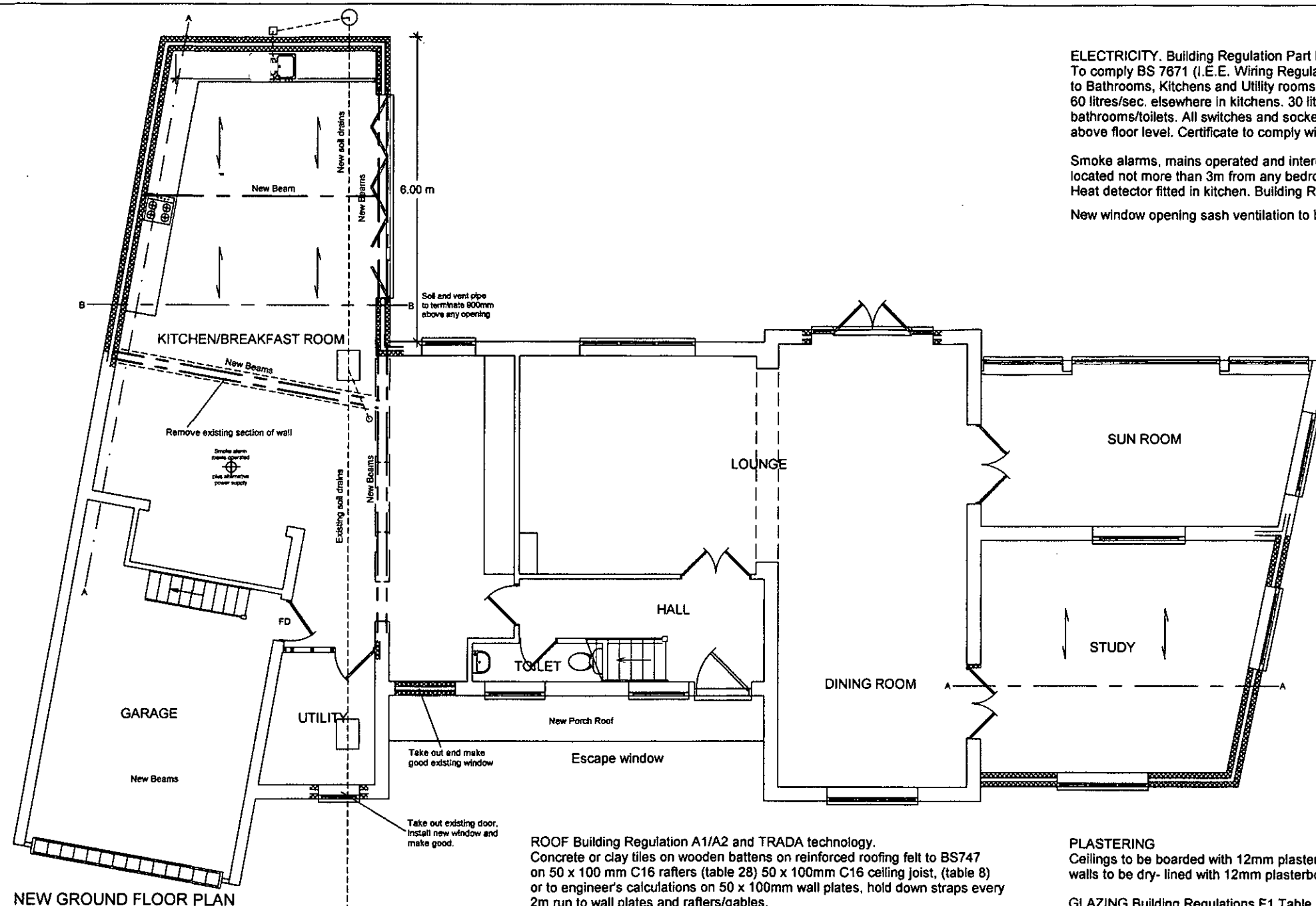




NEW GROUND FLOOR PLAN

FOUNDATIONS Building Regulation A1/A2.

295 mm Walls, 2 x 7N solid concrete blocks minimum cover to foundations 1 m or to local authority requirements. Cavities to be filled with lean mix concrete to a minimum level of 225mm from DPC. Foundations concrete 1 : 3 : 6 20 mm Premix 600mm wide x 225mm deep. DPC to be 150mm above ground level. If any trees are within 30m of the foundation the foundation depth will need to be increased as this may affect the design.

SOLID GROUND FLOORS Building Regulation C4.

75mm sand and cement screed on 100mm concrete 1 : 4 : 2 Pre-mix on 1200 polythene DPM on 55 mm GA4055 Celotex floor insulation minimum U - Value of 0.22 W/m2k With T-Break TB4000 between screed and walls on 1200 polythene DPM on 25 mm sand blinding on 100 mm hard core, all voids and excavation to walls filled with hardcore. Provide A142 mesh within the bottom of concrete slab over drainage runs.

EXTERNAL WALLS Building Regulation A1/A2.

Outer skin to be 100mm concrete blocks and plastered and painted to first floor level. Elm boarding removed and replaced with Vertical tiling. Inner skin to be 100mm Toplite GTI blocks with 45mm CW4045 Celotex cavity insulation, minimum U - Value of 0.28 W/m2k in a minimum 50mm from insulation wide cavity and a maximum of 95mm wide cavity including insulation. Wall ties to be stainless steel type 750 x 450mm c/c 225mm vertical spacing at reveals, insulated to prevent cold bridging. Fire stop to head of cavities.

LINTELS.

Reinforced concrete or steel to manufacturer's specification, 150 mm bearings either side. All installed to manufacturer's detail.

FIRST FLOOR JOIST Building Regulation A1 A2.

Joist to be 47 x 200mm @ 400mm c/c C16 Table 6 Double joist under partition walls 1 No. 75 x 200mm to support stairs. Provide 30 x 5mm steel restraint straps at 2m intervals at right angles to the joist, to extend over 3 No. joist with noggings.

ROOF Building Regulation A1/A2 and TRADA technology.

Concrete or clay tiles on wooden battens on reinforced roofing felt to BS747 on 50 x 100 mm C16 rafters (table 28) 50 x 100mm C16 ceiling joist, (table 8) or to engineer's calculations on 50 x 100mm wall plates, hold down straps every 2m run to wall plates and rafters/gables.

FLASHING Building Regulation C4.

To be code 4 lead. Cavity tray to be provided between extension roof and joining wall, including chimney flashings. Chimney trays to be Code 6 lead.

STUD WALLS

External and internal stud walls to be in 50 x 100mm C16 timber

FLAT ROOF A1/A2/B4 and TRADA technology.

Flat roof covering 3 layers of mineral felt with 12.5 depth bitumen bedded stone chippings Building Regulation Part B Table 5 Part iii: or fibreglass by specialist supplier (fibreglass specialist to provide fire rating specification) on 19mm marine ply on 125mm TD4125 Celotex Minimum U - Value 0.19 W/m2k, on sloped firings not less than 1 in 80 on 200 x 50mm joist C16 table 36 @ 400 c/c on 50 x 100mm wall plates, hold down straps every 2m run. Steel joist/wall connectors to support joist to existing house wall.

PLUMBER Hot water and central heating Building Regulations G3/J and L. Including Parts L1A and L1B April 2006.

The hot water and central heating system will be extended to include the new extension to comply with approved documents J & L, by a competent plumbing and heating engineer. All gas installations will be installed by a qualified Gas Safe engineer. Central Heating and Hot and Cold water in copper to BS864. Boiler replacement is to be Condensing type sufficient to provide heating and hot water to the whole of the property. Provide boiler commissioning Certificate on completion. RAIN WATER Building Regulation H3 Table 2 100mm Gutter, 75mm down pipes discharging into 100mm Osma drains into soakaways 5m from buildings, large area of roof must be proportional to the size of soakaway. All underground drains to be Osma below ground type surrounded with pea shingle.

All traps from sinks, baths and basins are to be deep seal 76 mm, showers 50 mm seal shower traps. Bath, shower and sink waste pipe to be 40 mm dia. basin waste to be 32 mm dia. access plugs where necessary, 110 mm pipe soil and vent pipe. Building Regulation H1

ELECTRICITY Building Regulation Part P (Electrical Safety)

To comply BS 7671 (I.E.E. Wiring Regulations 17th Edition). Fit mechanical extractor to Bathrooms, Kitchens and Utility rooms to vent: 30 litre /sec. adjacent to hob and 60 litres/sec. elsewhere in kitchens. 30 litres/sec. utility rooms, 15 litres/sec. for bathrooms/toilets. All switches and sockets to be positioned between 450mm and 1200mm above floor level. Certificate to comply with BS7671 to be issued after completion of the work.

Smoke alarms, mains operated and interconnected, to be fitted to ground and first floor, located not more than 3m from any bedroom and not more than 7.5m from any other room. Heat detector fitted in kitchen. Building Regulation B1.

New window opening sash ventilation to be not less than 1/20th of room floor area.

INSULATION SCHEDULE

Ground floors Concrete slab P/A = .3 = 55mm GA40 Celotex = 0.22 W/m2K, Celotex Tbreak TB4000 between screed/concrete and outside walls.

Cavity walls 90mm brick outside skin 100mm Toplite GTI inside skin 45mm CW4045 Celotex = 0.28 W/m2K.

Single brick external walls
3 coats Synthaproof to inside face plus 60mm GA4060 Celotex finished with one Layer plasterboard

Windows to achieve 'U' value of 1.6 W/m2K.
Doors to achieve 'U' value of 1.8 W/m2K.

Pitched roof ceilings 100mm GA4100 Celotex between rafters with 50mm gap between breather Membrane and insulation plus 35mm GA4035 Celotex underside of rafter = .18 W/m2K.

Roof space insulation 150mm fibreglass laid between joist and 100mm over joist.
25mm continuous ventilation or equivalent to all soffits continued into roof space.

Flat roof insulation 125mm TD4125 Celotex on top of joist = 0.19 W/m2K.

Ceiling level to achieve 'U' value of 0.16 W/m2K.

Do not scale from drawings
(excepting Local Authorities)
All dimensions to be checked on site

All work to comply with Building Regulations, British Standards, manufacturer's instructions /specifications and engineer's calculations at all times. Construction must also comply with all safety at work regulations. Additional work may be requested by the building inspector as work proceeds to ensure the new building complies with all building regulations.

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