparison – Heave Precautions

Straight Edge



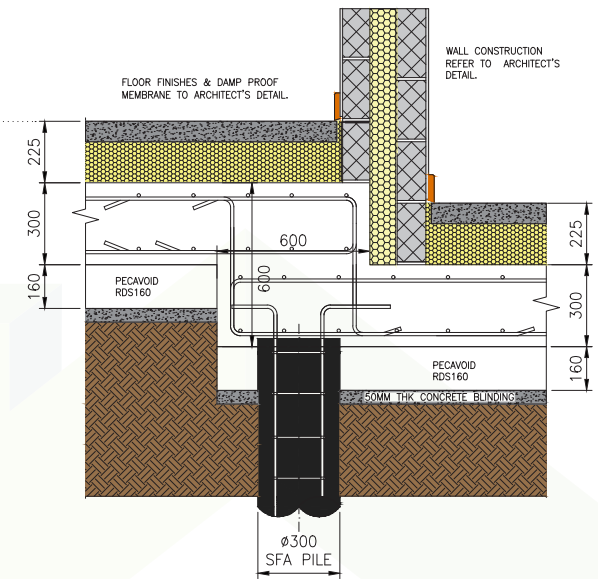
TYPICAL STRAIGHT SHUTTERED SLAB EDGE
DETAIL WITH HEAVE PRECAUTIONS
SCALE 1:20

Nib Edge



TYPICAL SLAB EDGE NIB DETAIL WITH
HEAVE PRECAUTIONS
SCALE 1:20

Step Detail



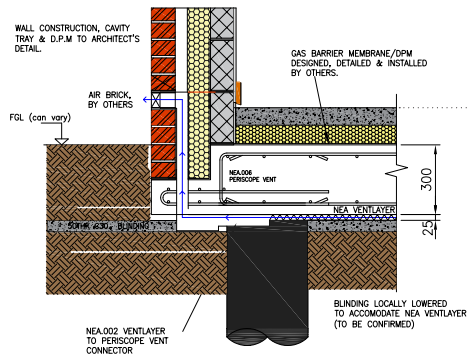
TYPICAL SECTION THROUGH SLAB STEP
SCALE 1:20

Benefits

- SPEEDECK system is not affected by wet weather once the Concrete Working Surface is in-situ, which ensures sites remain looking **clean and tidy**.
- Reduce following on trades by offering a one stop **Design & Build Solution**.
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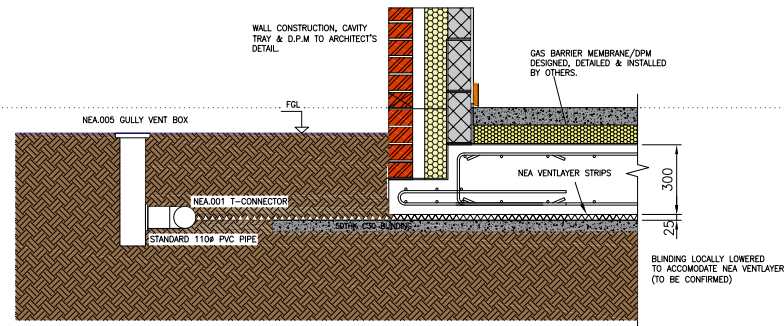
Ground Floor System Comparison – Gas/Heave Precautions

Non Heave – Vent Detail



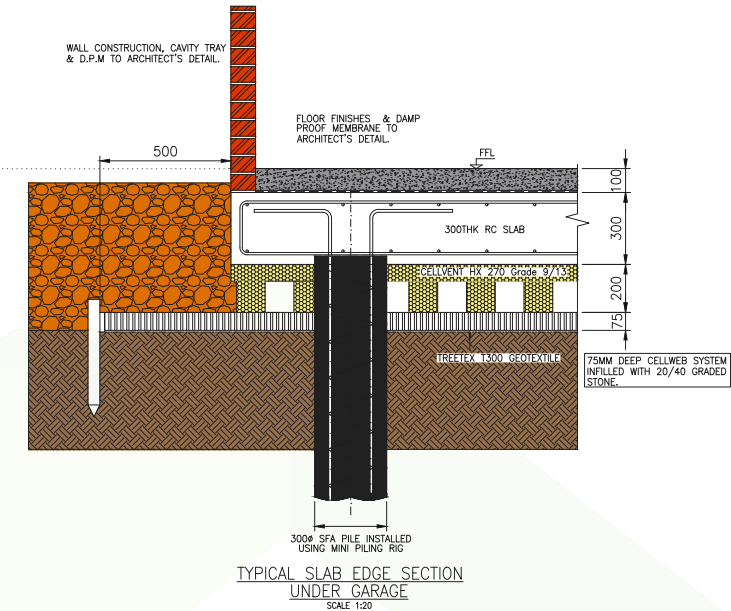
SECTION AT PERISCOPE VENT POSITIONS WHERE CLAY HEAVE PRECAUTIONS ARE NOT REQ'D
SCALE 1:20

Non Heave – Gas Vent Box




TYPICAL SLAB EDGE DETAIL FOR NO CLAY HEAVE PRECAUTION AREAS WHERE GAS VENTS TO GROUND VENT BOX
SCALE 1:20

Heave – Gas Protection

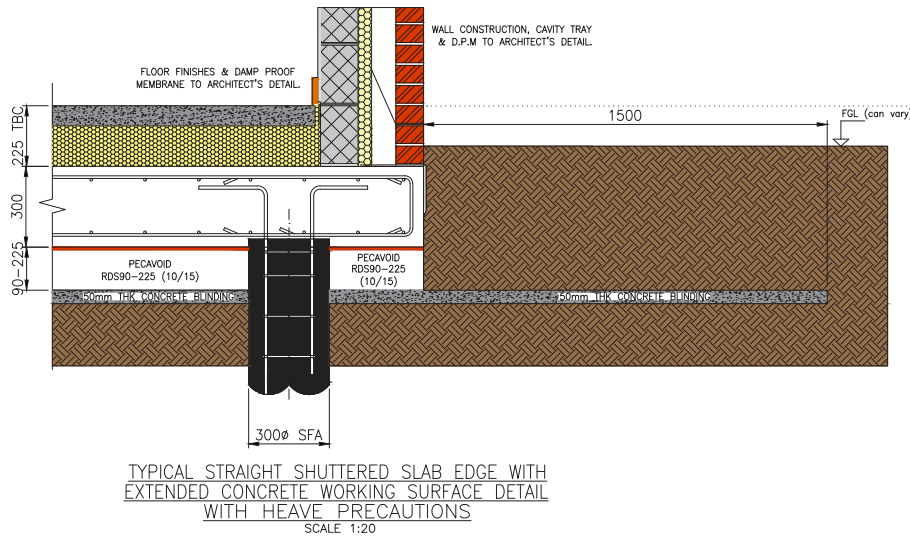


Benefits

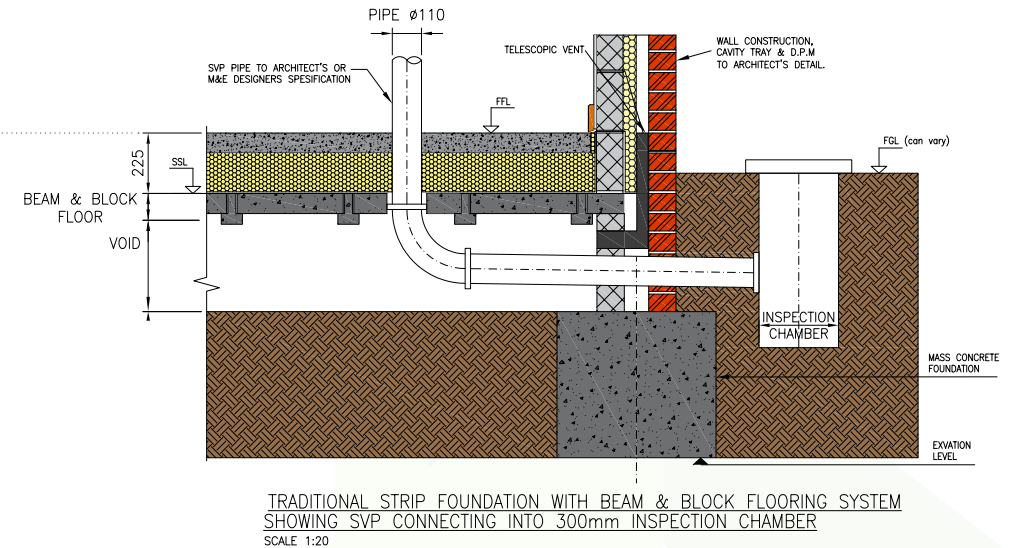
-  SPEEDECK slab acts as a gas barrier and achieves 1.5 points in accordance with BS8485. This results in a less onerous gas prevention system when compared to beam & block/precast flooring systems.

Ground Floor System Comparison – Further Benefits

Extended Concrete Working Surface



Strip Foundation



Benefits

- Extend Concrete Working Surface to 1.5m past the slab edge to eliminate blocking lift, scaffold base and patio base if required. Keeps sites looking clean and tidy.
- Eliminate Scaffold Blocking Lift, work off the CWS.
- Sound/Secure base for Scaffold and easy to keep cleaned.



S P E E D E C K

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