

New external cavity wall to be constructed of 102mm reclaimed sandstone walling pitch face with quoins, window sills to have stone cills, heads and jambs. Kingspan Kooltherm K8 cavity insulation batts within 100mm cavity, 100mm T7 concrete block with 40mm insulated plasterboard dry-lining and skin. Cantic BB12 rainwater eaves and gutters to be installed with BS 245 (187) rainwater pipes. Cavity to be closed along eaves and around all openings with Cantic CC50 insulated cavity closers positioned horizontally and vertically to all openings. All openings are to be provided with Cantic Intels with a minimum end bearing of 150mm at both ends. Brickwork used below DPC to be constructed in Class B engineering or trench block may be used, the cavity is to be filled within 200mm of the DPC with weak mix concrete. All new cavity walls are to be cut through to existing cavities and be continuous. U value 0.29

100mm dia. deep flow square section PVC-U gutters are to be fixed to falls on fascia boards, spitter outlets are to be 75mm dia., with 75mm square section rain water pipes with swan neck and anti-splash shoe. all pipes are to be secured with proprietary brackets and fixed with brass screws.

A cavity tray must be provided above any lintel or ground floor roof, the tray must be fixed in to the wall, all cavity tray membranes must be installed directly above the lead flashings and also be provided with weep holes in at least two vertical joints.

Welsh blue slates laid at a pitch of 25 degrees on 50 x 25mm s/w battens on nil vent felt over standard roof in a room trusses at 600mm centres. Rafters to be clipped to 75 x 100mm s/w wallplate using truss clips and strapped to blockwork with Catnic type L vertical m/s straps at least one meter in length at 2 meter centers.

Insulation of the roof space is to be 100mm Kingspan laid between rafters with 40mm insulated plaster board over rafters with plaster skim. The insulation is to be extended over the timber wall plates off the internal wall maintaining a minimum 50mm air gap between the insulation and the sarking felt to ensure through ventilation of the roof space.

All non-load bearing partitions are to be constructed of 100 x 50mm s/w studding at 450mm centres on 100 x 75mm sole plate fixed to the floor. Partition to be insulated with Rockwool bats for sound insulation and covered with 12.5mm thick plasterboard with a density of 10kg/m² and skim to both sides.

Timber skirting boards are to be provided to all rooms to match existing or if new 200mm x 25mm, all skirting boards are to be treated before fixing.

Glazing in doors and windows must comply with safety regulations applicable to their locations. Information is contained in the Approved Document Part N and the Workplace (Health, Safety and Welfare) Regulations 1992.

Floor to be constructed of 18mm thick T&G floor boards with a density of 15kg/m² on 244 x 72mm gauged s/w floor joists (grade SC3) at 400mm centers. Ceiling to be 12mm plasterboard nailed to underside of joists with plaster skim finish. Lateral support to be provided at 2m centers with galvanized m/s straps type L 30 x 5mm extended across 3 joists. Catnic m/s herring bone strutting ref: HRB6, is to be provided along mid-span of floor joist, last joist to be packed off the brick/blockwork.

Damp proof course is to be provided in both inner and outer leaf of Brick/blockwork the outer leaf DPC must be at least 150mm above the finished ground level, the inner DPC is to be linked with the floor damp proof membrane (solid floor construction) in the case of timber suspended floors directly under the joists.

The balustrade to the balcony is to be laminated glass 1.1m in height with Stainless Steel supports and fastenings

The balcony floor is to be 175x75mm timber joists at 400mm crs, with ferrings to provide a cross fall, 22mm external plywood decking screwed to joists ply to be covered with GRP fiberglass and then promenade stone tiles fixed with Buzon adjustable support system

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All new underground floor drainage is to be 100mm diameter underground PVC-U pipe, manufactured by Hepworth Ltd, to BS 85 with flexible joints. Pipes are to be laid on 100mm bed of granular material to BS 88: 1983 e.g. pea gravel, (Class S), 100mm pipes are to be laid to a fall of 1:40, maximum capacity for 100mm pipes is 2 litres/sec. Drains passing under the building are to be surrounded with granular material and where passing through wall a suitably sized lintel shall be provided above the opening ensuring that a 50mm space is maintained all around the pipe. Openings must be masked to prevent fall. Pipes are to be fitted with a flexible joint at each side to the wall. New gullies are to be provided with roding access. WC connections are to have rest bends and 100mm vent pipes at the head of the drain.

All waste pipes are to be a minimum of 38mm dia. to wash hand basins and sinks, pipes are to be fitted with 75mm deep seal traps or anti-vac traps if connected directly to a soil and vent pipe. 40mm waste pipes are to be provided to bath and showers. Soil and vent pipes are to be 100mm dia and terminated 1m above any opening windows adjacent to the stack, a suitable bird cage is to be fitted to the top of the stack. Alternatively an air admittance valve may be used above the last stack connection. All installations are to comply with the Approved Document Part H and BS 5572 (1978).

New ground floor to be construction, clean stone well compacted to form levels with sand blinding, 1200 gauge polythene DPM to be turned up at edges and linked in to the DPC. kinksipan Kooltherm K3 board 70mm thick with a top layer of 1000 gauge DPM membrane, slab 200mm concrete with one layer of A142 anti clacking steel reinforcement to be place 50mm from the top of the slab.

U value 0.22

All electrical work required to meet the requirements of Part P (electrical safety) will be designed, installed, inspected and tested by a person competent to do so. Prior to completion the L.A. must be satisfied that either:-

An electrical installation certificate issued under a Competent Person Scheme has been issued; or

Appropriate certificates and forms defined in BS 7671 (as amended) have been submitted that confirms that the work has been inspected and tested by a competent person. A competent person will have a sound knowledge and experience relevant to the nature of the work undertaken and to the technical standards set down in BS 7671, be fully versed in the inspection and testing procedures contained in the regulations and employ adequate testing equipment.

-All electrical sockets are to be placed at a height of 450mm above floor level all light switches are to be 1200mm from floor level.
lower energy light fitting are to be provided in all rooms

4.4 Fired Boilers must have a minimum SEDBUK rating of 85% (Special Circumstances permitting the installation of a

Form' using the procedure described in the document 'Guide to the Condensing Boiler Installation Procedure for dwellings' (ODPM 2005). The declaration should be retained by the householder as it may be needed when the property is offered for sale.

75mm glassfibre insulation to be placed into all partition walls,
Floors Acoustilay 15 to be laid on all upper floors for impact noise to comply with Part E.
100mm fiberglass insulation to be placed between ceiling and floor on all upper floors to comply with part E

Partition walls constructed of concrete floor slab are to be 100mm thick lightweight blocks, any internal load bearing partition walls are to be constructed from 100mm solid concrete block and taken down to strip foundation or constructed on reinforced concrete slabs.

All top water drainage are to be 100mm underground PVC-U or Supersleeve with flexible joints piping to be laid at a minimum fall of 1:40. Drains passing under the building are to be protected by surrounded with 100mm (min) granular material and where passing through a wall a suitably sized lintel is to be provided over the opening ensuring that a 50mm space is maintained around the pipe. Openings must be masked to prevent fill. All underground drainage to comply with BS 8301 (1985) new gullies to be provided with rodding access, separate drainage systems are to be combined at the last manhole depending on existing drainage systems.

New drainage for the surface water is to be taken to the existing field culvert.

New inspection chamber to be pre-cast or polypropylene inspection chamber if maximum depth does not exceed 1200mm. Chamber connections or for 100mm dia. pipes as indicated on the drainage drawing. Chamber to be encased with well compacted select back fill, or weak mix concrete, chamber to be fitted with medium duty cover and frame. Inspection chambers are to be provided at every change of direction on foul drains, maximum distance between inspection chambers to be 45m to comply with the Approved Document Part H, any branch drain must not exceed 22m in length.

Mechanical ventilation fans are required to be fixed to all kitchen areas, utility areas and sanitary accommodation. The kitchen fans are to extract 60 litres per second or if incorporated within a cooker hood 30 litres per second will be required.

Mechanical ventilation is required to provide three air changes per hour with a 15 minute over run discharging to external air and controlled by the light switch or detecting sensor. An air inlet to the room should be provided i.e. a 10mm gap under the door.

All external timber is to be treated before fixing, fascia and soffit boards are to be external grade or marine ply.

Fire doors are to be to the fire resistance indicated on the drawing. All fire resisting doors are to be fitted in a 25mm rebated door frame, doors/frame are to be fitted with intumescent strips and smoke seals. All doors are to be fitted with self closing device capable of latching the door.

Steelwork must comply with the relevant structural calculations and be supported on pad stones or spreader plates. All steelwork must be provided within the calculations. All steelwork must have a minimum of 30mins fire resistance provided by 12mm fireline plasterboard and skim. Steelwork used in external openings must be provided with a cavity tray.

Escape windows where required are to be at least 850mm high and 500mm wide, the bottom of the window is to be not more than 1100mm and not less than 900mm from floor level.

Smoke alarms are required to be fixed at ground and first floor levels and interconnected. The alarm must be wired to the ring supply and connected to its own fused spur, alternatively the alarm may be connected to an intruder alarm if the system is specifically designed for this purpose. A smoke detector will cover an area of 7.5m radius and a heat detector 5.3m radius, they should be fitted in accordance with BS 5839 sitting near to within bedrooms, circulation area, head of stairways, lounge/dining rooms and roof voids. Alarms within roof voids should be fitted with a remote LED.

Heating to be provided by low pressure radiators with a fan assisted combi boiler. The installation is to be fitted in accordance with the Gas Regulations with a CORGI registered fitter.

All unvented systems are to have an expansion pipe piped to the external elevation and extended down to floor level.

The new staircase shall comply with Part K of the Approved Document. The maximum rise and going for a private stair shall be any rise between 155mm and 220mm used with any going between 245mm and 260mm or any rise between 165mm and 200mm used with any going between 225mm and 300mm. The pitch of the stairs shall be no greater than 42 degrees with a minimum headroom of 2m. The handrail is to be a minimum of 900mm high. Balustrades are to be 1m high and capable of resisting a horizontal force of at least 0.36kN/m for each meter length. Maximum openings in the balustrades shall be no greater than 100mm and rails are to be vertical so as not to allow children to readily climb the guarding. Guarding to external balconies and roof edges to be a minimum of 1100mm high and resist a horizontal force of 0.74kN/m.

The window frames are to be insulated aluminium powder coated Anthracite dark grey frames and be 1/10th of the floor area and having 1/20th opening lights and trickle vents to achieve 8000m3 free air flow, windows are to be fitted with double glazed units having a minimum 28mm air gap with glass and argon filled and low-E coating. All frames are to have vertical and horizontal DPC's to all openings.

Seal-a-mastic seals are to be provided around all window door frames to provide a water tight seal. All glazing must be carried out in accordance with BS 6262. See notes on glazing in critical locations i.e. safety glazing.

Foundations are to be concrete strip minimum 600mm wide x 150mm thick C25 concrete mix, foundations are to be a minimum depth of 1m in clay sub-soil to provide adequate frost protection in accordance with the British Standards. All foundations are to comply with the Approved Document A1 and A2 of the Building Regulations.