PITCHED ROOF

Roof to achieve a minimum U-value of 0.13 W/m²K.

Single ply membrane installed strictly in accordance with manufacturer's instructions and specification. Outline specification: Icopal Monarplan PVC adhered warm roof:

Roof structure to comprise truss and attic truss to specialist design.

18mm wpb plywood or OSB3 deck over truss Icopal S.A. Primer

Vapour Control Layer ref TorchSafe T.A. VCL - Sanded, adhered to primed deck

175mm Thermazone Roofboard insulation adhered to VCL Monarplan GF Fleeceback membrane fully bonded to Roofboard

Monarplan Coated Metal drips, trims etc mechanically fastened and joined as manufacturer's details.

Monarplan Standing Seam Profile hot welded to membrane at nom 600mm centres 12.5mm plasterboard ceiling with 3mm skim finish

Trusses to be strapped over top of walls using proprietary Expamet or similar straps at maximum 2m centres subject to truss specialist details.

EXTERNAL WALLS

New External Walls - to be cavity construction to achieve a min. U-value of 0.18 W/m²K and should meet the requirements Approved Document C5 of the Building Regulations. Outer skin - 100mm facing brick or 100mm dense concrete block (1.13λ)faced with 10mm silicone polymer render, cavity - 125mm wide, containing 75mm thick Kingspan K108 partial fill cavity board insulation, inner

skin - 100mm medium density concrete block (0.51λ) . Walls to be finished externally with through colour render on external blockwork leaf or facing brick outer leaf (refer to Elevation drawings) and internally with dot and dab 12.5mm plasterbd with 3mm gypsum plaster skim finish. Inner and outer skins to be tied together with stainless steel RT2 type ties, with insulating retaining clips positioned at 750mm centres horizontally and 450mm centres vertically in staggered pattern and

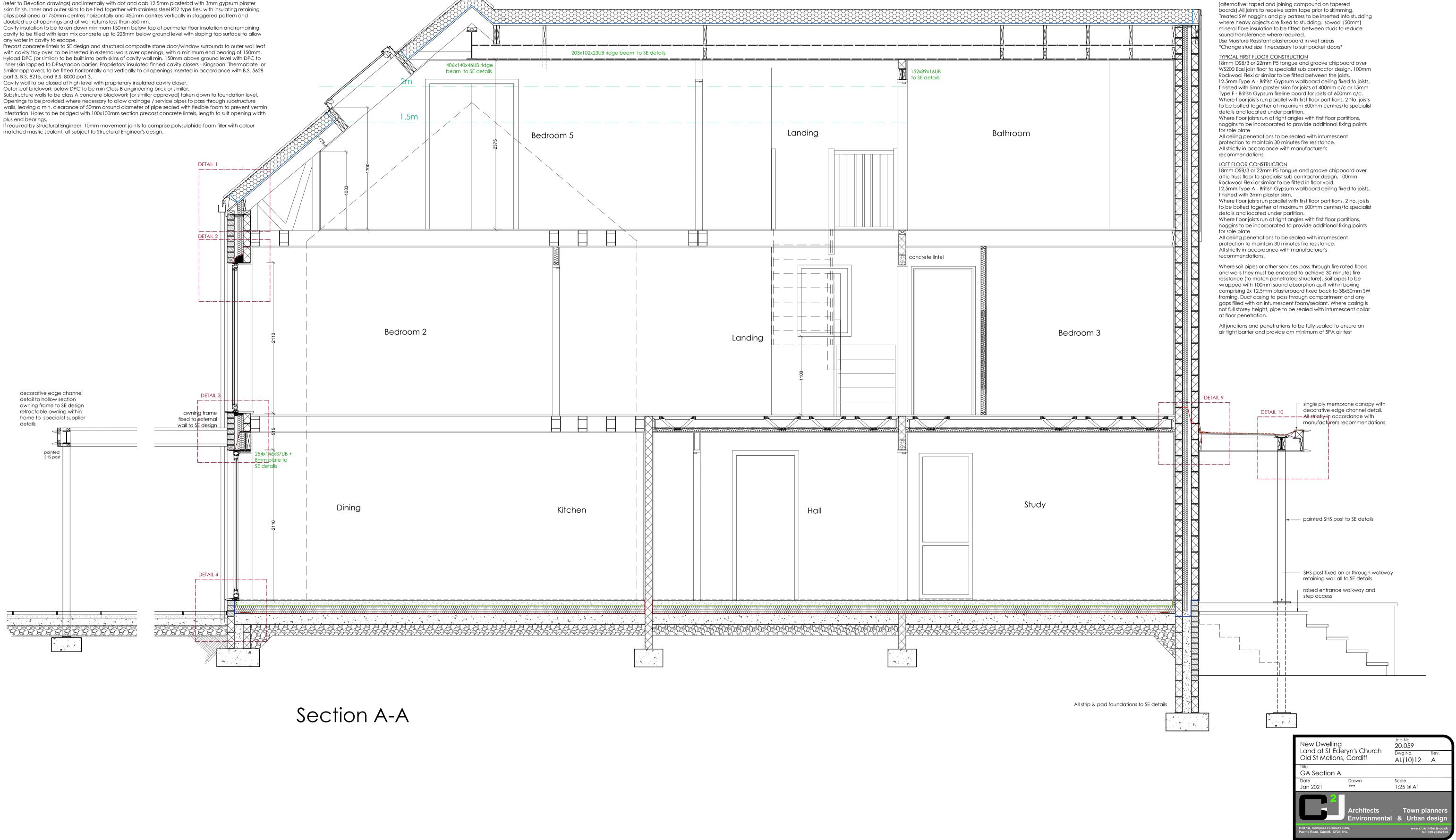
Cavity insulation to be taken down minimum 150mm below top of perimeter floor insulation and remaining cavity to be filled with lean mix concrete up to 225mm below ground level with sloping top surface to allow

Precast concrete lintels to SE design and structural composite stone door/window surrounds to outer wall leaf with cavity tray over to be inserted in external walls over openings, with a minimum end bearing of 150mm. Hyload DPC (or similar) to be built into both skins of cavity wall min. 150mm above ground level with DPC to inner skin lapped to DPM/radon barrier. Proprietary insulated finned cavity closers - Kingspan "Thermabate" or similar approved, to be fitted horizontally and vertically to all openings inserted in accordance with B.S. 5628

Cavity wall to be closed at high level with proprietary insulated cavity closer.

Substructure walls to be class A concrete blockwork (or similar approved) taken down to foundation level. Openings to be provided where necessary to allow drainage / service pipes to pass through substructure

If required by Structural Engineer, 10mm movement joints to comprise polysulphide foam filler with colour matched mastic sealant, all subject to Structural Engineer's design.



LATERAL RESTRAINT

Provide 30x5mm galvanised mild steel anchor straps at maximum 2000mm ctrs, fixed along gables, ceilings of roofs and at first and second floor joist level (subject to easi-floor joist and truss manufacturers requirements), over timber noggins between the main members, at least half the depth of the main members, by minimum 50mm wide packed tight to outside wall. Straps to span minimum three joists/rafters.

GROUND FLOOR CONSTRUCTION

Overall floor construction to achieve maximum 0.13 W/m².K U-Value. To comprise 75mm reinforced sand/cement screed on min 500 gauge polythene separation layer overlapped 150mm at joints and turned 100mm up at perimeter. 120mm Kingspan Kooltherm K103 Floorboard insulation with min. 25mm thick perimeter insulation board to face of walls to insulate edge.

150mm thick concrete floor slab to SE design under Visqueen or similar Radon DPM , lapped and sealed with compatible cavity wall DPC in accordance with manufacturer's instructions. Slab laid over min 150mm well compacted hardcore with sand blinding.

single ply membrane at ridge to

manufacturer's details

GLAZING

WINDOWS/ DOORS CONSTRUCTION PPC aluminium frames fitted with sealed, low-e glazed units by

including frames to be 1.4 W/m²K Note: this is an area weighted

average U-Value, not a centre pane value. G Value 0.4 max,

light transmission 0.7 (70%) minimum. Colour of frames to be

confirmed by Client. All accessible windows to have 6.8mm

laminated outer plane to comply with BS7950 and must meet

Install 'Velux' or similar double glazed rooflight in position shown

Primary entrance door to achieve a U-Value of 1.4 W/m²K and

provide a minimum clear opening between face of door and

door jamb of 775mm. Level threshold access to be formed,

All ground floor internal doors to have a minimum 750mm clear

opening measured between door leaf and opposite door stop

security standards compliant with PAS 24-1012.

all in accordance with current legislation.

maximum threshold height 15mm.

Pilkington or similar. Maximum overall U Value of windows

To any situations where windows are below a level of 800mm above finished floor level and in doorways below a level of 1500mm above floor level including 300mm either side of such doorways, to be in toughened safety glass to BS6206:1981.

All new structural beams (other than roof support) to be fire

protected to 30 minutes with instumescent paint

All materials and components to be used fully in accordance with manufacturer's recommendations and instructions. All timber used structurally and in exterior joinery, including roofing battens to be pressure treated against insect and fungal infestation

NON LOAD BEARING INTERNAL PARTITIONS TO GENERAL AREAS

63x38mm treated C24 timber studs located at max 600mm

thick SoundBloc plasterboard and 3mm plaster skim finish

centres (89x38mm stud if over 2.4m high) faced with 12.5mm

*** amendments to co-odinate with structural engineers details