

Ground Floor Plan
84 sq metres or 905sq feet

WHOLE HOUSE VENTILATION
Method 1 of Technical booklet K for whole house ventilation to be used, provide PIV units to comply with Table 2.2 of Technical booklet K in min of 0.3/s per of floor area to be provided.
BACKGROUND VENTILATION (PIV)
Provide Positive Input Ventilation System to provide positive pressure whole building ventilation. System design to be submitted to Building Control for approval. Unit should be installed as high as practical and not within 400mm of the junction of ceiling/wall. Terminals should be located and directed to avoid draughts. Where ducts, etc. are provided in a dwelling with a protected stairway, precautions may be necessary to avoid the possibility of the system allowing smoke or fire to spread into the stairway.
To ensure good transfer of air throughout the dwelling, there should be an undercut of minimum area 7600 mm² in all doors within the dwelling above the floor finish. (e.g. this is equivalent to an undercut of 10 mm for a standard 780 mm width door).
PIV controls should be set up to operate without occupant intervention, but may have manual or automatic controls to overtake the boost rate.
NB
Contractor/client may use alternative ventilation system but only with strict approval by building control and architect.
Any changes will be the contractor/client responsibility if not pre-approved by building control.

To prevent build up of foul within manhole SVP should be at least 1200mm away from manhole. When forming a 90 degree turn at a manhole location a 45 degree elbow either side of the manhole should be employed.

Drainage
100mm dia uPVC foul and rainwater sewer pipes to BS 4660, laid to a fall between 1:40 and 1:50 with movement joints at 6m ctrs. Sewer pipes to be surrounded with 150mm pea gravel covered with a 150mm concrete slab for width of trench. Where cover to sewers in vehicular is less than 600mm then sewers to be wrapped in polythene and completely surrounded with 150mm concrete.
All sewer/waste pipes laid under solid floors to be wrapped in polythene before placing concrete.
Provide lintels over sewer/waste pipes where same pass through walls. Where sewer pipes are laid within 1 metre of foundations, then the trench to be filled with concrete to underside of foundation level.

Manhole covers to be to BS EN 124
Group 1 min A15 landscaped areas
Group 2 min B12 Footpaths, car parks and private drives
Group 4 min D40 parking areas and shoulders and
Group 6 min F90 Areas subject to high wheel loads.

Concrete manholes to conform to BS 8301
Internal manhole sizes

width(mm)	Depth to invert(mm)	Length and
610	610-915	610 x 460 x 740
570	915-1850	1000 x 660
	1850-4550	1350 x 800

All manholes over 1200mm deep to be provided with step irons. Last manhole to be within 12.0m of public sewer connection.
Installation of sealed rodding access eye (r.a.e.) to be in accordance with manufacturers instructions.
Foul gullies to be back inlet type with 100 diameter branch taken under-floor to position of appliance. Wastes to be not less in diameter than outlet with increase in size where necessary to prevent syphonage.
Rodding access to be provided to all wastes at any change in direction. Provide deep seal traps to all appliances inside building. Provide precast concrete surrounds to all gully traps. All 100mm dia. Upstands to be fitted with reducers to 75mm dia. gully traps.

Blue/Black concrete tiles on 50x25mm pressure impregnated battens
Tyvek breathable roofing felt installed as per manufacturer's instructions.
Trusses rafters @ 400ctrs manufactured by an approved firm to B.S.5268 : part 3 : 2006
Trusses to be erected in accordance with manufacturers specification No truss to be cut or altered on site.
Calculations to include a roof plan indicating position of all bracing, details of truss specialists.
Lateral restraint to gable peaks to comply with BS5268 part 3
All structural timber to be C16 in accordance with B.S. 5268 Part 2: 1996 and to be clearly marked.
All structural timber to be marked dry.

Where timbers are located parallel to walls, walls to be given roof lateral support by means of 30x5mm galvanised M.S. Anchors @ 2.0m centres having one end built into wall and the other fixed to at least 3no. rafters, ceiling joists and floor joists (if applicable).
Provide 227 litre PVC cold water storage tank on fully boarded platform on bearers over joists. All tanks to be insulated with 50mm aeroboard.

Maintain 50mm Air gap with continuous roll out rafter eave vent tray
Tyvek membrane laid over tyvek eaves carrier (150mm overlap), discharging to gutter.
Manthorpe white Continuous Soffit Vent for 6-10mm Board 10,000mm² Airflow

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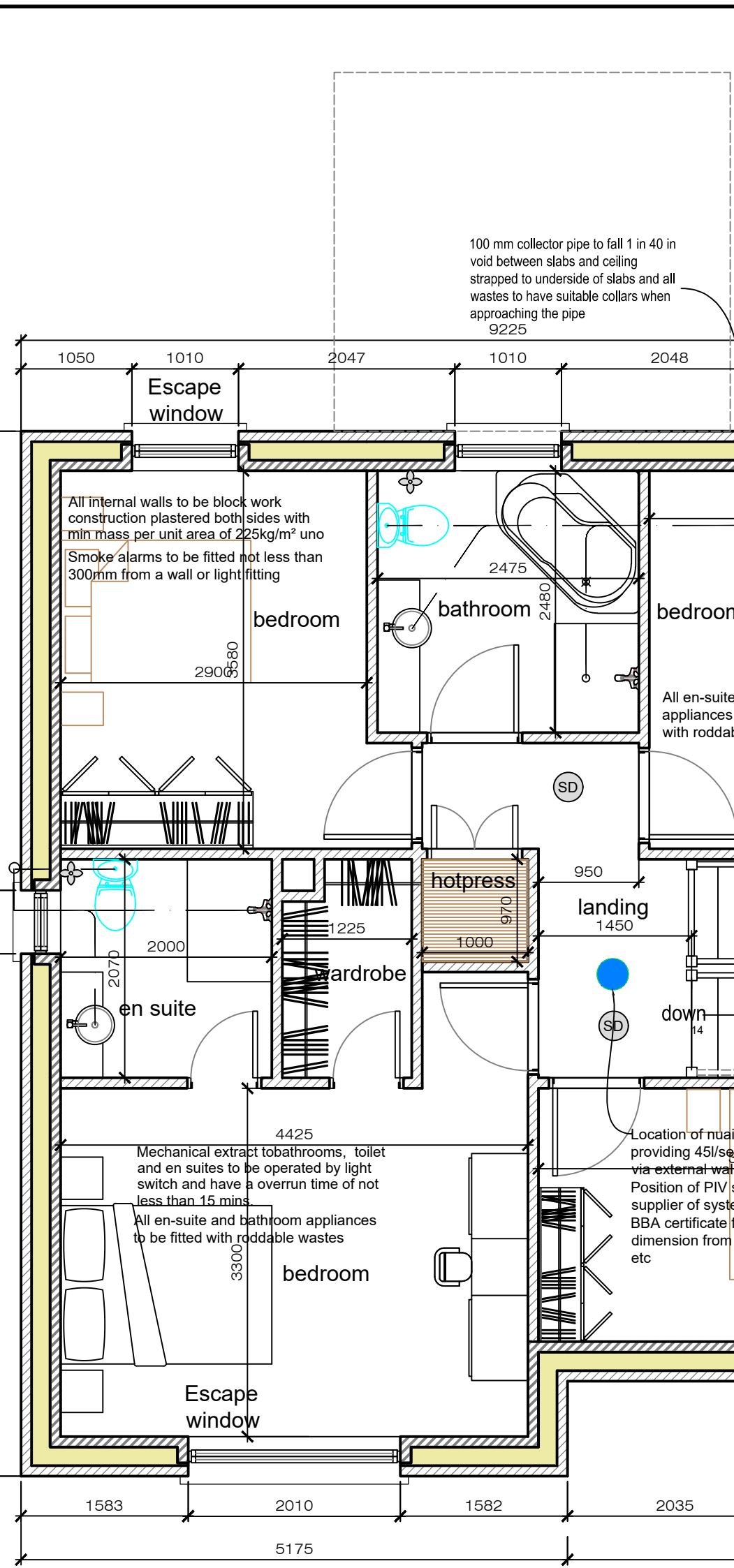
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Close cavity with calcium silicate board
Ensure insulation over wallplate to avoid cold bridging ensuring ventilation gap is maintained.
All blockwork to have minimum crushing strength of 5N/mm² sq.
Wall ties 250mm long Ancon ST1 Wall Tie Type 1 Tie to PD 6697 - spacing 750mm horizontally, 450mm vertically.
Insulation to cavity to be Ecobead Pumped Cavity Wall Insulation as per Manufacturers data sheet and instructions.
Reinforced concrete lintels as per schedule with stepped dpc.
Precast concrete sills with dpc turned up back and sides.
dpc to wall to be minimum 150mm above ground level.
1200mm wide concrete path around building.
100 mm diameter perforated land drain in pea gravel trench discharging to storm sewer.
Vertical joints left open at 900mm spacing.

Mid floor construction:
75mm screed on absorbent layer on concrete floor units by specialist manufacturer
Ceiling to be suspended 15mm plaster board, bond and skim
Where waste pipes are routed through the ceiling void they are to be fixed to underside of concrete units and wrapped in rockwool insulation to reduce noise.
100 mm diameter perforated land drain in pea gravel trench discharging to storm sewer.
Vertical joints left open at 900mm spacing.

Foundations
900 x 300mm concrete to all new cavity walls.
600x300mm concrete to new 100mm, 150mm and 215 mm wide walls. Depth of foundation to suit site conditions, bearing as per Technical Booklet D. If this cannot be achieved an amended design and soil investigation report will be forwarded to building control.
Foundation width and depth to be determined on site when ground conditions are known, same to be taken down to firm load bearing strata.

Floor Construction
100 sand cement screed on 150mm Kingspan ThermoFloor insulation on 1200 gauge damp proof membrane glued to damp-proof course in walls on 150mm concrete sub-floor on Radon barrier on blinded hardcore 300mm minimum depth and 600mm maximum depth mechanically compacted in 225mm layers.



First Floor Plan
74 sq metres or 797sq feet

100 mm collector pipe to fall in 40 in void between slabs and ceiling strapped to underside of slabs and all wastes to have suitable collars when approaching the pipe 32x25.

All internal walls to be block work construction plastered both sides with min mass per unit area of 25kg/m² uno
Smoke alarms to be fitted hot less than 300mm from a wall or light fitting.

All en-suite and bathroom appliances to be fitted with roddable wastes
Position of PIV system to be agreed with supplier of system and to comply with BBA certificate for product including dimension from smoke detectors, lighting etc.

Location of main firemaster 2000 unit providing 45% reduced from external air
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Trusses to be braced in accordance with B.S. 5268: Part 3: 2006
1- 20x125mm longitudinal binders
2- 20x125mm chevron bracing
3- 20x125mm diagonal wall bracing
Roof truss design and calculations to be submitted to Building Control 14 days prior to erection of truss on site. Calculations to include a roof plan indicating position of all bracing, details of truss specialists.
Lateral restraint to gable peaks to comply with BS5268 part 3
All structural timber to be C16 in accordance with B.S. 5268 Part 2: 1996 and to be clearly marked.
All structural timber to be marked dry.

LIMITING AIR INFILTRATION
To reduce the infiltration of cold air, leakage paths throughout the building shall be adequately sealed in the following locations:
At the edges of openings such as windows and doors and at junctions with walls, floors and ceilings. Gaps between frames and openings and draught proofing the openable elements of windows, doors and rooflights. Hatches to unheated floor and roof voids. Service penetrations at floor and ceiling junctions where services are not boxed in. Around joint ends where joints are built into the external walls. Vapour control membranes in timber framed construction.
All blockwork to have minimum crushing strength of 5N/mm² sq.
Wall ties 250mm long Ancon ST1 Wall Tie Type 1 Tie to PD 6697 - spacing 750mm horizontally, 450mm vertically.
Insulation to cavity to be Ecobead Pumped Cavity Wall Insulation as per Manufacturers data sheet and instructions.

Roof construction.
Blue/Black concrete tiles on 50x25mm pressure impregnated battens
Tyvek breathable roofing felt installed as per manufacturer's instructions.
Raised Tie Truss rafters @ 400ctrs manufactured by an approved firm to B.S.5268 : part 3 : 2006
Trusses to be erected in accordance with manufacturers specification No truss to be cut or altered on site.
100 x 50mm treated timber wallplate strapped to inner leaf using 10mm galvanised straps @ 1.5m centres
200mm Knauf Loft Roll insulation laid between joists and 200mm Knauf Loft Roll insulation laid above joists
200mm Kingspan Kooltherm K118 Insulated Plasterboard to underside of joists fixed as per product brochure instructions with bond and skim finish to achieve Class 1 spread of flame.

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100 sand cement screed on 150mm Kingspan ThermoFloor insulation on 1200 gauge damp proof membrane glued to damp-proof course in walls on 150mm concrete sub-floor on Radon barrier on blinded hardcore 300mm minimum depth and 600mm maximum depth mechanically compacted in 225mm layers.

It shall be presumed that the Contractor has visited the site and the boundaries before tendering, inspected the form and conditions of contract, drawings and specification and made himself thoroughly acquainted with the nature and requirements of the proposed works, and has examined the approaches and levels of the site and all the conditions under which he is to carry out the Contract. No extras through lack of knowledge of the site conditions will be entertained by the Architect.
All dimensions to be checked by contractor/fabricators prior to construction/fabrication of materials (floors, windows, doors, drainage etc). Contractors shall comply with CDM regulations and Health and Safety legislation.
All works shall be carried out in accordance with accredited construction details (DCLG publication)
An air permeability rate of 0.3m³/h/m² @ 50Pa or less must be achieved by test on completion of the dwelling if required by the Building Control Authority.
All fixed services shall be properly commissioned and signed by a suitably qualified person and a copy given to the building owner and District Council. The building owner shall be given sufficient information on specific apparatus/systems installed, including operational and maintenance instructions, to enable the dwelling and its fixed services to be used in an energy efficient manner.
An energy rating for the completed dwelling will be calculated using the same software that is used to calculate the DER and TER and a notice stating this rating will be fixed in the dwelling.
On completion, Contractor to ensure that everything is left clean, tidy, watertight and structurally sound, to employer's entire satisfaction. All materials and workmanship to be in accordance with all relevant British Standards, codes of practice and Building Regulations NI 1990, with amendments.

CAVITY WALLS
375mm concrete block cavity walls, 100mm inner and 100mm outer leafs with 100mm wide cavity using 300mm long Ancon ST1 Type 1 Tie (or equal approved) wall ties at 600mm ctrs. Horizontally and 450mm ctrs. Vertically in offset pattern wall ties spaced 225mm ctrs. "in-line" at all window and door openings and construction joints, etc. Cavity fill shall be 1:3 cement/sand to within 225mm below d.p.c. Level. All cavities shall be closed along gable ends. All concrete blockwork where specified shall be 7kn/mm sq. (or as specified by Structural Engineer). Concrete blocks shall be to BS5628 with class iii mortar (i.e. 1:3 cement/sand) with plaster. Rate of construction shall not exceed 1.5m height per day. Allow for forming openings in blockwork/stonework to receive exterior meter box, extract fans and duct from tumble drier etc. Joining of new blockwork/brickwork to existing by means of forming gables in existing walling. Alternatively by means of specialist galvanised steel profiled fixed to existing wall with adjustable wall built into new brick/block coursing.

FLOORS GROUND
Floors shall be 100mm C35/20 cement/sand screed on 150mm thick Kingspan, on 1200x DPM continuous with DPC in walls on 150mm 1:2:4 concrete sub-floor on radon barrier on 225mm blinded hardcore. Hardcore consisting of clean broken stone shall be mechanically consolidated in 225mm layers to a depth not exceeding 600mm. Laps in DPM shall be not less than 300mm.

FLOOR INSULATION
Solid concrete ground floor - Floor Insulation to be Kingspan 150mm thick, with low emissivity composite foil facings on both sides. Insulation to be installed in strict accordance with Kingspan instructions. Floor construction to achieve a min. "U" value of 0.22 W/m²K

TIMBER
All timberwork to be carried out in accordance with BS 5268
All timber used to be structural class C16 (sc3) or C24 (sc4) as specified on plans and shall be stamped accordingly when delivered to site.
Architecturally exposed timbers shall not be visibly stamped but must be similarly stress graded and supplied with an accompanying stress grade certificate from the suppliers.
All timber to be used must be kiln dried and must be stored under sheltered dry conditions such that moisture content does not exceed 18% at any stage during supply, storage or erection (7% for truss members).
All structural timber to be pressure impregnated steel connector bolts shall be grade 4.6 black bolts (diameter as specified).
Tooth plate connectors shall be 50mm round or square galvanized steel and shall be fully embedded in the timber members by pre-commissioned an rebating where necessary. Principal nailed connections shall be formed using a minimum of 4 no. 3.75mm diameter round wire nails.

INTERNAL PLASTERING
Internal block walls, sand/cement render and skim finish. Ensure that plastering is stopped short of finished floor screed by 25mm. Use aluminium angles to all internal exposed corners. Internal walls to garage where shown, smooth sand/cement wood float finish.

CEILING
Unless otherwise stated provide 12.5mm plasterboard to all ceilings with 6mm bonding and skim finish.
Where the ceiling finish (e.g. Plasterboard) is fixed directly to the underside of rafters in a pitched roof a vapour barrier should be inserted to the warm side of the roof insulation before fixing the finish.

LATERAL RESTRAINT
Where rafters, ceiling joists, floor joists and trusses are parallel to masonry walls they shall be restrained thereto with 30x5mm thick M.S. galvanised straps at not exceeding 1500mm ctrs. The restraint straps shall be restrained to at least 3 No timbers with No 8 screws with solid bridging / packing between timber and wall spiked in position. For concrete floors provide 30x5mm thick M.S. galvanised lateral restraint straps @ 1m 1500 ctrs built tightly into wall (turned down) and screwed and plugged to tops of slabs with 4 no M6 screws

INTERNAL DOORS
Doors to BS 1942(B) supplied in flush beech as client requirements (p.c. sum supply £70.00). Furniture to be regency design in brass. Doors to have clear opening width of 900mm

SPACE HEATING IS PROVIDED BY RADIATORS - NOT UNDERFLOOR HEATING
Dwelling constructed to DCLG published "Accredited Construction details for Part F Internal energy efficient fixed lighting - minimum 75% Three per four light fittings. Where the ceiling finish (e.g. Plasterboard) is fixed directly to the underside of rafters in a pitched roof a vapour barrier should be inserted to the warm side of the roof insulation before fixing the finish.

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RADON
Lay a continuous Visqueen radon proof membrane/barrier (300um) across the whole of the ground floor (including floor, walls and cavity).
All joints in membrane/barrier to be in strict accordance with manufacturers instructions and to have a minimum lap of 150mm and be bonded using radon-proof butyl jointing tape. Where pipes pass through membrane/barrier they are to be sealed using radon propriety pipe seal.
DAMP PROOF COURSE
At the base of walls or pier's (except retaining walls), D.P.C. To outer leaf to be 150 mm above finished ground level. DPC in walls shall be continuous with DPM in floor. Under all copings and chimney caps. Behind and to ends of all calls.
Through all chimneys in lead.
At jambs, and heads of openings and elsewhere where cavity is bridged. All horizontal D.P.C.'s to be stepped outwards so as to discharge moisture externally.
At all abutments of roofs with walls in the form of patent cavity trays stepped to follow roof and discharge moisture externally.
Provide stepped DPC to all lintels over all doors & windows.
FOUNDATION CONCRETE
All concrete works to be carried out in accordance with BS8110 Grade c25 Newton at 28 days. Minimum cement content 330kg/m³ maximum aggregate size 20mm. All structural concrete to be thoroughly vibrated. All concrete work to be carried out in accordance with cp 110:1972.
Mudmat: 75mm C7 Newton. Concrete over reinforcement shall be 75mm unless stated otherwise. All concrete delivered to site to be within 50-5 slump range unless otherwise agreed. No water to be added to concrete after its arrival on site unless by agreement. All concrete curing procedures to be carried out below a steady shade tent. Of 50kg C or 50kg C and falling. Max. Assumed ground bearing pressure of 100kn/m². The builder shall notify the local building control (in normal procedure) of foundations being ready for inspection. Min. Overlap to steel mesh (where indicated) to be 450mm throughout. Day joints between adjacent discontinuous concrete foundation pours shall be reinforced to 1200mm on each side of the joint with S53 steel mesh top and bottom. The concrete is to be given min. 14 days to set before building commences. Building is to be evenly distributed across the foundations during construction.
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TRICKLE VENTILATORS
All habitable rooms, kitchens, bathrooms & sanitary accommodation to have ventilation openings equivalent to not less than 1/20th of floor area
RAPID VENTILATION
All new windows to be fitted with trickle ventilation having an area of 8000mm sq. to all rooms
WINDOW CILLS
Unless otherwise specified to be pre-cast concrete, 100mm face depth with 2 no. 10mm bars reinforcing for handling bedded on DPC.
TRAP DOOR
Provide Glidvale LA1 trap door where indicated on plan. Fully insulated hatch with rigid insulation providing U-value of 0.35 W/m²K. 520 x 680 hatch opening. 555 x 717 structural eq. required.
TIMBER
All structural timber unless otherwise stated on drawings or Structural Engineers details to be Class C16 to B.S 5268 pt.3 1998 and shall be clearly stamped "Dry" or "K.D." (kiln dried) together with stress grading. Trimmers to chimneys etc. to be 75 thick by depth of joist, supported on patent galvanised hangers.
EXTERNAL JOINERY
200 x 19 swish type PVC fascia on timber basking. 200 x 14 soffit in PVC. External doors to have minimum clear opening width of 950mm
INTERNAL JOINERY
150 x 19 square edged beech skirting
100 x 19 square edged beech architrave.
50 x 14 square edged beech door stop.
150 x 25 beech window board.
Provide 750 x 750 trapdoor to roof void
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EXTERNAL JOINERY
200 x 19 swish type PVC fascia on timber basking. 200 x 14 soffit in PVC. External doors to have minimum clear opening width of 950mm
INTERNAL JOINERY
150 x 19 square edged beech skirting
100 x 19 square edged beech architrave.
50 x 14 square edged beech door stop.
150 x 25 beech window board.
Provide 750 x 750 trapdoor to roof void
INTERNAL DOORS
Doors to BS 1942(B) supplied in flush beech as client requirements (p.c. sum supply £70.00). Furniture to be regency design in brass. Doors to have clear opening width of 900mm
SPACE HEATING IS PROVIDED BY RADIATORS - NOT UNDERFLOOR HEATING
Dwelling constructed to DCLG published "Accredited Construction details for Part F Internal energy efficient fixed lighting - minimum 75% Three per four light fittings. Where the ceiling finish (e.g. Plasterboard) is fixed directly to the underside of rafters in a pitched roof a vapour barrier should be inserted to the warm side of the roof insulation before fixing the finish.

RADON
Lay a continuous Visqueen radon proof membrane/barrier (300um) across the whole of the ground floor (including floor, walls and cavity).
All joints in membrane/barrier to be in strict accordance with manufacturers instructions and to have a minimum lap of 150mm and be bonded using radon-proof butyl jointing tape. Where pipes pass through membrane/barrier they are to be sealed using radon propriety pipe seal.
DAMP PROOF COURSE
At the base of walls or pier's (except retaining walls), D.P.C. To outer leaf to be 150 mm above finished ground level. DPC in walls shall be continuous with DPM in floor. Under all copings and chimney caps. Behind and to ends of all calls.
Through all chimneys in lead.
At jambs, and heads of openings and elsewhere where cavity is bridged. All horizontal D.P.C.'s to be stepped outwards so as to discharge moisture externally.
At all abutments of roofs with walls in the form of patent cavity trays stepped to follow roof and discharge moisture externally.
Provide stepped DPC to all lintels over all doors & windows.
FOUNDATION CONCRETE
All concrete works to be carried out in accordance with BS8110 Grade c25 Newton at 28 days. Minimum cement content 330kg/m³ maximum aggregate size 20mm. All structural concrete to be thoroughly vibrated. All concrete work to be carried out in accordance with cp 110:1972.
Mudmat: 75mm C7 Newton. Concrete over reinforcement shall be 75mm unless stated otherwise. All concrete delivered to site to be within 50-5 slump range unless otherwise agreed. No water to be added to concrete after its arrival on site unless by agreement. All concrete curing procedures to be carried out below a steady shade tent. Of 50kg C or 50kg C and falling. Max. Assumed ground bearing pressure of 100kn/m². The builder shall notify the local building control (in normal procedure) of foundations being ready for inspection. Min. Overlap to steel mesh (where indicated) to be 450mm throughout. Day joints between adjacent discontinuous concrete foundation pours shall be reinforced to 1200mm on each side of the joint with S53 steel mesh top and bottom. The concrete is to be given min. 14 days to set before building commences. Building is to be evenly distributed across the foundations during construction.
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Provide stepped DPC to all lintels over all doors & windows.
TRICKLE VENTILATORS
All habitable rooms, kitchens, bathrooms & sanitary accommodation to have ventilation openings equivalent to not less than 1/20th of floor area
RAPID VENTILATION
All new windows to be fitted with trickle ventilation having an area of 8000mm sq. to all rooms
WINDOW CILLS
Unless otherwise specified to be pre-cast concrete, 100mm face depth with 2 no. 10mm bars reinforcing for handling bedded on DPC.
TRAP DOOR
Provide Glidvale LA1 trap door where indicated on plan. Fully insulated hatch with rigid insulation providing U-value of 0.35 W/m²K. 520 x 680 hatch opening. 555 x 717 structural eq. required.
TIMBER
All structural timber unless otherwise stated on drawings or Structural Engineers details to be Class C16 to B.S 5268 pt.3 1998 and shall be clearly stamped "Dry" or "K.D." (kiln dried) together with stress grading. Trimmers to chimneys etc. to be 75 thick by depth of joist, supported on patent galvanised hangers.
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