

**Flood Risk Mitigation – Flood Proofing/ Resilience.**

**Two storey rear extension and conversion of integral garage at;  
10 Barton Grove, Portsmouth PO3 5TY**

Where appropriate and practical to do so, the measures below are to be incorporated in to the design of the proposed works at the above address. These measures have been proposed in accordance with advice contained in the CLG guidance document – improving the flood performance of new buildings. There is to be no increase in occupation as a result of the proposed works.

The finished floor level of the proposed extension will be constructed to match the existing dwelling. The proposed ground floor construction will consist of a minimum 100mm thick concrete ground bearing slab over 1200 gauge DPM.

Existing finished floor level of garage to be raised to the level of the main house as part of the proposed conversion works, the existing garage slab will be overlaid with 1200 gauge DPM with PIR insulation over and 18mm ply over to act as a floating floor construction with no perforations to the DPM. New DPM will be dressed up the existing internal wall min 300mm above DPC level. The existing external walls to the existing garage are assumed to be cavity construction.

Proposed external walls are to be built as masonry cavity construction with dense concrete block up to one brick course below ground level with facing brick above. 100mm cavity below dpc filled with concrete to min 150mm below DPC level. 100mm thermalite block (or equivalent) to internal skin, no air bricks are required. DPM of floor construction to be dressed up the inside of the cavity min 300mm above DPC level with DPM cavity tray installed over discharging via weepholes above DPC.

The existing door thresholds are min 150mm above ground level, this is to be maintained with the proposed external doors. The doors are to be designed and installed to ensure there are no weak points below 300mm for water entry to the proposed extension.

Electrical circuitry is to be installed at a higher level (above 600mm from GL) with power cables being carried down from the ceiling rather than up from the floor level. All waste pipes to be fitted with non-return valves to prevent waste-water being forced up waste connections.

All surface water discharged from proposed extension roof to be routed via existing drains to mains sewer, no soakaway to be installed.