



Ground bearing solid concrete floors:

Topsoil and vegetable matter to be cleared from site and floor to be in filled with minimum 150mm/maximum 600mm clean sand blinded compacted hardcore. A 300um (1200g) continuous polythene DPM/radon barrier is to be lapped & sealed at all joints, laid over sand blinded hardcore & linked to DPC's in walls.

Floor & external perimeter edges of floor slab to be insulated with 140mm Kingspan Kooltherm K103 insulation, under a minimum 100mm thick ST2, or Gen1 concrete floor slab with a trowel smooth surface with 25mm up stands to the external walls.

A 125um polythene separating layer is to be installed between the concrete slab and insulation.

Construction to achieve a 'U' value of 0.11 W/m²k

Insulation to be omitted and concrete thickness increased in areas where non-load bearing partitions are built off the floor slab.

Where area of fill exceeds 600mm the floor is to be suspended as detailed in this guidance.

Where necessary, proprietary plastic radon sumps to be installed in subfloor of ground bearing slab as manufacturer's details, www.visqueenbuilding.co.uk Sumps to be connected to 110mm diameter proprietary air sealed upvc pipes, and fitted with an access plug cap above ground level to allow connection to a radon fan and duct system- up to eaves level of the building.

A sign identifying radon pipe work is to be fixed to the wall above the capping. 1200g DPM radon barrier is to be taped and sealed at all joints, junctions, service entry points and sealed to a continuous cavity tray (using a proprietary tape) which is supported by the cavity infill at ground level and brought through the external wall leaf with weep-holes to the external skin.

Trench foundations

750mm x 600mm trench fill foundations, concrete mix to conform to BS EN 206-2013 and BS 8500-2:2015+A1:2016. All foundations to be a minimum of 1000mm below ground level, exact depth to agreed on site with Building Control Officer to suit site conditions. Stepped foundations should overlap by twice the height of the step, or 1m whichever is the greater. The height of the step should not be greater than the thickness of the foundation, all constructed in accordance with 2004 Building Regulations A1/2 and BS 8004:2015 Code of Practice for Foundations. Ensure foundations are constructed below invert level of any adjacent drains. Base of foundations supporting internal walls to be min 600mm below ground level. Sulphate resistant cement to be used if required. Should any adverse soil conditions or difference in soil type be found or any major tree roots in excavations, the Building Control Officer is to be contacted and the advice of a structural engineer should be sought.



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PROJECT: Proposed Extension
CLIENT: Eardisland Parish Council

SITE: Village Hall, Church Road, Eardisland
TITLE: Concrete Ground Bearing Floor Slab

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