PART L1B. CONSERVATION OF FUEL AND POWER.

1). WALLS TO ACHIEVE: 0.28W/m2K
2). FLOORS TO ACHIEVE: 0.22W/m2K
3). PITCHED ROOF INSULATION @ CEILING LEVEL TO ACHIEVE: 0.16W/m2K
4). PITCHED ROOF INSULATION @ RAFTER LEVEL TO ACHIEVE: 0.18W/m2K
5). FLAT ROOFS TO ACHIEVE: 0.18W/m2K
6). DOORS TO ACHIEVE: 1.8W/m2K
7). WINDOWS & ROOF LIGHTS: 1.6W/m2k.

SAP OR SBEM ASSESSMENTS IF REQUIRED TO BE COMPLETED MINIMUM 1 DAY BEFORE COMMENCEMENT OF WORK ON SITE.

(S) MAINS OPERATED SMOKE DETECTOR

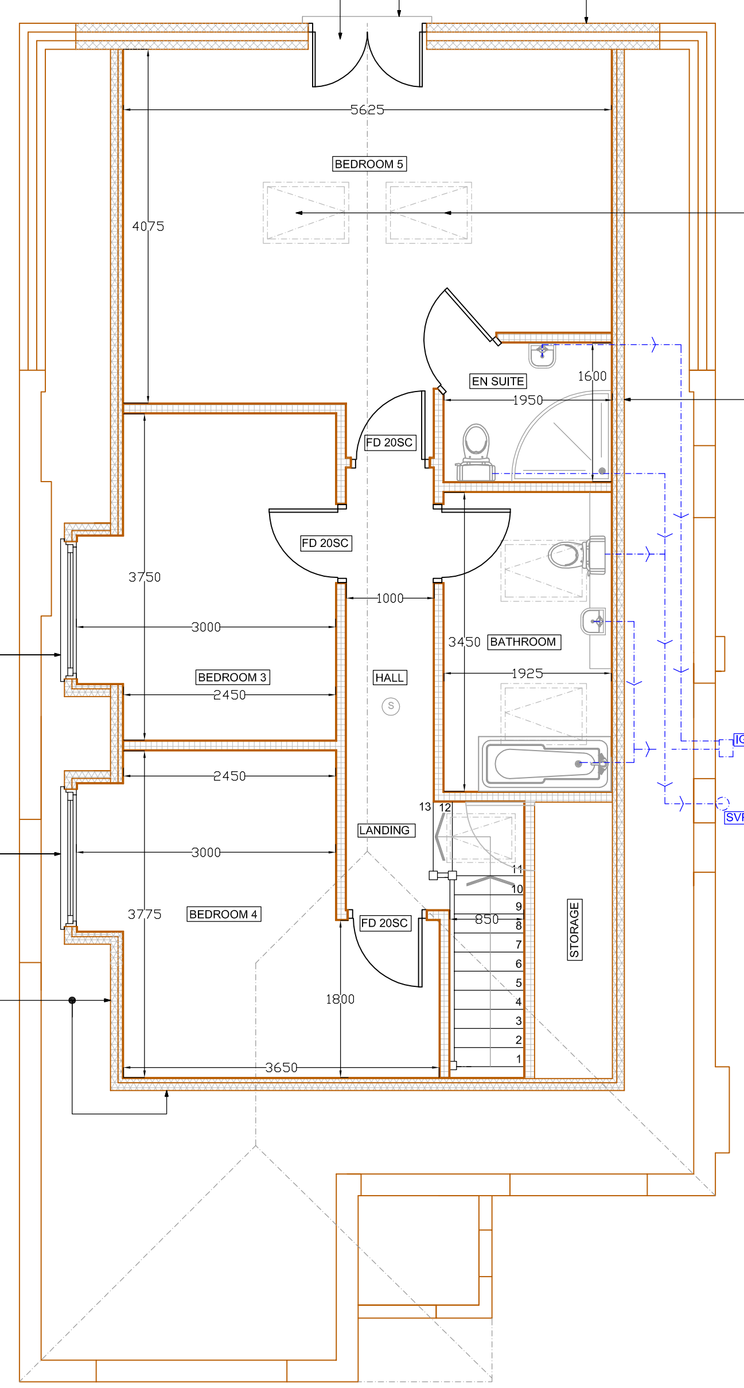
Smoke detection system to be designed and installed in accordance with BS5839 - 6: 2004 and BS 5446 - 1:2002 and BS 5446-2-2003. Detectors are to be mains operated with a secondary power supply for backup.

Glazing.
All glazing installed within 800mm of the finished floor level & 1500mm if installed in a door to be toughened safety glass & to conform to the safe break characteristics as defined by BS 6206.

DOUBLE GLAZED DOORS
WITH 16mm AIR GAP, LOW 'e' COATING
TO ACHIEVE A U VALUE OF 1.6W/m2K
WITH INCORPORATED BACKGROUND VENTS

1). JULIETTE BALCONY BALUSTRADE TO BE A MINIMUM HEIGHT OF 1.1m FROM FINISHED FLOOR LEVEL.
BALUSTRADE TO HAVE VERTICAL UPRIGHTS OF NOT MORE THEN 99mm CENTRES.

2). BALUSTRADE TO BE FIXED WITH COACH BOLTS INTO MASONRY WALL EITHER SIDE OF OPENING.
FIXINGS TO ACHIEVE HORIZONTAL FORCE OF 0.74KN/M



External wall:

1). Render.
2). Blockwork Solar/Turbo/Gti/Supabloc (External Skin).
3) 3.0mm Cavity (Allows for mortar squeeze).
4). 97mm Celotex CF5000.
5). Blockwork Dense (Internal Skin).
6) 13mm Plaster lightweight.

U Value = 0.18W/m2K

Walls rendered with a 1:1:6 Cement/Lime/Sand Mix

External Rendering:
1). 'Renderplas' PVCu belcast/drip beads (Ref; BC10) to be applied at or above DPC level and window heads, to provide protection against impact and deflect rainwater.
Beading to conform to BS EN 13658-3:2005), be BBA certified, Class 1Y fire rated.
To be fitted as per manufacturers instructions.

2). Render to conform with the the British and European standard for the design and application of external render (BS EN 13914-1:2005). Render to be 4-12mm thick.
A waterproof/Biocide additive is to be added to the Render mix;
a). To waterproof the render.
b). To act as a safe and effective control against moss, lichen and algae and to prevent ourbreak of fungal growth.

Thermal bridging to openings;
1). Window sill: Cavity Insulation to run to under side of window board.
2). Windows/Doors: proprietory cavity closers to be provided and installed as per manufacturers instructions. Lintel to be filled with insulation.

ROOF LIGHT WINDOWS
WITH 16mm AIR GAP, LOW 'e' COATING
TO ACHIEVE A U VALUE OF 1.6W/m2K
WITH INCORPORATED BACKGROUND VENTS

Ashlar walls 12mm plywood nailed to 47mm x 100mm vertical timber studs @400mm c/c
Insulation to be 100mm FR4000 Between timber studs, 50mm Celotex FR4000 over studs
Joints taped as VCL, 12.5mm Knauf wallboard.

ROOF LIGHT WINDOWS
WITH 16mm AIR GAP, LOW 'e' COATING
TO ACHIEVE A U VALUE OF 1.6W/m2K
WITH INCORPORATED BACKGROUND VENTS

Internal Wall - Stud partition;
Internal walls offering seperation between a room containing a water closet and other rooms within the dwelling to achieve a reasonable resistance to the passage of sound (Minimum 40db).
Timber stud walls to have a minimum of 75mm between linings with one layer of 15mm plasterboard to both sides achieving a minimum mass of 10kg/m2 between the stud partitioning Sound deadening quilt insulation to fill cavity.

New Staircase.
Staircase to be closed plan - min going 220mm
maximum pitch to be 42 degrees.
Maximum riser to be 190mm. Staircase balustrade designed to prevent a 100mm sphere passing through. Balusters to be vertical
and at 100 c/c, handrail to be min
900mm above pitch line max 1000mm.
Clear unobstructed width min 800mm minimum landing to be 800mm.
2000mm headroom to be obtained to proposed staircase. Two way switches to be fitted to top & bottom of stairs.

Dormer walls (Slate Hung).
Fibre slate on 25mm x 50mm treated timber tile batten, type 1F Felt to BS 747,
12mm exterior plywood nailed to 47mm x 100mm vertical timber Studs @400mm c/c
Insulation to be 100mm FR5000 Between timber studs, 37.5mm Celotex PL4000 over studs
Joints taped as VCL, 3.0mm Plaster skim.

NEW WINDOWS TO FIRST FLOOR TO HAVE AN UNOBSTRUCTED OPENING OF 0.33m2 WITH A MINIMUM DEPTH OR WIDTH OF 450mm. EG 750mm x 450mm OR 600mm x 550mm. THE BOTTOM OF EACH OPENING SHOULD NOT BE MORE THEN 1100mm ABOVE FLOOR.

DOUBLE GLAZED WINDOWS
WITH 16mm AIR GAP, LOW 'e' COATING
TO ACHIEVE A U VALUE OF 1.6W/m2K
WITH INCORPORATED BACKGROUND VENTS

Ashlar walls 12mm plywood nailed to 47mm x 100mm vertical timber studs @400mm c/c
Insulation to be 100mm FR4000 Between timber studs, 50mm Celotex FR4000 over studs
Joints taped as VCL, 12.5mm Knauf wallboard.

PROPOSED LOFT FLOOR PLAN
SCALE BAR 1:50 @ A1

0m 1m 2m 3m 4m 5m 6m
SCALE BAR 1:50 @ A1

Plumbing Installation

Complete installation to be subject to and capable of withstanding testing in accordance with BS 5572:1978. Above ground level foul drainage pipe work shall be PVC-u to BS 4514

Pipework must be designed in accordance with BS 5572 and installed to ensure that appliances drain efficiently without causing crossflow, backfall, leakage or blockage. No air from the drainage system shall be permitted to enter the building. Adequate support to lengths and at junctions - changes of direction to be provided. No branch connection to be within 450mm above foot of soil pipe. All PVC-u pipework to be installed to BS 4514.

Minimum pipe sizes for sanitary plumbing to be;

WC's soil pipes - 100mm dia Nominal size.
Handbasins - 32mm dia Nominal size.
Showers - 32mm dia Nominal size.
Overflow - 19mm dia Nominal size.
Kitchen sink - 32mm dia Nominal size.

All fittings to have a 75mm deep seal traps, All waste pipes to be laid to falls 25mm per metre run. All sanitary fittings to be installed as per manufacturers instructions.

The maximum lengths of waste pipes shall be as follows.

32mm pipe - 1.7m Maximum length.
40mm pipe - 3.0m Maximum length.
50mm pipe - 4.0m Maximum length.
100mm pipe - 6.0m Maximum length.

Soil and ventilating stacks @ head of drainage run to be ventilated to the external air via rigid ducting.
(Min 900mm above any openable window head or within 3m horizontally).

Soil pipes passing through habitable rooms (including kitchens) to be lagged with minimum 50mm sound deadening quilt and 2 layers of 12.5mm plasterboard in 38mm x 38mm softwood framing. Access and rodding eye fittings to be provided to ensure all pipework is accesible as required. Pipework laid between joists to be adequately supported. Underground pipes with less than 750mm ground cover shall be insulated. Any rising mains are to be insulated.

Surface water to be conveyed to existing rainwater drainage system.

Electrical Installation.

All the electrical installation is to be in full accordance with BS 7671 and with the latest addition of IEE wiring regulations.part 'P' building regs, and should be carried out in accordance with current installation techniques applicable to the material and equipement being used.
Full completion certificates to be issued by a certified electrical engineer to be provided upon completion of the electrical installation.

Note that all wiring which is covered or surrounded with thermal insulation to be de-rated in accordance with Appendix A of BRE 'Thermal isulation'; avoiding risks 2002 edition.

All downlighters in first floor ceiling voids are to be fitted with intumescent covers to maintain half hour fire resistance.

All light switches are to be fitted 1200mm from finished floor level and all switched outlets to be fitted 450mm above finished floor levels.

Lighting.
75 % of new light fittings to be energy efficient.

Gas;
All works to the boiler and heating system to be carried out bya Gas Safety Registered person.

The hot water supply to baths/sinks/showers must incorporate measures to ensure that the temperature of the water does not exceed 48 degrees celcius. Thermostatic mixing valves to be provided. Hot Water pipes to be insulated to conserve heat in unheated spaces with material having a thermal conductivity at 40 degrees celcius not exceeding 0.035 W/m2K, having a thickness equal to the diameter of the pipe up to a maximum of 40mm.

Ventilation

All habitable rooms to have rapid ventilation via windows/doors of an openable area of at least 1/20th of the floor area, part of the ventilation area is to be 1.75m above floor area.

Windows are to provide 4000 sq/mm minimum of background ventilation via controlled trickle vents in utility room, en suite and bedroom. All habitable rooms to acheive 8000 sq/mm. Alternatively the sum of all trickle vents must equal 6000 sq/mm as specified in Table 1 of approved document F1.

Bathrooms to be ventilated mechanically ventilated with a wall mounted fan which can acheive extract to external air @ 15 litres per second.

Mechanical vents are to be tested and commisioned in accordance with regulation 42 and part F1 2010.

GENERAL NOTES:

THIS DRAWING IS NOT TO BE SCALED. THE MAIN CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS WITH ANY DISCREPANCIES REPORTED TO GREENFIELDS ARCHITECTURAL SERVICES AT ONCE.

ANY CONSTRUCTION WORK CARRIED OUT PRIOR TO OBTAINING THE NECESSARY APPROVALS IS ENTIRELY AT THE HOUSEHOLDER/CONTRACTORS RISK.

ALL BUILDING WORK IS TO BE CARRIED OUT TO THE SATISFACTION OF THE LOCAL AUTHORITY AND BUILDING CONTROL OFFICER, AND IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS, AND AS SUCH ANY UNFORESEEN BUILDING WORKS THAT MAY BE REQUIRED ON SITE.

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DRAWING TITLE: PROPOSED LOFT FLOOR PLAN

SITE ADDRESS: 58 EVELYN AVENUE, RUISLIP.

SCALE: 1:50 @ A1 | DRAWN BY: BG

DATE: 20.04.18

DRAWING NO:EVELYN/04