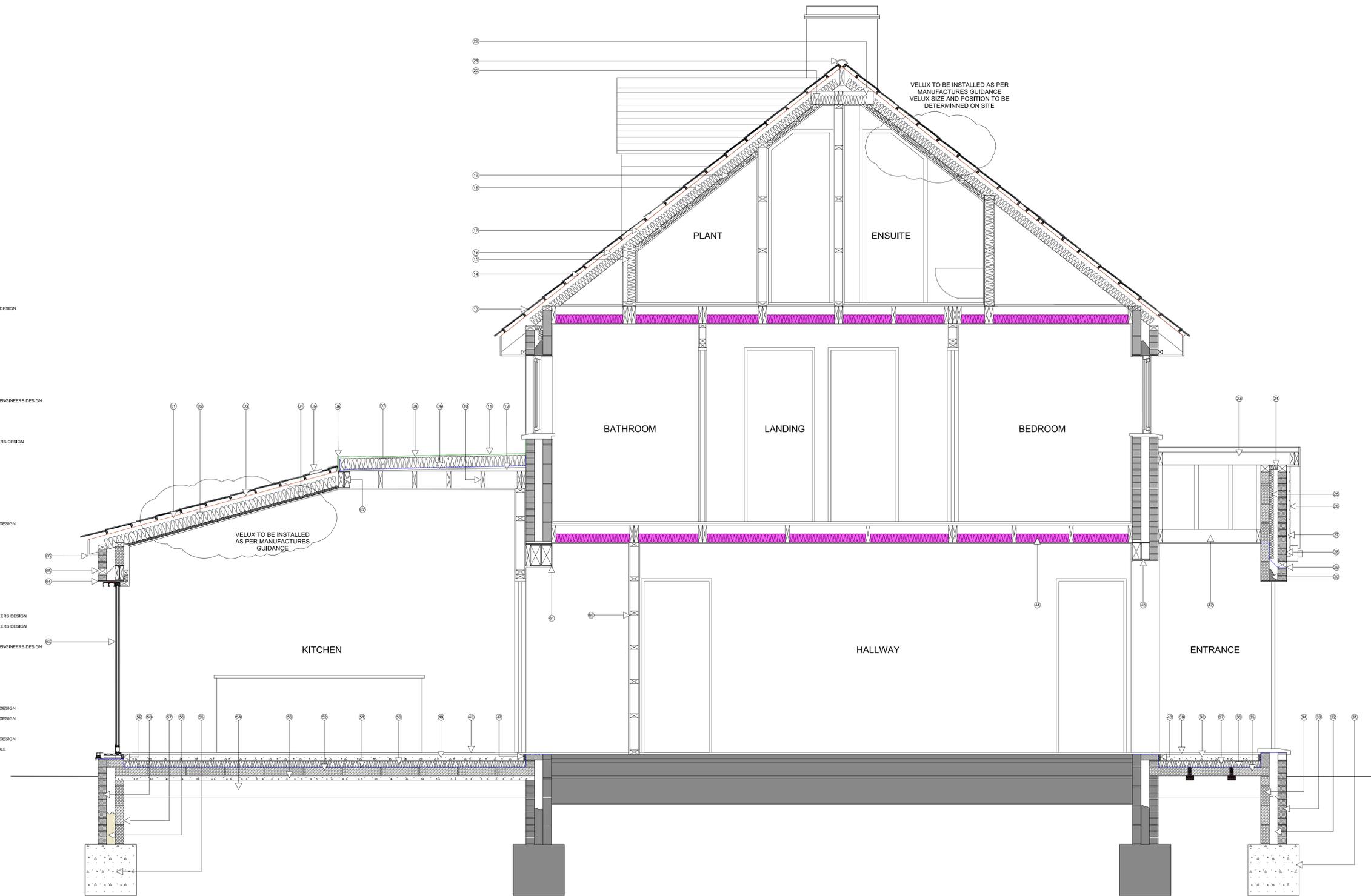


- ① 175x50mm C24 RAFTER
- ② 125MM CELOTEX GA4000
- ③ UNTEARABLE BREATHER MEMBRANE
- ④ 25MM CELOTEX TB4000
- ⑤ TILE VENT
- ⑥ CODE 5 LEAD FLASHING
- ⑦ 125MM CELOTEX CROWN BOND
- ⑧ 18MM WSP
- ⑨ 18MM WSP
- ⑩ 200x200MM C24 JOIST
- ⑪ EPDM
- ⑫ 160 FRING
- ⑬ TILE TO MATCH EXISTING
- ⑭ UNTEARABLE BREATHER MEMBRANE
- ⑮ 100MM CELOTEX GA4000
- ⑯ 50MM AIR GAP
- ⑰ EXISTING RAFTER
- ⑱ 100MM CELOTEX GA4000
- ⑲ 50MM CELOTEX GA4000
- ⑳ 100MM CELOTEX GA4000
- ㉑ VENTED RIDGE TILE
- ㉒ COLLAR TILE AS PER STRUCTURAL ENGINEERS DESIGN
- ㉓ RIDGE BEAM
- ㉔ INSULATED CAVITY CLOSER
- ㉕ 50MM CELOTEX GA4000
- ㉖ WEATHERBOARDING
- ㉗ CLADDING BATTEN
- ㉘ BRICK TO MATCH EXISTING
- ㉙ CAVITY TRAY
- ㉚ INSULATED CAVITY CLOSER
- ㉛ CONCRETE FOUNDATION AS PER STRUCTURAL ENGINEERS DESIGN
- ㉜ LEAN MIX INFILL
- ㉝ BRICK TO MATCH EXISTING
- ㉞ 100MM PLASMOR FIBROLITE 7N
- ㉟ BLOCK AND BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- ㊱ 1200 GAUGE DPM
- ㊲ 75MM CELOTEX GA4000
- ㊳ 75MM SAND CEMENT SCREED
- ㊴ FLOOR FINISH
- ㊵ 25MM CELOTEX TB4000
- ㊶ NOT IN USE
- ㊷ 100x50MM CEILING JOIST
- ㊸ STEEL BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- ㊹ 100MM ACUSTIC INSULATION
- ㊺ NOT IN USE
- ㊻ NOT IN USE
- ㊼ 25MM CELOTEX TB4000
- ㊽ FLOOR FINISH
- ㊾ 75MM SAND CEMENT SCREED
- ㊿ 75MM CELOTEX GA4000
- 1 1200 GAUGE DPM
- 2 BLOCK AND BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- 3 BLOCK AND BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- 4 200MM VOID
- 5 CONCRETE FOUNDATION AS PER STRUCTURAL ENGINEERS DESIGN
- 6 LEAN MIX INFILL
- 7 100MM PLASMOR FIBROLITE
- 8 BRICK TO MATCH EXISTING
- 9 25MM CELOTEX TB4000
- 10 100x50MM C24 STUD
- 11 STEEL BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- 12 STEEL BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- 13 SLIDING EXTERNAL DOOR
- 14 STEEL BEAM AS PER STRUCTURAL ENGINEERS DESIGN
- 15 CAVITY TRAY CONNECTED TO PLASTIC WEEPHOLE
- 16 VENTED SOFFIT



LINTELS

Lintels to be in accordance with DB Structural design

Lintels to new ground floor external cavity wall openings to be IG insulated cavity lintels L1/S 100 or similar approved lintel with min 150mm end bearings with 12mm thickness of insulation to underside of lintel base plate and damp proof cavity trays and weep holes over lintels. All lintels to be propped during installation.

Generally lintels to openings in internal 100mm block walls to be single course pre-stressed concrete lintels with min 150mm end bearings with min 3 course of brickwork or one course of blockwork above. 65x100mm for 900mm openings and 100x150mm for 1800mm openings. PSCL's in external thickness walls to be min 100x215mm for 900mm openings with min 150mm end bearings.

STRUCTURAL STEEL

Steels to be in accordance with DB Structural design

All beams to be hidden in ceiling / first floor construction where possible. All beams, padstones, surrounds and connections as per details and calculations by DB Structural. Please refer to DB Structural calculations sheets and drawings.

Supply and install new structural elements such as new beams, roof structure, floor structure, bearings, and padstones in accordance with the Structural Engineer's calculations and details. Refer to SDP Consulting documents. New steel beams to be encased in 12.5mm Gyproc FireLine board with staggered joints. Gyproc FireCase or painted in Nullifire 5 or similar intumescent paint to provide 1/2 hour fire resistance as agreed with Building Control. All fire protection to be installed as detailed by specialist manufacturer.

FLAT ROOF CONSTRUCTION & INSULATION

Flat Roof to be built in accordance with DB Structural design

New flat roof to be formed using 50x150mm C24 roof joists at max 400mm centres off fully nailed galvanised m.s masonry to timber joist hangers off new and existing external cavity walls. New joists to be strutted at centre of span with 1 row of min 50x150mm treated timber or 38x38mm Herringbone strutting. Lateral restraint to be installed along external walls where joists run parallel using galvanised m.s straps. Straps to be Min 30x5mm carried over Min 3 joists with right angle return fixed into cavity over uncut block. Straps to be Max 1.5 metre centres fixed into each joist with 38x100mm noggins fixed between joists under straps. Code-4 lead flashing to all perimeter abutments to new and existing masonry.

Flat roof coverings to be single ply PVC membrane fully adhered to 125mm Celotex Crown-Bond insulation fully bonded as VC on 18mm OSB/3 timber deck fixed at max 150mm centres on 160 treated firing pieces on timber joist construction as above with 12.5mm plasterboard & skim finish internally. To give design U-Value 0.18W/m²K for insulation at rafter level. Please refer to Celotex & roof-light installation guides.

IMPORTANT NOTE: This is a warm deck roof and has the inherent danger of construction moisture being trapped inside once sealed up, which can cause condensation and future damage. It is the Main Contractors responsibility to ensure that the roof structure and insulation is kept dry during installation and that sufficient drying out time is allowed before sealing up internally. A moisture test is recommended prior to finishing internally.

PITCH ROOF CONSTRUCTION & INSULATION

Pitched roof to be built in accordance with DB Structural design

GROUND FLOOR PORCH

150x50mm C24 Rafters fixed onto 47x100mm treated softwood wall plate strapped to inner leaf of new cavity wall with galvanised m.s anchor straps plugged and screwed to walls at max 1800mm centres. Rafters to be fixed to wall plate using galvanised steel truss clips. Roof finishes to be Plain Concrete Tiles to match existing. on 25x50mm treated battens on Proctor Roofshield untearable and breathable roofing membrane draped between 47x150mm rafter of Attic truss. Ridge tiles to be Marley Eternit 450 Modern in Mosborough Red fitted on dry fix ventilated ridge system. Softwood PAR plain fascia soffit and barge boards painted white with over fascia ventilation all round providing 10mm continuous ventilation with 112mm H.R Alumasc black cast aluminium guttering set to falls with 68mm aluminium downpipes to existing S.W drainage and soakaway. Lateral restraint to be provided at rafter level along gable wall using galvanised m.s straps. Straps to be Min 1000x30x5mm carried over Min 3 rafters with right angle return fixed into cavity over uncut block. Straps to be Max 1.5 metre centres. Insulation to be 100mm Celotex GA5000 cut between rafters flush to underside leaving 60mm free air gap to roof membrane with 50mm Celotex GA4000 fixed to underside of rafters with joints taped as VCL with 12.5mm plasterboard and skim finish internally. To give design U-Value 0.17W/m²K for insulation at rafter level. Please refer to Celotex & Proctor & Marley Eternit installation guides. Roof coverings to be installed to meet B5534 requirements.

GROUND FLOOR MONO PITCH

175x50mm C24 Rafters fixed onto 47x100mm treated softwood wall plate strapped to inner leaf of new cavity wall and centre spanning steel beam I with galvanised m.s anchor straps plugged and screwed to walls at max 1800mm centres. Rafters to be fixed to wall plates using galvanised steel truss clips. Roof finishes to be Plain Concrete Tiles to match existing. on 25x50mm treated battens on Proctor Roofshield untearable and breathable roofing membrane draped between 47x150mm rafter of Attic truss. Ridge tiles to be Marley Eternit 450 Modern in Mosborough Red fitted on dry fix ventilated ridge system. Softwood PAR plain fascia soffit and barge boards painted white with over fascia ventilation all round providing 10mm continuous ventilation with 112mm H.R Alumasc black cast aluminium guttering set to falls with 68mm aluminium downpipes to new & existing S.W drainage and soakaway at the rear. Lateral restraint to be provided at rafter level along gable wall using galvanised m.s straps. Straps to be Min 1000x30x5mm carried over Min 3 rafters with right angle return fixed into cavity over uncut block. Straps to be Max 1.5 metre centres. Insulation to be 125mm Celotex GA5000 cut between rafters flush to underside leaving 50mm free air gap to roof membrane with 25mm Celotex TB4000 fixed to underside of rafters with joints taped as VCL with 12.5mm plasterboard and skim finish internally. To give design U-Value 0.17W/m²K for insulation at rafter level. Please refer to Celotex & Proctor & Marley Eternit installation guides. Roof coverings to be installed to meet B5534 requirements.

MAIN ROOF

Existing roof structure to be retained. Existing rafters are 150x50mm, existing sheathing, battens and tiles to be replaced. Roof finishes to be Plain Concrete Tiles to match existing. on 25x50mm treated battens on Proctor Roofshield untearable and breathable roofing membrane draped between 47x150mm rafter of Attic truss. Ridge tiles to be Marley Eternit 450 Modern in Mosborough Red fitted on dry fix ventilated ridge system. Softwood PAR plain fascia soffit and barge boards painted white with over fascia ventilation all round providing 10mm continuous ventilation with 112mm H.R Alumasc black cast aluminium guttering set to falls with 68mm aluminium downpipes to existing S.W drainage and soakaway. Lateral restraint to be provided at rafter level along gable wall using galvanised m.s straps. Straps to be Min 1000x30x5mm carried over Min 3 rafters with right angle return fixed into cavity over uncut block. Straps to be Max 1.5 metre centres. Insulation to be 100mm Celotex GA5000 cut between rafters flush to underside leaving 50mm free air gap to roof membrane with 50mm Celotex GA4000 fixed to underside of rafters with joints taped as VCL with 12.5mm plasterboard and skim finish internally. To give design U-Value 0.17W/m²K for insulation at rafter level. Please refer to Celotex & Proctor & Marley Eternit installation guides. Roof coverings to be installed to meet B5534 requirements

VELUX TO BE INSTALLED AS PER MANUFACTURERS GUIDANCE
VELUX SIZE AND POSITION TO BE DETERMINED ON SITE

VELUX TO BE INSTALLED AS PER MANUFACTURERS GUIDANCE



SCALE BAR 1:25

SCALE BAR