



Technical Guidance

Raft foundations - edge detail

Question

Does a raft foundation slab require a 'toe' for support of the outer leaf of a cavity wall and to provide weather-proofing at the floor/wall junction (as shown in NHBC Standards clause 4.5 – D12)?

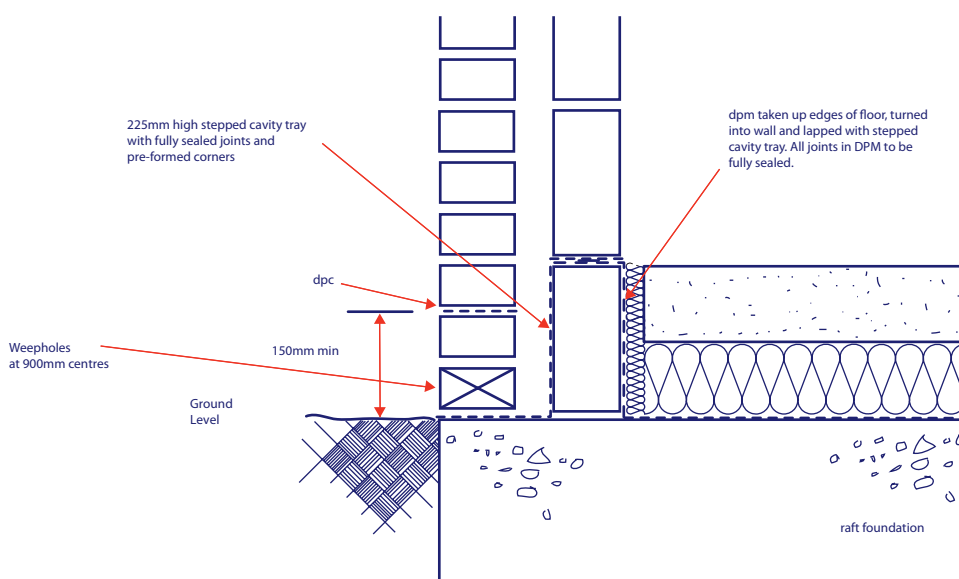
Considerations

- NHBC Standards clause 4.5 – D12 states 'the foundation design shall prevent the passage of moisture to the inside of the dwelling' and shows how this can be achieved with a stepped edge on a raft foundation.
- NHBC Standards clause 4.5 – D12(a) refers to dpc cavity trays not being an acceptable method of weather-proofing the edges of specialist foundations such as rafts and ground beams. This is to avoid details where a failure of the stepped tray would lead to a direct leakage of water into the building.

Answer

Raft foundations can be accepted without a toe provided it can be shown that there is adequate weather-proofing at the junction of the wall and the raft.

The detail shown below is one acceptable method of achieving this. It uses a combination of a stepped cavity tray and dpm together with pre-formed corner trays and sealed lap joints.



SECTION THROUGH EDGE OF FLOOR SLAB AND EXTERNAL WALL