



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



SPEEDECK
FOUNDATIONS LIMITED

At SPEEDECK, our passion is to save our clients time and money through our design and build structural foundation solutions; whilst reducing co-ordination risks by offering a complete civils, groundworks and reinforced concrete packages.

It is our mission to become clients first choice Design and Build Foundation solution provider for projects in London, Home Counties, Midlands and the South Coast. We will do this by providing safe, innovative, value engineered solutions for new build foundations that are installed faster than any other suitable methods, on time.



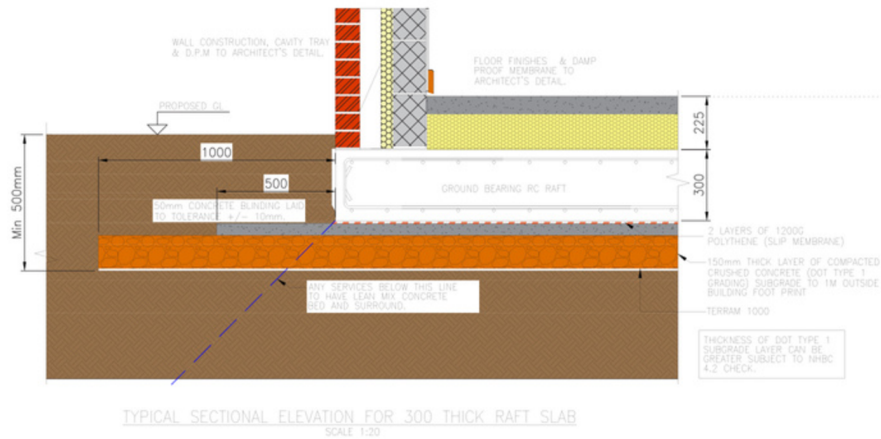


Benefits of Speedeck

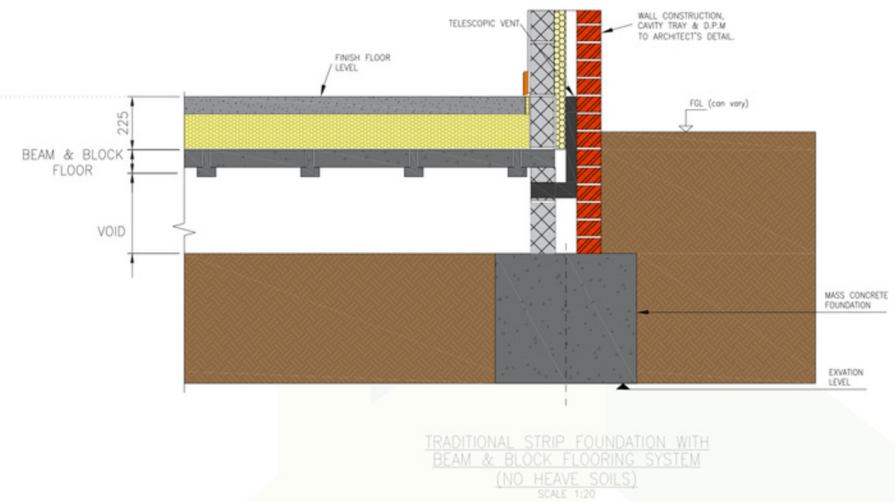
- Where an engineered solution is required for your site, our engineers work hard to produce **the most economical support system** for our rafts and do not always default to a piled solution.
- We produce economic designs to the relevant Eurocode/British Standard, with **no over engineering**.
- SPEEDECK 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 - Ground Bearing

Ground Bearing Raft Solution



Strip Foundation

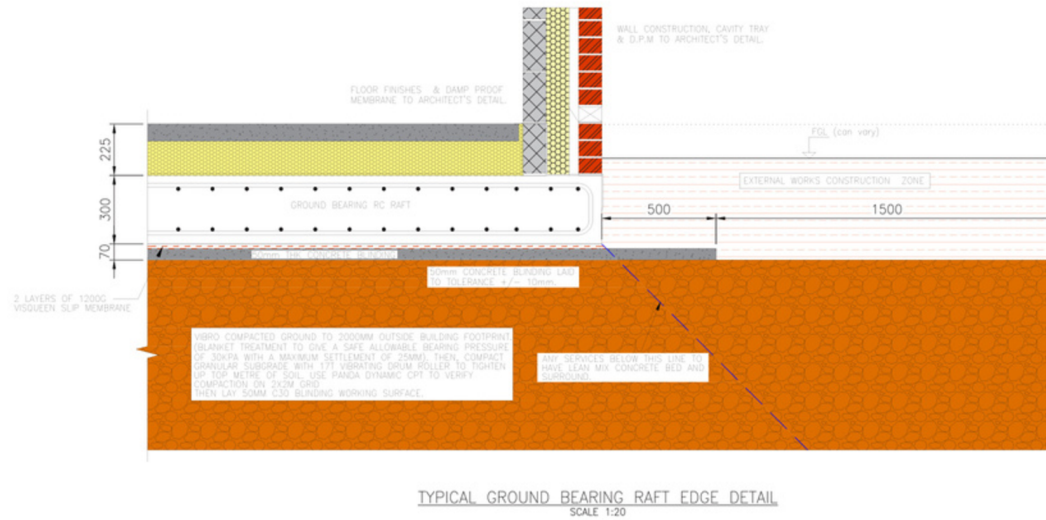


Benefits

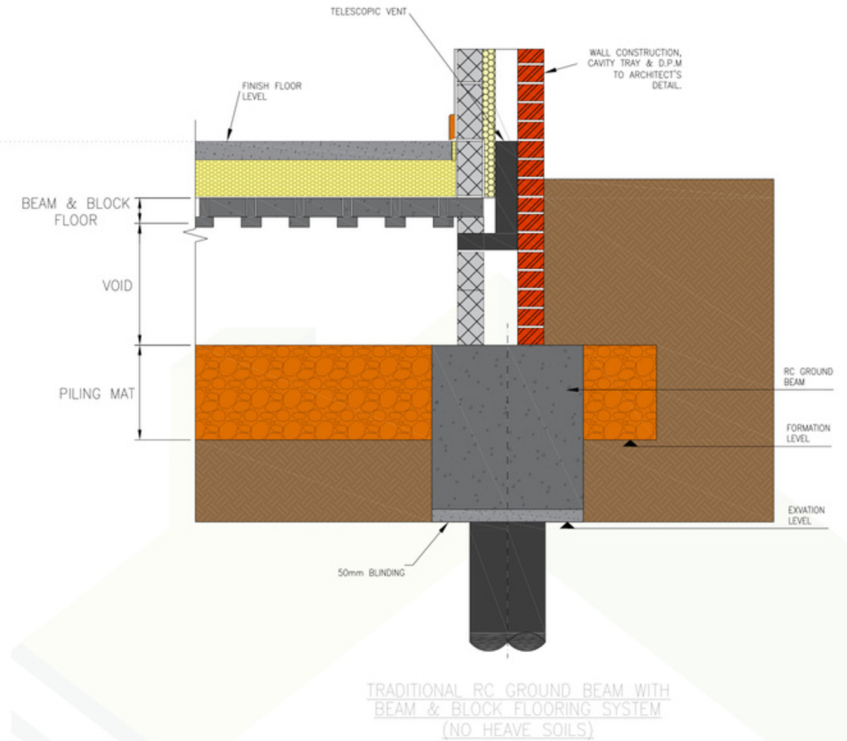
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- Reduces vehicle movements, cost of landfill and CO₂ emissions.

Ground Floor System Comparison - Vibro Piles

Vibro Piled Raft



Piled Ground Beam

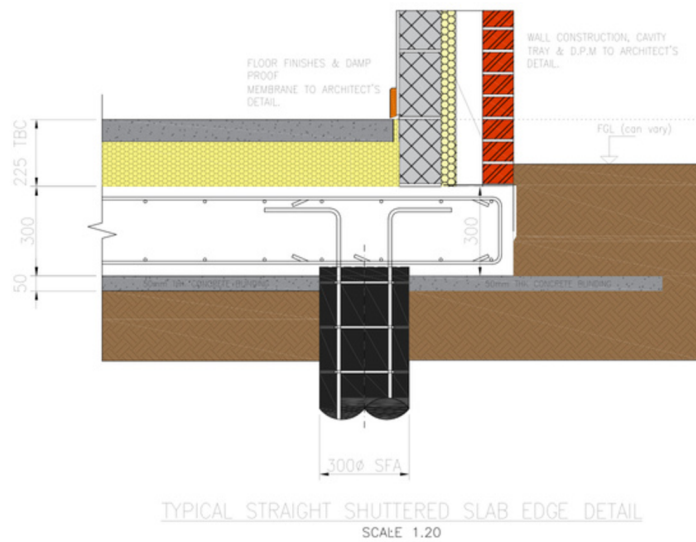


Benefits

- 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

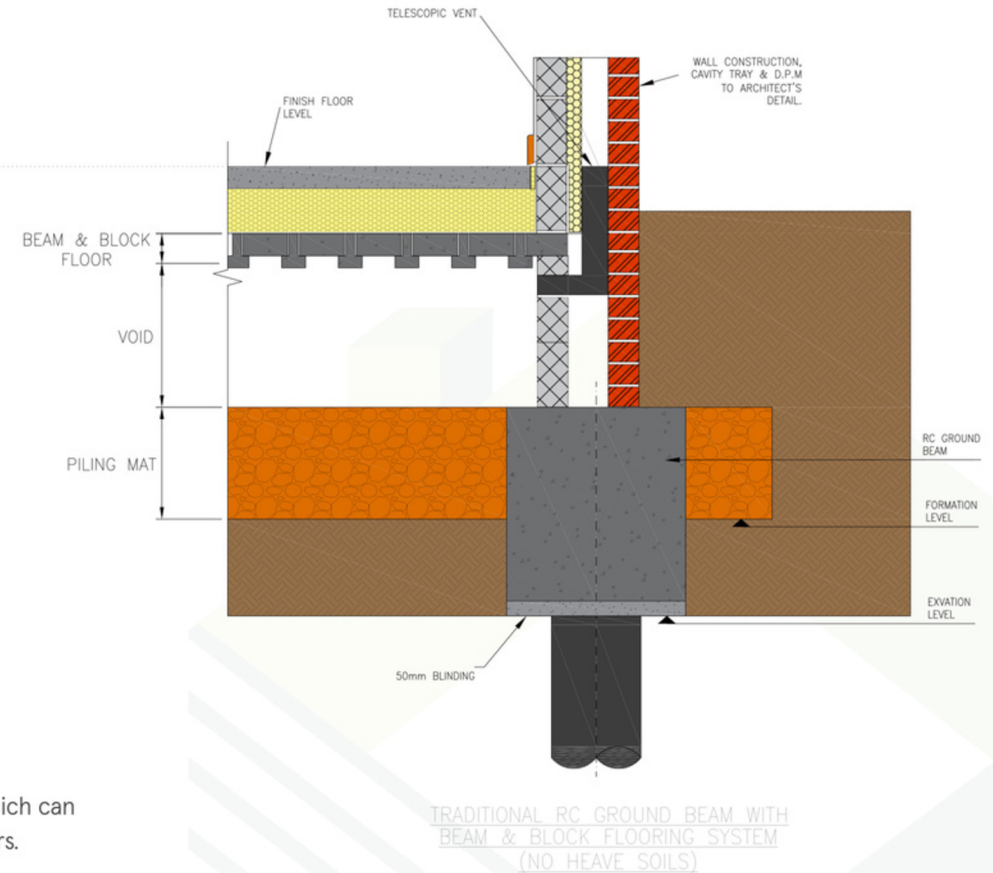
Piled Raft



Benefits

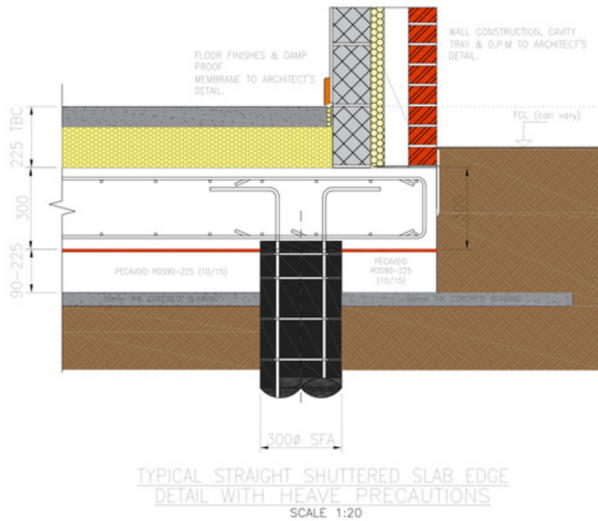
- ◆ The SPEEDECK system is a simple, quick system using **traditional construction methods** which can be up to **50% quicker than comparable systems**, and is approved by ALL warranty providers.
- ◆ Reduction in reduced level dig and spoil removal from site, saving on costs of exporting to landfill.
- ◆ **No piling mat required**, this is replaced by our concrete working surface (CWS) which remains in-situ.

Piled Ground Beam

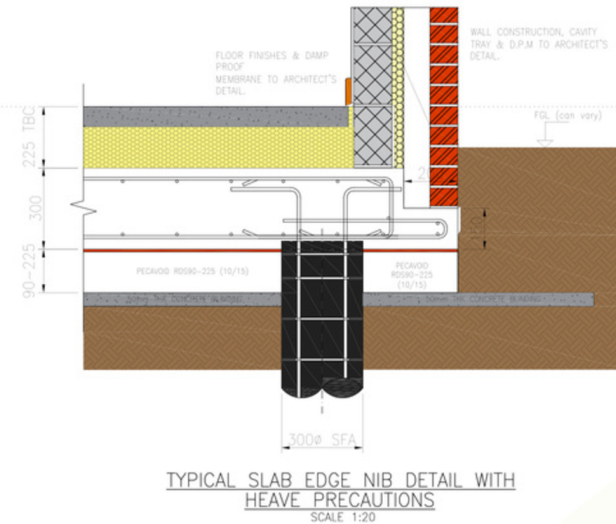


Ground Floor System Comparison - Heave Precautions

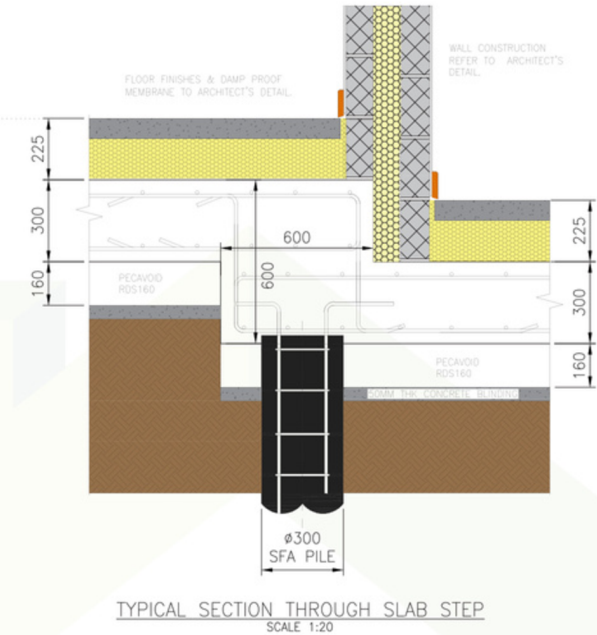
Straight Edge



Nib Edge



Step Detail

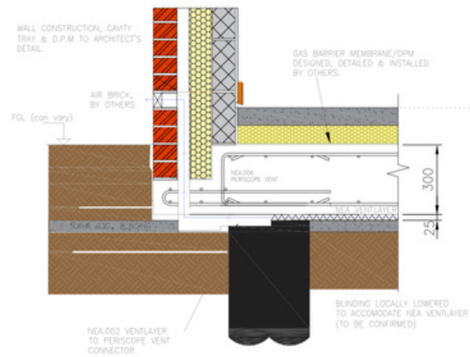


Benefits

- 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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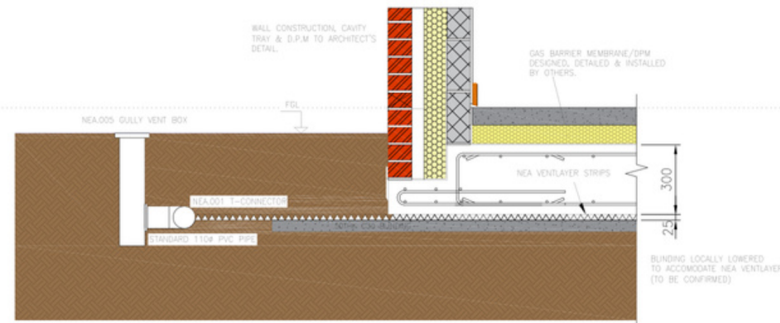
Ground Floor System Comparison - Gas/Heave Precautions

Non Heave - Vent Detail



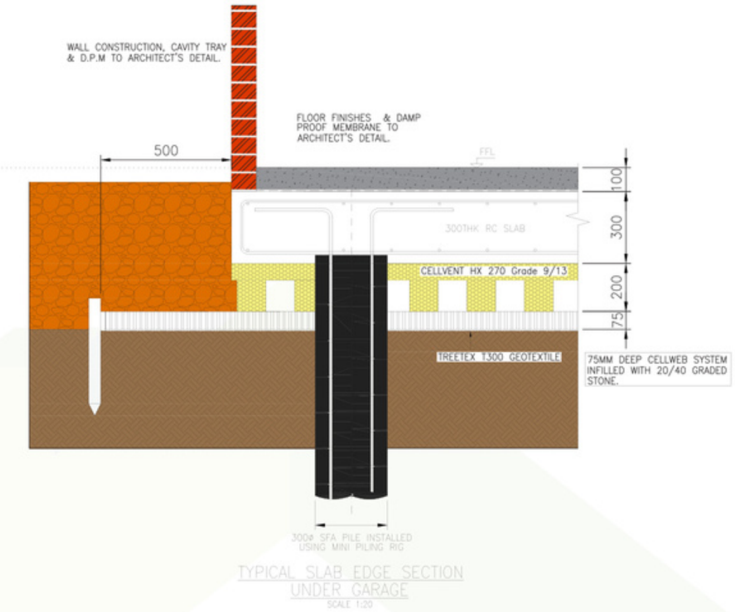
SECTION AT PERISCOPE VENT POSITIONS WHERE CLAY HEAVE PRECAUTIONS ARE NOT REQ'D
SCALE 1:20

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



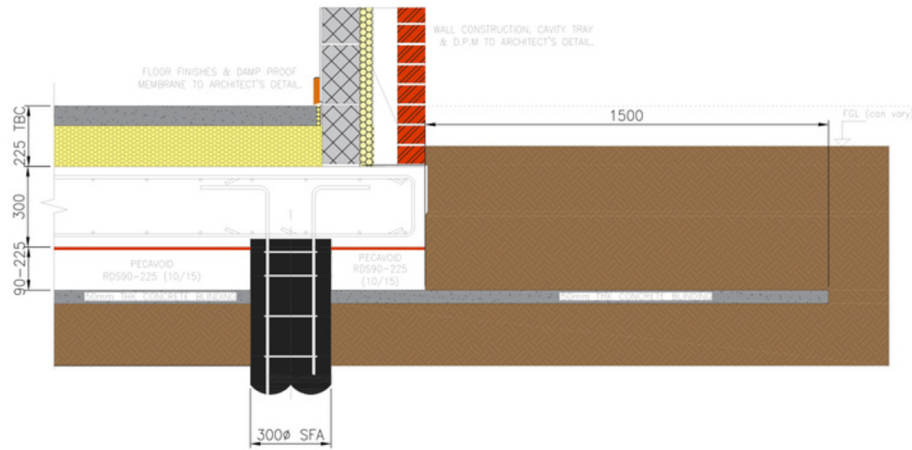
TYPICAL SLAB EDGE SECTION UNDER GARAGE
SCALE 1:30

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.

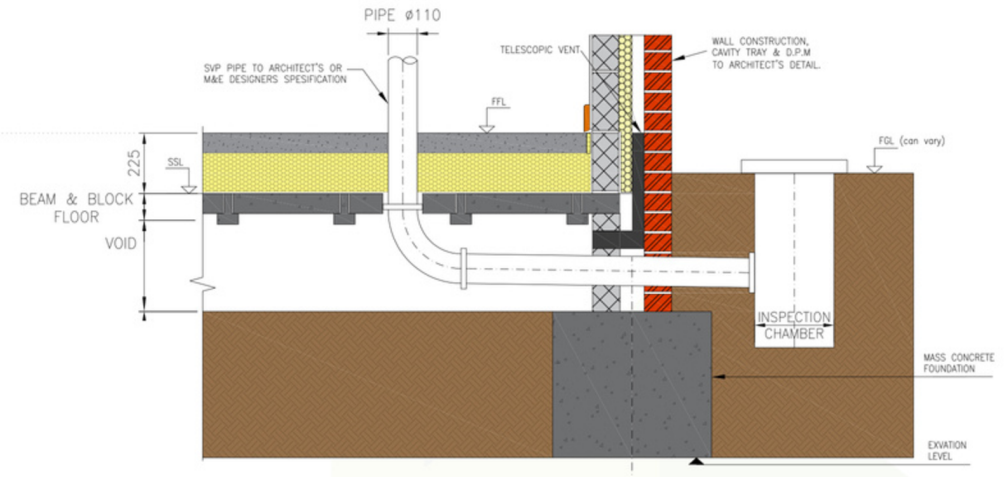
Ground Floor System Comparison - Further Benefits

Extended Concrete Working Surface



TYPICAL STRAIGHT SHUTTERED SLAB EDGE WITH EXTENDED CONCRETE WORKING SURFACE DETAIL WITH HEAVE PRECAUTIONS
SCALE 1:20

Strip Foundation



TRADITIONAL STRIP FOUNDATION WITH BEAM & BLOCK FLOORING SYSTEM SHOWING SVP CONNECTING INTO 300mm INSPECTION CHAMBER
SCALE 1:20

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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