

- NOTES:
1. Do not scale this drawing. Use figured dimensions only, except for Planning purposes.
 2. All dimensions must be checked on site by the contractor prior to commencement of work.
 3. All construction details are indicative and are to be checked and confirmed on site and any divergences are to be agreed with the Contract Administrator.



5 NEW ROOF CONSTRUCTION.

FLAT ROOF

Form new warm roof construction of three layer built up 3G roof felt roof covering partially bonded on 126mm thick Kingspan Thermaclad® TR31 insulation, incorporating decking and vapour control layer, with 25mm Kingspan Kooltherm® K7 Pitched Roof Board fixed between firings. 38mm x 145mm C16 grade joists @ 450mm centres, laid to minimum 1:50 falls to roof gutter and down pipes. Where flat roof abuts existing cavity wall to main house install 'Cavity Trays' type E cavity tray min 150 above roof abutment and type W cavity weep ventilators @ 900 C/m. installed to all manufacturers requirements with code 4 lead flashings and soakers as required. Overall roof construction to achieve a U value of 0.20 W/m²K.

6 NEW EXTERNAL CAVITY WALL

100mm Thermacore H7 block work with 11mm Gypsum Hard wall base coat and 2mm skim coat finish to internal face. 100mm partial fill insulated cavity. Insulation to be 50mm Kingspan Thermaclad TW50 Zero ODP Insulation with stainless steel twist wall ties @ 750 horizontally and 450 vertically with insulation retaining discs. 50mm clear cavity. 100mm Thermacore block all with Class 1 mortar. Block Work to be keyed to receive 25mm two coat K rend Silicone FT or minimum two coat 25mm (th) cement line and sand render mixed 1:1/2 : 4 to 4 1/2. Render to match existing render finish. Stainless steel corner beads, edge beads and stops as required. Finish to match existing recommendations. Overall wall construction to achieve a U value of 0.28 W/m²K. New external cavity wall at abutments with existing walls to be tied in with stainless steel wall starter bars and ties. Expansion joint between new and existing render to be filled with coloured mastic sealant, colour to approval to match existing render colour. Existing wall to be mechanically cut through to cavity at abutment with new cavity, install cavity trays type B vertical DPC cavity tray in cut line all to manufacturers recommendations.

7 NEW GROUND FLOOR CONSTRUCTION

New floor level to line through with existing floor level. 75mm sand cement screed on 500 gauge vapour control layer on 80mm Kingspan Kooltherm K3 With a Thermal conductivity (λ) of 0.018W/m.K floor insulation boards with 20mm Kingspan Kooltherm K3 vertical insulation to floor perimeter, on 1200 gauge dpm with all joints overlapped and sealed, on 150mm A142 mesh reinforced concrete slab on min 200mm DOT 1 hardcore. Overall construction to achieve a U value of 0.22W/m²K. P/A = 5.28m / 6.8m² = 0.77

8 Detail at abutment between new floor and existing constructions to be confirmed on site. Ensure DPM is continuous across junction.

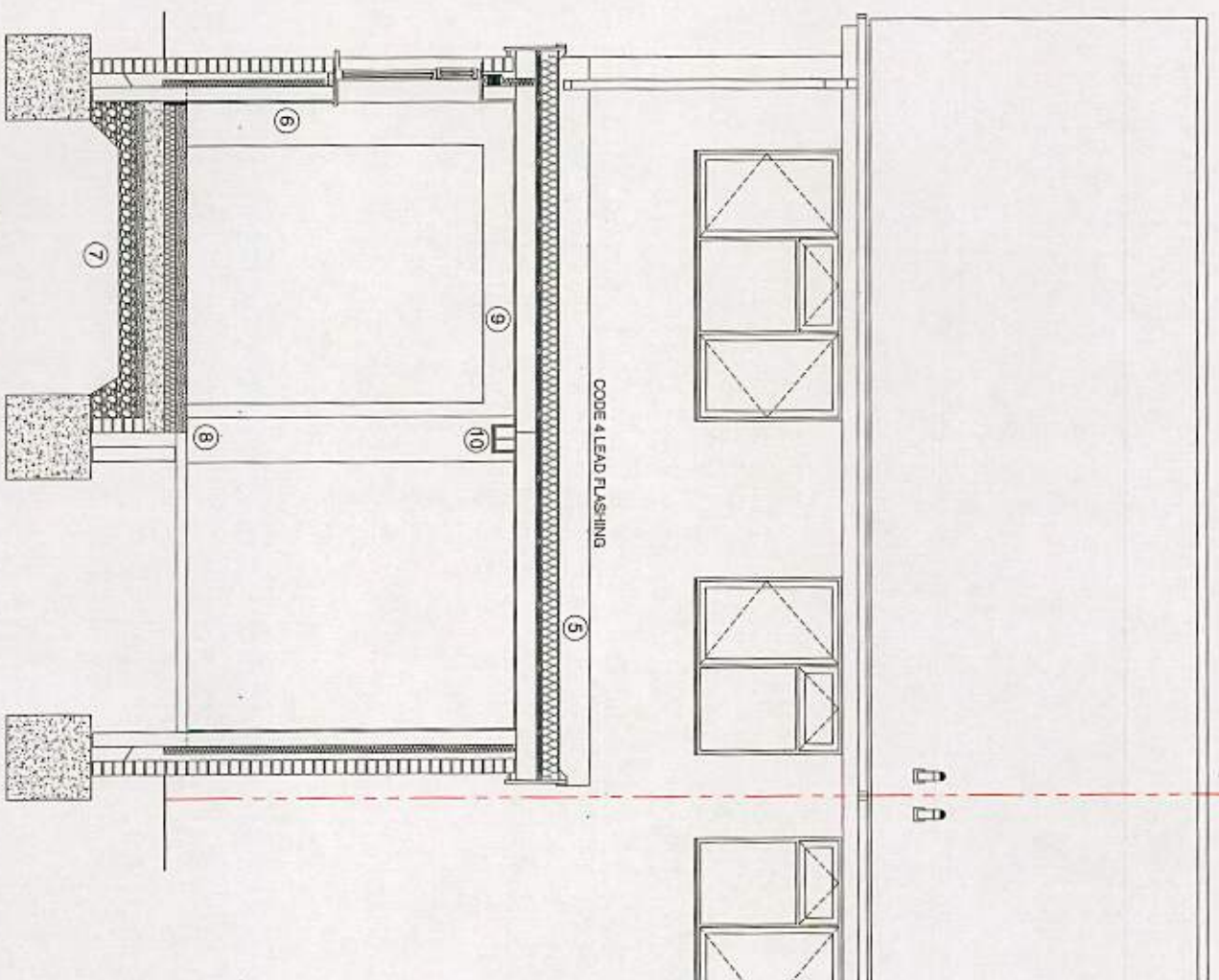
9 PLASTER BOARD CEILING

Gyproc 1 layer Wallboard Duplex (includes vapour control layer) and 1 layer of 12.5mm gyproc moisture resistant Fireline board. All joints between boards to be staggered. Ceilings to be finished with 3mm skim coat finishing plaster painted, all installed to all manufacturers requirements and good practices.

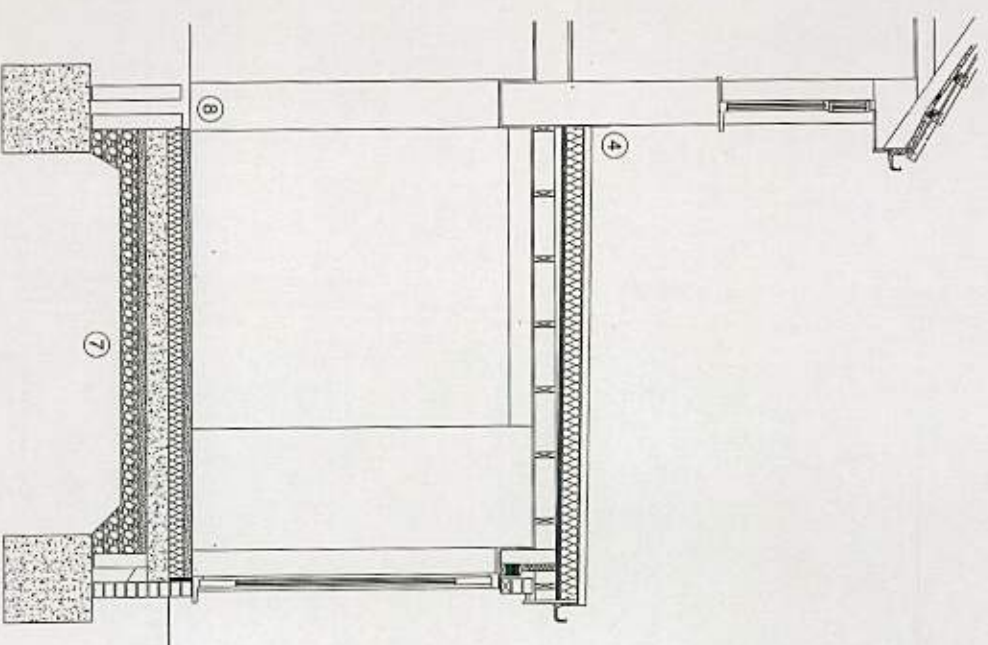
10 NEW STEEL BEAM

Structural steel beam to be 152X152X25 UB galvanized and primed prior to delivery on site ON 100X150X 150 deep concrete pad stones. All to structural engineers calculations and details and to LA approval. Beams to are to be encased with 2 layers 12.5mm Gypsum Fireline board with all joint staggered and all abutments with walls and ceiling sealed with a proprietary Intumescent sealant to achieve 60 minutes fire resistance.

SECTION C-C



SECTION B-B



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SECTIONS B-B & C-C
AS PROPOSED



Scale 1:50 @ A3
Date 03-11-12
Drawn By ACB
Checked KEH

Drawing Number 4819 / 07

Proposed Rear Extension 2 Pulborough Way Flansham Felpham PO22 6QR