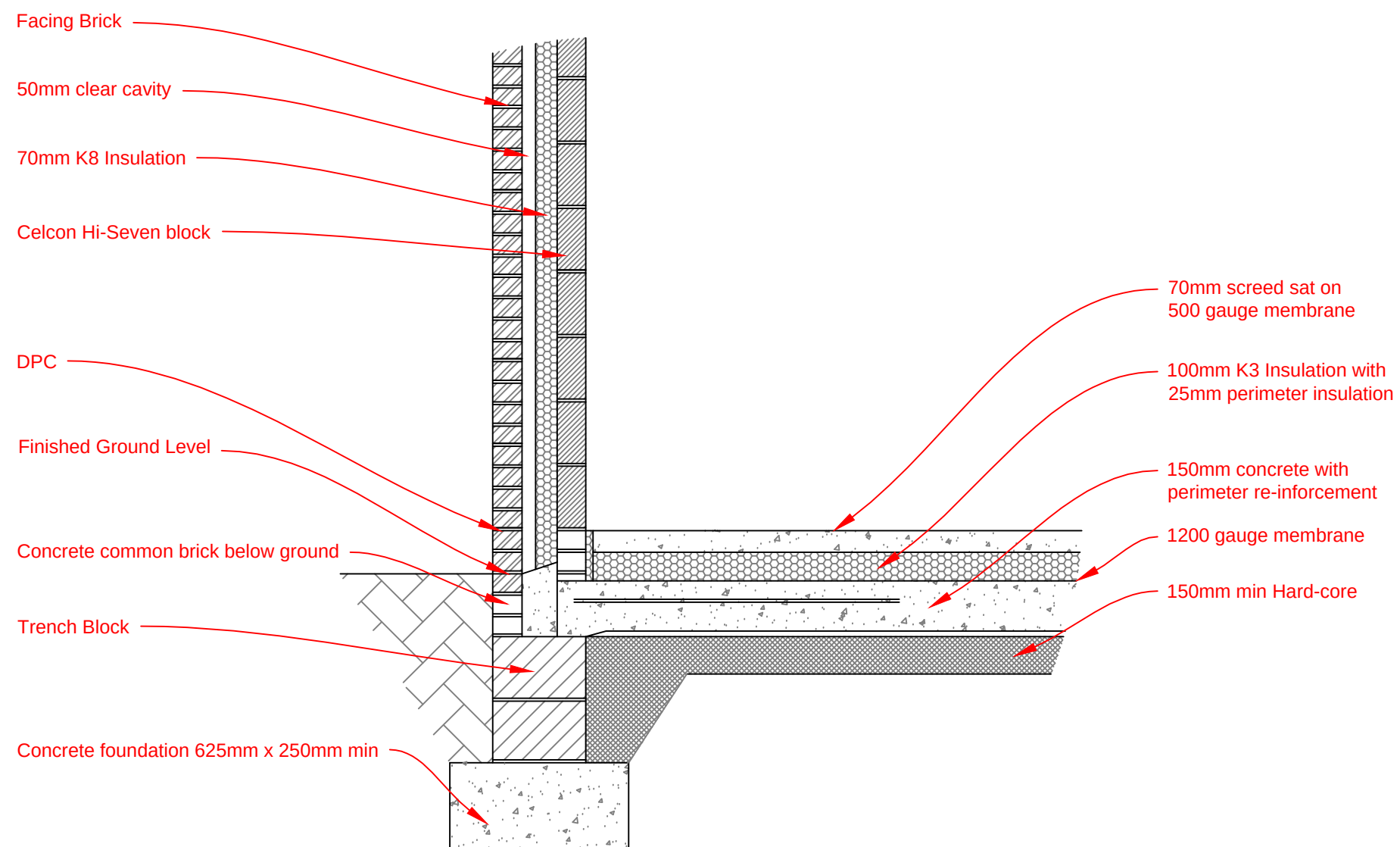




Insulation levels

Ground Floor: Insulation to be 100mm Kingspan K3 Floorboard rigid urethane insulation or equivalent giving U-value of approx. 0.14 W/m.K based on a P/A ratio of 0.4. or as superseded by SAP calcs.

Walls: Insulation to be 70mm Kingspan K8. to 120mm cavity giving U-value of approx. 0.27 W/m.K. Which will maintain a clear 50mm cavity .Alternatively, and where required by SAP calcs, use Springvale Ecobead blown cavity bead insulation , or similar, which will give lower U-values.

Roof: Two layers of glass mineral wool (Crown wool or similar). The first 100 mm deep laid between ceiling joists/roof truss spars. The second 200 mm thick laid across the joists/spars. This will give a U value of 0.16 W/m²K. This insulation is to connect with the cavity wall insulation to avoid thermal bridging at eaves level. Any pipes in roof space to be lagged Sloping ceiling areas to receive pitched roof board. Kingspan Thermapitch TP 10 zero ODP rigid urethane insulation or equivalent, min. 150mm to give U-value of min. 0.19 W/m.K or up to 200mm thickness if practicable and required by SAP calculations. Smaller joist depths less than 150mm i.e. over dormers or small roofs to be fully filled. Insulation to be full filled where practicable and to be used in conjunction with breathable felt, i.e. Kingspan nilvent or similar. The above design may be superseded by design SAP calculations.

Drawing:	Detail Section
Works:	New Dwelling
Client:	Mr A Price
Address:	Land adjacent to 5 Chapel Street Pen-y-cae Wrexham
Scale: 1:20	Drawing No: 15-03-13A