

STUD ASHLAR/DWARF WALL
 To achieve minimum U Value of 0.28 W/m²K
 Construct stud wall using 100mm x 50mm head and sole plates and vertical studs (with noggins) at 400mm centres or to structural engineer's details and calculations. Insulation between and over studs; 70mm Ecotherm Eco-Versal between studs and 25mm over. Provide 12.5mm plasterboard over vcl. Finish with a plaster skim.
 Finish with 3mm skim coat of finishing plaster. All junctions to have water tight construction, seal all perimeter joints with tape internally and with silicon sealant externally.

DORMER CONSTRUCTION WALLS (TILE FINISH)
 To achieve minimum U Value of 0.18 W/m²K
 Structure to engineer's details and calculations. Tiles hung vertically on 25 x 38mm preservative treated battens (vertical counter battens to be provided to ensure vented and drained cavity if required) fixed to breathable membrane (having a vapour resistance of not more than 0.6 MNs/g) and 12mm thick W.B.P external quality plywood sheathing (or other approved). Ply fixed to treated timber frame studs constructed using: 100mm x 50mm head and sole plates and vertical studs (with noggins) at 400mm centres or to structural engineer's details and calculations. Insulation between and over studs: 70mm Ecotherm Eco-Versal between plus VCL and 72.5mm Ecotherm insulated plasterboard over. Finish with 3mm skim coat of finishing plaster.
 All junctions to have water tight construction, seal all perimeter joints with tape internally and with silicon sealant externally. Dormer walls built off existing masonry walls to have galvanised mild steel straps placed at 900 centres. Dormer cheeks within 1m of the boundary to be lined externally with 12.5mm Supalux and 12.5mm Gyproc FireLine board internally to achieve 1/2 hour fire resistance from both sides.

DORMER FLAT ROOF (COLD VENTED)
 (imposed load max 1.0 kN/m² - dead load max 0.75 kN/m²)
 To achieve U value of 0.15 W/m²K
 To Structural Engineer's details.
 Glass reinforced plastic (GRP) system with aa fire rating and a current BBA or other approved accreditation be laid in compliance with manufacturers details by flat roofing specialist, on 18mm exterior grade plywood, laid on firings to give a 1:40 fall on 47 x 170mm grade C24 timber joists at 300 ctrs (see engineer's details for sizes). Cross-ventilation to be provided on opposing sides by a proprietary eaves ventilation strip to give 25mm continuous ventilation, with fly proof screen. Flat roof insulation is to be continuous with the wall insulation but stopped back to allow a continuous 50mm air gap above the insulation for ventilation. Insulation to be 120mm Celotex XR4000 between joists and 50mm under joists. Ceilings to be 12.5mm plasterboard over vapour barrier with skim plaster finish. Provide cavity tray where pitched roof meets existing wall. Provide restraint to flat roof by fixing using of 30 x 5 x 1000mm ms galvanised lateral restraint straps at maximum 2000mm centres fixed to 100 x 50mm wall plates and anchored to wall.

RAINWATER DRAINAGE
 New rainwater goods to be new 110mm upvc half round gutters taken to and connected into 68mm dia upvc downpipes

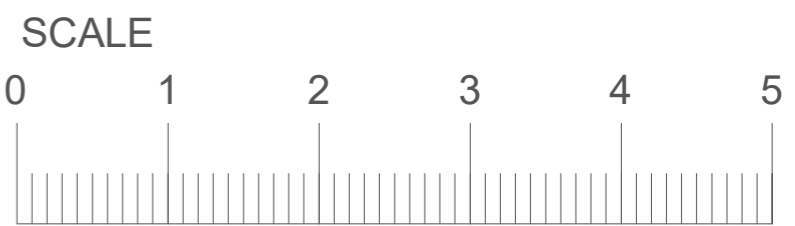
ABOVE GROUND DRAINAGE
 All new above ground drainage and plumbing to comply with BS EN 12056-2 for sanitary pipework. All drainage to be in accordance with Part H of the Building Regulations. Wastes to have 75mm deep anti vac bottle traps and rodding eyes to be provided at changes of direction.

DORMER CALCULATION
 $5.115 \times 3.400 \times 2.400 / 2 = 20.86$
HIP TO GABLE
 (USED IN CONSTRUCTION OF NUMBER 176A)
 $3.724 \times 2.888 \times 7.178 / 6 = 12.86$
Total 33.72

Size of wastes pipes and max length of branch connections (if max length is exceeded then anti vacuum traps to be used)
 Wash basin - 1.7m for 32mm pipe 3m for 40mm pipe
 Bath/shower - 3m for 40mm pipe 4m for 50mm pipe
 W/c - 6m for 100mm pipe for single WC
 All branch pipes to connect to 110mm soil and vent pipe terminating min 900mm above any openings within 3m. Or to 110mm upvc soil pipe with accessible internal air admittance valve complying with BS EN 12380, placed at a height so that the outlet is above the trap of the highest fitting.
 Waste pipes not to connect on to SVP within 200mm of the WC connection.
 Supply hot and cold water to all fittings as appropriate.

SOIL AND VENT PIPE
 Svp to be extended up in 110mm dia UPVC and to terminate min 900mm above any openings within 3m. Provide a long radius bend at foot of SVP.

AUTOMATIC AIR VALVE
 Ground floor fittings from WC to be connected to new 110mm UPVC soil pipe with accessible internal air admittance valve complying with BS EN 12380, placed at a height so that the outlet is above the trap of the highest fitting and connected to underground quality drainage encased with pea gravel to a depth of 150mm.




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CDM Regulations 2007. Party Wall Act 1996, Clients and contractors are reminded that the project is within the scope of these regulations MBL Associates Ltd engaged as designers will not accept any liability for failure of these parties to carryout their duties as required by these statutes

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DESCRIPTION SECTIONS	
Scale: 1:50 @A3	Date: 18/01/2024
Drawing No	HA176/006