

**New Dormer Cheeks and Roof (U Value 0.18W/m<sup>2</sup>K):**  
Side hung roof tiles to match existing roof on 25mm tanalised battens on 25mm tanalised counter battens with Kingspan Nivert breathable membrane on 9mm OSB sheathing board fixed to 100x50mm studs (TBC by SE) with 100mm Kingspan Kooltherm K107 Pitched Roof Board between timber studs with 42.5mm Kingspan Kooltherm K118 Insulated Plasterboard with taped joints acting as a VPL. NOTE: All works to be in strict accordance with manufacturer's written recommendations. Same insulation treatment to be given to the dormer roof.

**Partition between Room and Bathroom (Timber Studs):**  
2No. Layers 12.5mm Gyproc Wallboard Plasterboard fixed to room side of 89x44mm timber studs at 300mm C/Cs (TBC by Structural Engineer) with 50mm Isover APR 1200 acoustic insulation between studs. 1No. Gyproc Moisture Resistant Board and 1No. Layer Tie Backer Board to bathroom side to take 12mm tile finish 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 Bat 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.

**Upgrade to Existing First Floor:**  
Carefully remove and safely retain existing floorboards and install Gyproframe SIF Floor Channel and left strip to top of existing joists to take 19mm Gyproc Plank. Install chicken wire over and between joists to take 100mm Isover Spacesaver Ready-Cut insulation. Refer to M&E Specification for underfloor heating requirements. For Suspended ceiling treatment see below. 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.

**Partition (Blockwork):**  
2No. Layers 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs either side of 100mm blockwork as per Structural Engineer's specification. D12 shadow gap propriety channel by Qic Trims Ltd (or similar approved or equal approved) to be used throughout. Plasterboard to be taped and skimmed. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

**Dry lining to Basement External Wall (U Value 0.28W/m<sup>2</sup>K):**  
Delta MS500 wall tanking membrane or similar or equal approved with 60mm Celotex GA3060 insulation with 30mm air gap in front with independent 100mm blockwork. Blockwork density and head restraint/windpost requirements to Structural Engineer's detailed design and specification. Finishes vary. Allow for 50mm tile zone to Swimming Pool, Wet Room, Jet Shower, Sauna, WC and Shower/Steam Room. Allow for 2No. Layers 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs with D12 shadow gap propriety channel by Qic Trims Ltd (or similar approved or equal approved) to Changing Room, Poolside Gallery, Treatment Room, Gym/Media Room and Stair Area. Allow for 15mm Render pargo coat to walls within rooms housing Plant equipment. Plasterboard to be taped and skimmed. Waterproof/drainage details TBC by Specialist Subcontractor. 30 years warranty certificate to be provided upon completion. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

**Basement floor to concrete slab (U Value 0.22W/m<sup>2</sup>K):**  
Finished floor build up varies, refer to 5000 Series details for information. 65mm SR1 Screed on Vapour Control Layer on 60mm Celotex GA3060 insulation (or similar or equal approved) on 20mm Delta MS20 tanking membrane (or similar or equal approved) on 300mm reinforced concrete slab to Structural Engineers details and specification with perimeter drainage channel. Tanking works to be carried out by approved specialist. 30 years warranty certificate to be provided upon completion. Refer to M&E Specification for underfloor heating requirements. NOTE: All works to be in strict accordance with manufacturer's written recommendations.

**Upgrading to existing Pitched and Flat Roof (U Value 0.18W/m<sup>2</sup>K):**  
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 BBA 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.

**Suspended ceiling:**  
Existing Lathe and Plaster ceiling to be kept in-situ. Service zone to suit M&E requirements provided by Casoline MF ceiling system on acoustic hangers with 25mm Isover APR 1200 acoustic insulation laid over 1No. Layer 15mm Gyproc SoundBloc Plasterboard (to kitchen/isle 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/m<sup>2</sup>K):**  
Prodex EPDM Rubber Roof covering (with 25 year guarantee) lapped minimum 150mm into Parapets/upstands on 25mm Kingspan ThermaRoof TR27 LPCFM on Kingspan Cym-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.

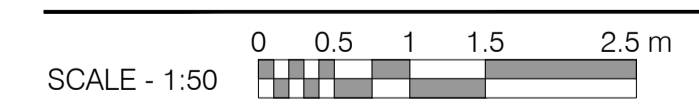
**Side Extension - First Floor:**  
Allow for 20mm Floor Finish zone on 17mm DECKfon MDF 17T composite acoustic overlay board on 22m T&G Chipboard Flooring screw fixed to 150x50mm Timber Joists at 300mm C/Cs (TBC by Structural Engineer) with 100mm Isover APR 1200 acoustic insulation between and 1No. Layer of Gyproc Frieze 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 Casoline MF ceiling system on acoustic hangers with 25mm Isover APR 1200 acoustic insulation laid over 1No. Layer 15mm Gyproc SoundBloc Plasterboard (to kitchen/isle 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.

**Garage Extension Flat Roof 0.7' fall (U-value = 0.18W/m<sup>2</sup>K):**  
Prodex EPDM Rubber Roof covering (with 25 year guarantee) lapped minimum 150mm into Parapets/upstands on 120mm Celotex Crown-Bond 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.

**Ground Floor to Extensions (U Value 0.22W/m<sup>2</sup>K):**  
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 Engineers 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.

**External Wall (U Value 0.25W/m<sup>2</sup>K):**  
1No. Layer 12.5mm Gyproc Wallboard Plasterboard on 10mm dabs, Plasterboard to be taped and skimmed; 100mm Blockwork (Blockwork Thermal Conductivity of 0.15W/mK), min. 100mm Cavity with 100mm Earthwool D-Therm 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.

**Suspended Ceiling - Basement:**  
Service zone to suit M&E requirements (minimum 400mm void) provided by Casoline MF ceiling system on acoustic hangers with 100mm Isover APR 1200 acoustic insulation laid over 1No. Layer 19mm Gyproc Plank Plasterboard and 1No. Layer 15mm Gyproc SoundBloc Plasterboard. NOTE: All works to be in strict accordance with manufacturer's written recommendations. Plasterboard to be taped and skimmed.



Rev:	Comments:	By:	Date:
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**PLANNING**

Client: -

Project Title: 24 Heath Drive, London, NW3 7SB

Drawing Title: Proposed Section BB

Scale: 1:50@A1

Date: JAN 18

Drawn: ST

Checked: HV

Project No.: 508-16

Drawing No.: 4001

Revision: -

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