

Chimneys:
Existing face brickwork and chimney pots to be cleaned using water based system only; no chemical clean permitted. Brickwork to be repointed; any damaged brickwork to be repaired where possible or replaced with matching brickwork. Damaged chimney pots to be replaced to match existing.

Upgrading to existing Pitched and Flat Roof (U Value 0.18W/m²K):
All roof timbers to be inspected for suitability. Existing roof felt to be inspected for suitability and if required to be replaced then existing tiles to be carefully removed and stored securely for reinstallation at a later date. Remove old battens and install a new BSA approved draped breather membrane over 70mm Celotex GA3070 rigid insulation between rafters (or similar or equal approved) with 50mm Celotex GA3050 rigid insulation below rafters (or similar or equal approved) with taped joints acting as a VPL. Depth of rafters TBC. Install new 50mm tanalised battens and re-install original roof tiles. NOTE: All works to be in strict accordance with manufacturer's written recommendations. Same insulation treatment to be given to the flat roof portion of the existing main roof.

Side Extension - First Floor:
Allow for 20mm Floor Finish zone on 17mm DECKON MDF 17T composite acoustic overlay board on 22m T&G Chipboard Flooring screw fixed to 150x50mm Timber Joists at 300mm C/Cs (TBC by Structural Engineer) with 100mm Isover APR 1200 acoustic insulation between and 1No. Layer of Gyproc Fireline Plasterboard and 1No. Layer of Gyproc SoundBloc Plasterboard. Joints to be staggered. Refer to M&E Specification for underfloor heating requirements. Service zone to suit M&E requirements provided by Casuline MF ceiling system on acoustic hangers with 25mm Isover APR 1200 acoustic insulation laid over 1No. Layer 15mm Gyproc SoundBloc Plasterboard (to kitchen/side extension) or 1No. Layer 15mm Gyproc Moisture Resistant Plasterboard. NOTE: All works to be in strict accordance with manufacturer's written recommendations. Plasterboard to be taped and skimmed.

Side Extension Flat Roof 0.7° fall (U-value = 0.18W/m²K):
Prodtek EPDM Rubber Roof covering (with 25 year guarantee) lapped minimum 150mm into Parapets/upstands on 25mm Kingspan ThermaRoof TR27 LPC/PM on Kingspan Optim-R Roofing System with Protection Layer on Vapour Control Layer on 18mm WBP Plywood with staggered joints screwed and glued to 150x100mm timber joists @ 300mm C/Cs as per Structural Engineer's specification with 1No. Layer 15mm Gyproc Wallboard Plasterboard. Plasterboard to be taped and skimmed. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

External Wall (U Value 0.25W/m²K):
1No. Layer 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs, Plasterboard to be taped and skimmed; 100mm Blockwork (Blockwork Thermal Conductivity of 0.15W/m²K), min. 100mm Cavity with 100mm Earthwool DrTherm Cavity Slab 32 Ultimate (thermal conductivity of 0.032 W/mK), 102.5mm facing brickwork Old Victorian Pressed Medium Dark by Furness to match existing. Block and Brick to be tied with Ancon Wall ties (or similar or equal approved) at maximum 750mm spacing horizontally and 450mm spacing vertically to Structural Engineer's design and specification. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

Partition between Rooms (Timber Studs):
2No. Layers 12.5mm Gyproc Wallboard Plasterboard fixed to room side of 2No. rows of 89x44mm timber studs at 300mm C/Cs (TBC by Structural Engineer) with 2No. layers of 50mm Isover APR 1200 acoustic insulation between studs. Plasterboard to be taped and skimmed. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

External Wall (U Value 0.25W/m²K):
1No. Layer 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs, Plasterboard to be taped and skimmed; 100mm Blockwork (Blockwork Thermal Conductivity of 0.15W/m²K), min. 100mm Cavity with 100mm Earthwool DrTherm Cavity Slab 32 Ultimate (thermal conductivity of 0.032 W/mK), 102.5mm facing brickwork Old Victorian Pressed Medium Dark by Furness to match existing. Block and Brick to be tied with Ancon Wall ties (or similar or equal approved) at maximum 750mm spacing horizontally and 450mm spacing vertically to Structural Engineer's design and specification. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

Ground Floor to Extensions (U Value 0.22W/m²K):
Finished floor build up varies, refer to 5000 Series details for information. 65mm SR1 Screed on Vapour Control Layer on 80mm Celotex GA3080 insulation (or similar or equal approved) on Visqueen High Performance DPM (or similar or equal approved) on 150mm Beam and Block floor to Structural Engineer's details and specification. Void below to be ventilated. Refer to M&E Specification for underfloor heating requirements. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

Side Extension Flat Roof 0.7° fall (U-value = 0.18W/m²K):
Prodtek EPDM Rubber Roof covering (with 25 year guarantee) lapped minimum 150mm into Parapets/upstands on 25mm Kingspan ThermaRoof TR27 LPC/PM on Kingspan Optim-R Roofing System with Protection Layer on Vapour Control Layer on 18mm WBP Plywood with staggered joints screwed and glued to 150x100mm timber joists @ 300mm C/Cs as per Structural Engineer's specification with 1No. Layer 15mm Gyproc Wallboard Plasterboard to Dressing Room or 1No. Layer 15mm Gyproc Moisture Resistant Plasterboard to Master Bathroom. Plasterboard to be taped and skimmed. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

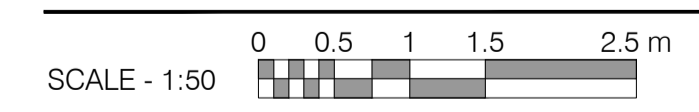
Partition between Room and Bathroom (Timber Studs):
2No. Layers 12.5mm Gyproc Wallboard Plasterboard fixed to room side of 2No. rows of 89x44mm timber studs at 300mm C/Cs (TBC by Structural Engineer) with 2No. layers of 50mm Isover APR 1200 acoustic insulation between studs. 1No. Gyproc Moisture Resistant Board and 1No. Layer Tile Backer Board to bathroom side to take 12mm tile finish and 8mm adhesive bed (Note: 12mm ply patress to be used where required to replace moisture resistant board for fixing sanitaryware.) Walls adjacent to shower areas and underside of shower trays to have Bal waterproofing system applied. Plasterboard to be taped and skimmed. NOTE: Where wall forms partition within bathroom, wall make-up to be as per specification of bathroom side for both sides of stud. All works including fixing through tanking membrane to be in strict accordance with manufacturer's written recommendations.

External Wall (U Value 0.25W/m²K):
1No. Layer 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs, Plasterboard to be taped and skimmed; 100mm Blockwork (Blockwork Thermal Conductivity of 0.15W/m²K), min. 100mm Cavity with 100mm Earthwool DrTherm Cavity Slab 32 Ultimate (thermal conductivity of 0.032 W/mK), 102.5mm facing brickwork Old Victorian Pressed Medium Dark by Furness to match existing. Block and Brick to be tied with Ancon Wall ties (or similar or equal approved) at maximum 750mm spacing horizontally and 450mm spacing vertically to Structural Engineer's design and specification. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

Garage Extension Flat Roof 0.7° fall (U-value = 0.18W/m²K):
Prodtek EPDM Rubber Roof covering (with 25 year guarantee) lapped minimum 150mm into Parapets/upstands on 25mm Kingspan ThermaRoof TR27 LPC/PM on Kingspan Optim-R Roofing System with Protection Layer on Vapour Control Layer on 18mm WBP Plywood with staggered joints screwed and glued to 150x100mm timber joists @ 300mm C/Cs as per Structural Engineer's specification with 1No. Layer 15mm Gyproc Wallboard Plasterboard. Plasterboard to be taped and skimmed. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

Partition (2 Rows of Blockwork):
1No. Layer 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs either side of 2No. rows of 100mm blockwork as per Structural Engineer's specification with 100mm cavity between fully filled with 100mm Earthwool DrTherm Cavity Slab 32 Ultimate. Plasterboard to be taped and skimmed. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

Ground Floor to Extensions (U Value 0.22W/m²K):
Finished floor build up varies, refer to 5000 Series details for information. 65mm SR1 Screed on Vapour Control Layer on 80mm Celotex GA3080 insulation (or similar or equal approved) on Visqueen High Performance DPM (or similar or equal approved) on 200mm Reinforced Concrete Slab to Structural Engineers details and specification. Refer to M&E Specification for underfloor heating requirements. NOTE: All works to be in strict accordance with manufacturer's written recommendations.



Rev: Comments: By: Date:

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