

STRUCTURE

FOUNDATIONS, STEEL BEAMS, PURLINS, RAFTERS, LINTELS, FLOOR JOISTS, PADSTONES & BEARINGS, SUSPENDED SOLID FLOORS, BLOCK STRENGTH, LATERAL RESTRAINT, SCREEN WALLS, RETAINING WALLS, ALL MOVEMENT JOINTS , PIER SIZES & STRUCTURAL STABILITY OF WALLS, BUTTRESSES ETC., TO BE DESIGNED BY STRUCTURAL ENGINEER.

New steel beams inserted together with padstones etc to carry existing/new construction all to structural calculations.
HALF HOUR FIRE PROTECTION; to structural steel beams supporting floors and steel columns to be encased with 12.5mm Fireline plasterboard and skim to give 30mins fire resistance.
If restricted space around beams then coat the steelwork with intumescent paint to the thickness required by the manufacturer to provide 30mins fire protection

Piers & corner piers minimum brick return of 650mm measured externally or 400mm internally.
Lintels to be insulated in external walls.
Weep holes at 450mm centres over lintels

Foundations within 5m of any trees to be adequate for root protection.

DOORS & WINDOWS

Glazing in doors which is wholly or partially within 1500mm from floor level and any glazing between finished floor level and 800mm above that level in internal and external walls and partitions should conform to at least Class C of BS 6206.
However if the smaller dimension of the pane is greater than 900MM, it should conform to at least Class B of BS 6206. In both cases glass must be marked in accordance with BS 6206.
Window and Door Reveals
All window reveals to be formed by closing cavity at jams and cills with Thermabate or similar approved, insulated cavity closer to avoid cold bridging, installed strictly in accordance with manufacturers instructions.

ALL EXTERNAL DOORS AND WINDOWS TO BE DOUBLE GLAZED

Windows and doors to be glazed with 24mm minimum sealed double glazed units comprising Low E glass or K glass of 0.15 emissivity and 16mm gap giving a U value of 1.5W/sq.m K
Velux windows to be fitted with double glazed units giving u value of better than 1.5W/sq.m K and to have double rafters to both sides, top & bottom
Rooflight to be 'Plateau' from The Rooflight Company, fitted with double glazed units giving u value of better than 1.5W/sq.m K and to have double rafters to both sides, top & bottom and fitted in accordance with the manufacturers details and instructions and to be compatible with the single ply roof.
All new first floor bedrooms to have windows capable of being used as a means of escape ie; a minimum of 0.33sq.m, and at least 450mm wide & 450mm high clear opening with the cill between 800 & 1100mm above floor level
Windows to have min 1/20th floor area as opening lights and 1/10th floor area as glazed area to all habitable rooms.

WOOD BURNING STOVE

Stove to be fitted in accordance with Approved document J an the manufacturers instructions by a person competent to do so.

The stove must sit on a hearth made from non combustible sheet or tiles, min 12mm thick, ensuring that appliance has been tested to an applicable appliance standard to verify that it cannot cause the temperature of the upper surface of the hearth to exceed 100°.
Hearth to be formed in accordance with diagram 25 of approved document J, extending at least 150mm to the rear and side of the appliance, and 225mm to the front for a closed appliance, or 300mm for an open appliance (or closed appliance that can be properly operated with it's front open), with level change between hearth and floor. Set appliance min 150mm clear from suitably heat resistant walls and in strict accordance with manufacturer details and recommendations.

The stove flue pipe to be connected to a twin wall stainless steel insulated
Flue pipe or a Flexible stainless steel liner to be used in the new brick chimney.
The chimney liner must be suitable for the application and the manufacturer's fitting instructions must be followed.
Chimney liner must be installed in one continuous length with no joints within the chimney.

A stove with an output of more than 5kW a dedicated permanently open ventilation be installed with a cross sectional area of at least 550 sq.mm for every kW above 5.
The vent should be placed in such a way that it cannot be easily blocked and so that house residents are not tempted to block it off to reduce draughts or noise.
A Ventilator guard mesh size must be no less than 5mm.
Air bricks to have insect mesh to provide permanently open vents as below: If design air permeability >5.0m3/(h.m2) then 300mm2/kW for first 5kW of appliance rated output 850mm2/kW for balance of appliance rated output. If design air permeability <=5.0m3/(h.m2) then 850mm2/kW of appliance rated output. Permanently open air vents should be non-adjustable, sized to admit sufficient air for the purpose intended and positioned where they are unlikely to become blocked.
External vent terminals are colour matched to suit the external wall finish.

A notice plate must be completed and permanently posted in the building when hearths or flues have been installed.
This then applies to stove installation, chimney lining, hearth installation, twin wall flue pipe installation, pumice liner installation, concrete liner installation, and in many other instances. The notice plate shows the position of the hearth and/or flue and gives essential information about the materials used such as the manufacturer and flue diameter.

The notice plate should be displayed either:

by the electricity consumer meter,
by the water stop-cock,
by the hearth or flue that it describes

DRAINAGE

New 100mm drain system constructed in plastics.
Drain to be protected with 75mm concrete slab laid to the full width of the trench 150mm above the pipe where less than 600mm of cover.
All drains to be surrounded by pea gravel.
Concrete lintels provided to both leaves of external walls and internal wall where drains pass through. 50mm space all round drainpipe with masking both sides of 9mm Supalux board.
All drainage laid in accordance with BS.8301.

RAINWATER

All rainwater gutters, downpipes etc., to be black Upvc and to discharge via trapped access gullies to a suitably sized soakaway

PLUMBING

All new soil and vent pipes to be 100mm dia. Upvc fixed with wall brackets at 2.0M centres.
All bends in SVP to be so constructed as to have the largest possible radius of curvature and no change in cross section of the pipe throughout the bend.
New & Existing SVP to discharge to outside air via tile vent or similar approved terminal
Internal S & VP to be boxed in using 50 x 50 s.w. timber framing and 12.5mm plasterboard and skim.
All waste connections to S and VP's to be separated from the 100mm dia. WC. connection by 200mm measured vertically.
Sinks to have 40mm dia. Upvc branch pipes. Lavatory basins to have 32mm wastes up to 1.7 metre length, increased to 40mm up to 3.0 metre lengths. 50mm wastes over 3.0m
Hot and cold water to all sinks & whb's
All earthing of pipework is to be concealed.
All sanitary fittings to be individually trapped with 75mm deep seal traps.
Stub vent pipes to be fitted with air admittance valve above the spillover level of the highest appliance connected to it.
The boxing of the stub pipe to have an air vent grille at high level.
Hot water to bath to be limited to 48degrees C by use of in line blending valve to comply with the requirements of BS EN1111:1999

Anti-syphon traps to BS 3943 into soil vent pipe or air attaining value as indicated. No branch to discharge into SVP lower than 450mm above invert of tail of the bend at the base of the stack.

Access plate to be provided at the base of each tack immediately above FFL min 200mm bend at the base.

ALL WATER INLETS AND DRAINAGE, AS WELL AS POSITIONS OF NEW OR RELOCATED MANHOLES TO BE AGREED WITH THE BUILDER ON SITE

MANHOLES

For depths of over 900 mm to be constructed in Class B engineering brickwork, min wall thickness 225 mm, and flush pointed internally.
Base slab to be 150 mm thick concrete. Benching channel to be 30 degrees and topped with monolithic render (1:1 mortar).
Back filling to chamber should not be carried out until 48 hours after construction and hand packed with selected hard material.
Manholes deeper than 1.0 m to be fitted with iron steps set at 300 mm apart vertically and 200 mm apart horizontally.
Inspection chambers 900mm deep max to be Hepworth or similar 450mm dia polypropylene fitted in accordance with the manufacturers details and instructions

HEATING

to be extended small bore h.w. radiator system
Thermostatic control in ground floor hall space and thermostatic valves to all radiators
New floor areas to have underfloor heating system if required
Space and water heating also controlled using a manually adjustable timer

Heating system generally to comply with the requirements of BS5449:1990

Existing boiler to remain in existing position. Details to be found on site visit.
Hot water & heating systems Hot water & heating system to be sealed gas fired condensing combi boiler with automatic ignition with balanced flue - outlet to terminate externally through the external wall 300mm from any opening light. System to be designed & installed by a Capita gas safe registered heating engineer/contractor. All radiators are to be convector type with thermostatic valves. New boilers to have a SEDBUK rating of 88.

Rating & capacity of existing boiler to be checked for adequacy to ensure enough spare output to be capable of servicing new extension.

SOAKAWAYS

Position on site to be agreed with L.A. inspector but must be a of 5M from any building and subject to the results of standard percolation test.

FALLS: Foul and Surface water drains to be laid at 1:60 min unless otherwise stated.

Foul water drainage runs and connections to be inspected and fully agreed by the Building Control prior to backfilling of trenches
New drains to be connected to mains sewerage system to have permission obtained by relevant statutory authority.

COMMISSIONING

Upon completion of the works the builder is required to issue to the building inspector a notice confirming that the fixed building services have been commissioned in accordance with a procedure approved by the secretary of state.
A set of operating and maintenance instructions should be left for the occupier.

PART Q

SECURITY DOORS

All external doors and windows to be designed to meet security requirements of British Standard Publication PAS 24:2012 and letter plates to have max aperture of 260 x 40mm and to be located as per par 1.3 of Part Q.
Main doors to each dwelling to have door viewer, door chain or door limiter.

All door and window frames to be mechanically fixed to the structure in accordance with the manufacturers instructions.

WINDOWS

Windows to ground floor level, basement and easily accessible rooflights manufactured to meet the security requirements of British Standards publication PAS 24:2012, or designed and manufactured in accordance with Appendix B of Approved Document Q.

All door and window frames to be mechanically fixed to the structure in accordance with the manufacturers instructions.

PART R

INFRASTRUCTURE

In accordance with Part R of the Building Regulations, provide physical infrastructure (from the service providers access point to the occupiers network termination point) so that copper or fibre optic cables or wireless devices capable of delivering broadband speeds greater than 30mpbs can be installed.

ENERGY CONSERVATION

Low Energy at 40 lumens per circuit watt efficacy in accordance with L1 para 42 to be fitted to all rooms.

SMOKE ALARM

Automatic smoke alarms, to BS 5446 part 1, connected to mains supply with battery back up. Smoke alarms to be interconnected and installed to BS5839 part 6 2013 - category LD3 Electrician to supply commission certificate on completion

A self contained smoke alarm is to be fitted to each storey of the dwelling house, each one fitted in the circulation area, and interconnected. If ceiling mounted it is to be at least 300mm from any wall or light unit. If wall mounted it is to be fixed between 150 and 300mm below the ceiling. The smoke alarm is not to be located immediately above a stair shaft so that easy access is available to the unit and is to be located within 7 metres of a kitchen or living room or within 3 metres of a bedroom.

SMOKE DETECTION / FIRE PROTECTION

Interlinked mains operated smoke detectors with battery back up to be located in hall and landing areas, and a heat detector in the kitchen (all to BS 5839 pt 6, 2004 LD3).

SD Smoke detectors to be provided in positions shown.

CO Carbon Monoxide detector fitted in rooms with a boiler

HD Heat Detector fitted in kitchen

FD30 = Fire Door with 20 Minutes (minimum) integrity & rising butt hinges self closing

FD30s = 30 Minutes integrity fire door with self closing device and smoke stop and intumescent se

ELECTRICAL INSTALLATION

All new cable runs to be concealed, no surface wiring is to be used. Switches, sockets and other electrical equipment controls are to be positioned at a height usable by all i.e between a height of 450mm&1200mm above finished floor level in accordance with approved document M.
All work to comply with the latest edition of the IEE code. Contractor to allow for extending existing circuits as necessary.

Energy efficient bulbs & fittings to be provided in areas indicated thus (E) one number light fitting installed which will only take lamps having a luminous efficacy greater than 40 lumens per circuit-watt.
Any new external mounted light fitting are to be fitted with energy efficient Either a lamp not exceeding 150watts per fitting with automatic switch off when there is insufficient light and at night when light is not required or a light fitting with a socket that can only be used with bulbs having an efficiency greater than 40 lumens per circuit watt.

All electrical works to be carried out to meet the requirement of part P of the building regulations by a person competent to do so.
Prior to completion the local authority are to be provided with a copy of either:
An electrical installation certificate issued under a competent person scheme
or
An electrical installation certificates as defined in BS 7671 signed by a person competent to do so.

ELECTRICAL INSTALLATION AND POSITIONS OF SOCKETS AND LIGHTS TO BE DISCUSSED WITH BUILDER OR ELECTRICIAN

ALL DIMS IN MILLIMETERS UNLESS NOTED OTHERWISE
DO NOT SCALE EXCEPT FOR PLANNING PURPOSES
IF IN DOUBT - ASK

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