

All windows & doors to be double glazed sealed units with a 16mm air gap & K glass by Pilkington or similar approved, with 'Soft' low E coating to the inner pane & to give a U value of $1.4 \text{ W/m}^2\text{°C}$ & to have opening lights equal to $1/20$ th floor area & to incorporate trickle vents with min area of $84,000 \text{ mm}^2$. All glazing to be in accordance with Part K. Bldg. Regs i.e. to be toughened to all glass below 800mm from floor level.

Lintols :-

Castric lintols to all ext. openings with min 150mm end bearing & to have proprietary weep holes @ 450mm centres.

Electrical Work :-

All electrical work to meet requirements of Part P. (Electrical Safety) 2005 edition Bldg. Regs. Must be designed, installed, inspected & tested by a person who is registered on a recognised competent person scheme. Prior to completion to L.A. must be fully satisfied that Part P has been complied with. This will normally require that an appropriate BS 7671 Electrical Installation Certificate be issued on completion. Lighting system is to comply fully with approved document L1B, and is to have 1. Fixed energy efficient light fittings to be a min 75% total. 2. Energy efficient fittings to accept lamps with a luminous rating greater than 40 lumens per circuit/watt. Switches & sockets outlets for lighting & other equipment to be positioned between 450 & 1200mm from finished floor level. All in accordance with Section 8 Part M. Bldg. Regs.

Drainage :-

All new drains to be Hexteve 100mm dia flexible jointed pipes bedded & surrounded in pea gravel & laid to a min fall of 1:40. Any drains passing under new work to be encased in 150mm concrete & bridged over where passing through walling. Any soakaways for top water to be min 5.0 metres from dwelling approx 1m x 1m x 1m deep filled with clean rubble. All drainage to be to the total satisfaction of the district building Inspector.

Steelwork :-

All steelwork / beams & padstones sizes to be in accordance with Engineers Details. Calculations to be submitted & approved prior to commencement of work. Beams to be encased in 15mm 'firecase' boards screwed together to British Gypsum recommendations to give min 1hr fire resistance. Provide 20mm min vertical headroom.

Are to have max U value of $0.18 \text{ W/m}^2\text{°C}$ achieved by 100mm fac brickwork to match existing, 100mm cavity filled with 100mm Drytherm 32 cavity batts & 100mm Thermolite H. Strength 7 blockwork & 12mm plasterboard with 40mm insulation board on dabs. (Note 150mm cavity can be used if preferred). Walls to have min 5 N° wall ties / m^2 & at 225mm vertical centres to all reveals & d.p.c. at min 150mm above proposed ground level. All external reveals to be open & insulation to be continuous with U value same as walling. Concrete cavity fill to walls to be stopped 150mm below d.p.c. level or at ground level whichever is greater. U value to achieve 0.18. No work to encroach over boundaries. Castric lintols to all ext. openings with min 150mm end bearing & to have proprietary weep holes @ 450 ctrs. 150 x 100 Naylor's precast concrete lintols to internal block walls.

Proposed Two Storey Side Extension & Porch at
43, Bentham Way, Mapplewell, Bamsley for
Mr. D. Whittingham

Scales 1:100 & 1:50

Date July 2024

Drawing N^o DW/TM/2024/A1.