

CONSTRUCTION NOTES

GENERAL

All work to be carried out in full accordance with current Building Regulations and 'robust details' as applicable. All on site operations to be carried out in full accordance with current Health & Safety Regulations and CDM Regulations 1994 as applicable.

SITE CLEARANCE

Site to be cleared of all vegetable matter, turf, concrete etc to a minimum depth of 200mm below existing ground level.

FOUNDATIONS AND FOOTINGS

New ground floor external walls to be taken down to concrete strip or trench fill foundations 600 wide Internal walls to be taken down to strip foundations 440 x 200 thick. Depths to suit site conditions and to Local Authority approval prior to pouring concrete.

Foundations to be grade C.20P to BS.5328:1981 (min. mix 1:3:6) concrete. Build up external walls in two skins of 7N solid dense concrete blocks using mortar mix 1:3 up to one brick depth below finished ground level. Fill cavity with sand cement mix.

DAMP PROOF COURSE

To be Andersons XTRA-LOAD ELITE or equal approved polymeric DPC. To be installed to inner and outer skins of cavity walls and to all internal blockwork walls, to be located minimum 150mm above finished ground levels to avoid the raise of water through absorption. All joints to be lapped min. 150mm (basic Radon measure).

VERTICAL DPC; at abutments of external cavity wall to solid 215 wall.

Cavity Trays And Weepholes

Cavity trays and weepholes to be provided above structural openings and base of cavity to provide basic radon protection.

Allow for suitable cavity tray and lead flashing to roof abutment as required

Existing DPM to be exposed and suitably extended using lapped and sealed joints to make connection with the new external wall Cavity Tray

INTERNAL BLOCK WALLS

to be single skin lightweight concrete block dry lined with 12.5 plasterboard tapered edge plasterboard, scrim joints and skim with neat Thistle plaster.

EXTERNAL WALLS

Construction to comprise: 103 brick to match existing, 100mm cavity filled with 100mm Drytherm32 100mm Optilyte blockwork, inner lining to be 12.5mm plasterboard on dabs and skim finish. achieving U-val 0.23 W/m²K Both leaves of wall construction to be tied together using stainless steel vertical twist ties at 900mm horizontal, 450mm vertical centres and no greater than 300mm at reveals. Cavities to be closed at reveals with proprietary fire proof closer such as Thermabate. Brickwork and blockwork attached to existing with Simpson Strong tie masonry connectors or similar ties

WALL TIES

Two and a half wall ties per square metre of masonry with a maximum horizontal spacing is 900mm and a maximum vertical spacing is 450mm. Each wall tie to be set a minimum of 50mm into both masonry leaves. Cavity wall ties to be stainless steel and 225mm in length. Three courses of blue engineering bricks in 1:3 mortar to all 215mm external walls.

BONDING OF NEW AND EXISTING WALLS

New walls to be secured to existing walls by use of stainless steel Firfix or Crocodile (or S.A.). Fixings in accordance with manufacturers instructions complete with weather strip and mastic pointing. 100mm Dpc behind all wall end ties.

CAVITY

To be cleared of all mortar droppings and closed at all openings at top of wall cavity closers . Lean mix concrete cavity fill to 225mm min. below DPC.

MORTAR

Shall be at least in strength 1:1:6 Portland cement/lime/fine aggregate mortar measured by volume of dry materials up to the proportions given in BS.5628. mix to be 1:1/2:4 below dpc.

STUDWALLS

1No layers of 12.5mm Gyproc wall board ten (with a minimum mass per unit area of 10Kg/m2) fixed each side of studs, at 150mm crs, with 40mm non-ferrous driwall screws to 100x50 sw treated studs at 450mm crs for 900mm boards + 600mm crs for 1200mm boards. With a sound absorbent layer of Isowool Acoustic partition roll fully filling the wall cavity. All joints to be well sealed. 100x50mm noggins to be fixed to support ends of boards and 900mm crs vertically between studs.

Stud walls to be skimmed with 5mm thistle board finish. Gyproc moisture resistant board to be used in bathroom areas.

Fill all gaps around internal walls to avoid air paths between rooms. Where partitions occur at first floor level and run parallel with joists, additional joist is to be inserted and the two bolted together.

Accoustic sealant and intumescent/ accoustic sealant on the 30min walls and ceiling around the garage.

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