

ROOF COVERING TO BE CONCRETE PLAIN TILES BY REGARD OR SIMILAR TO BE SUPPLIED BY MANUFACTURER'S INSTRUCTIONS TO FORM A WATERPROOF COVERING. TILES ARE TO BE Laid ON 38 x 25mm TREATED SOFTWOOD BATTENS WAILED AT REQUIRED CENTRES ON TYPICAL BREAKABLE ROOFING FELT Laid HORIZONTALLY ACROSS ROOF TIMBERS WITH 150mm MINIMUM OVERLAP TO EACH JOINT.

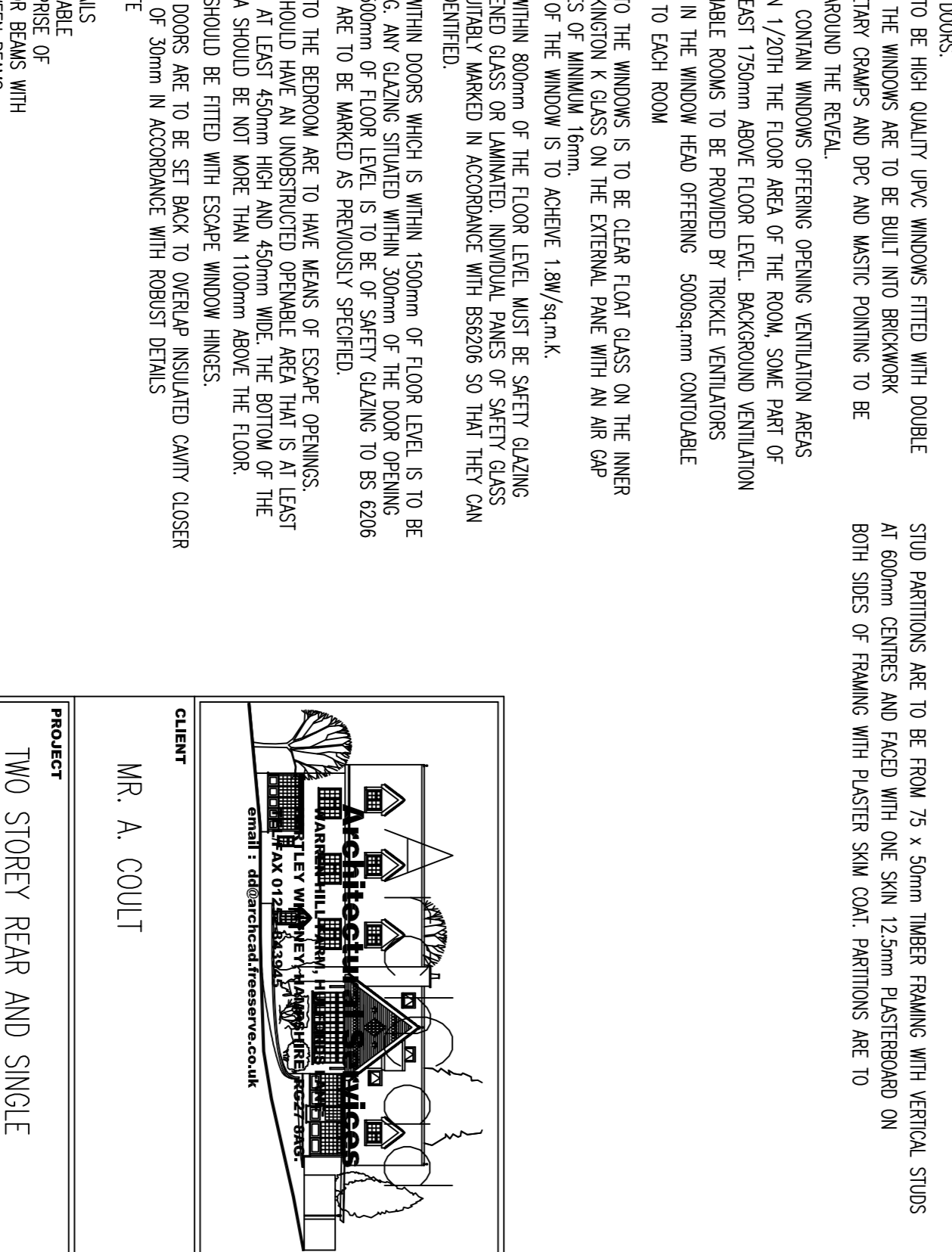
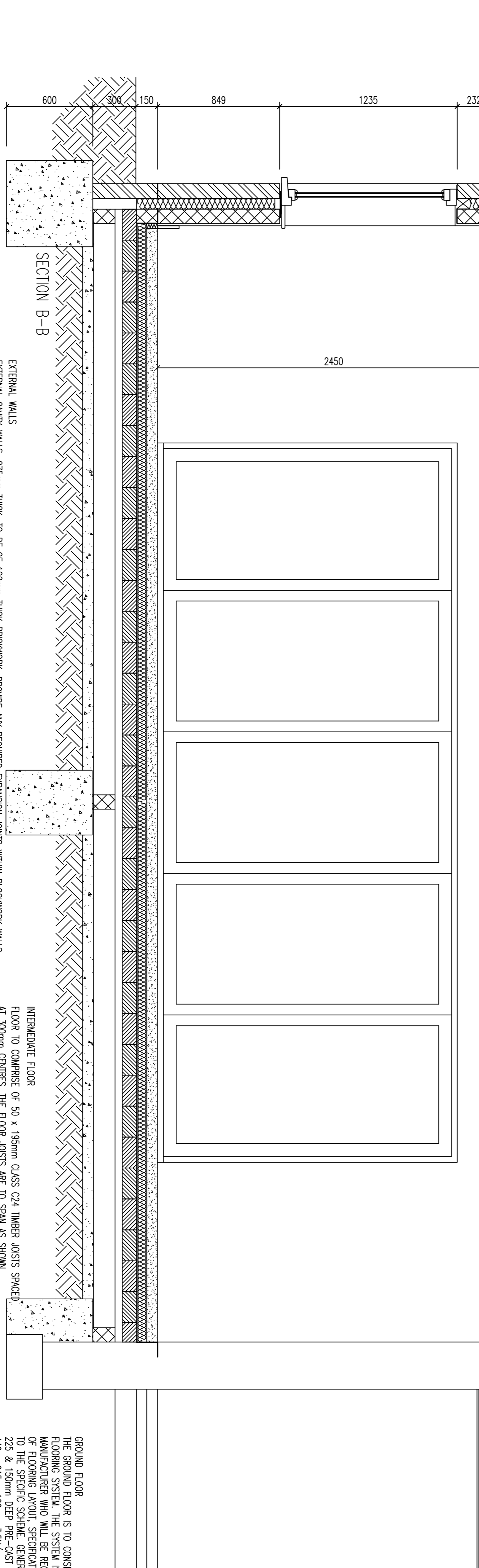
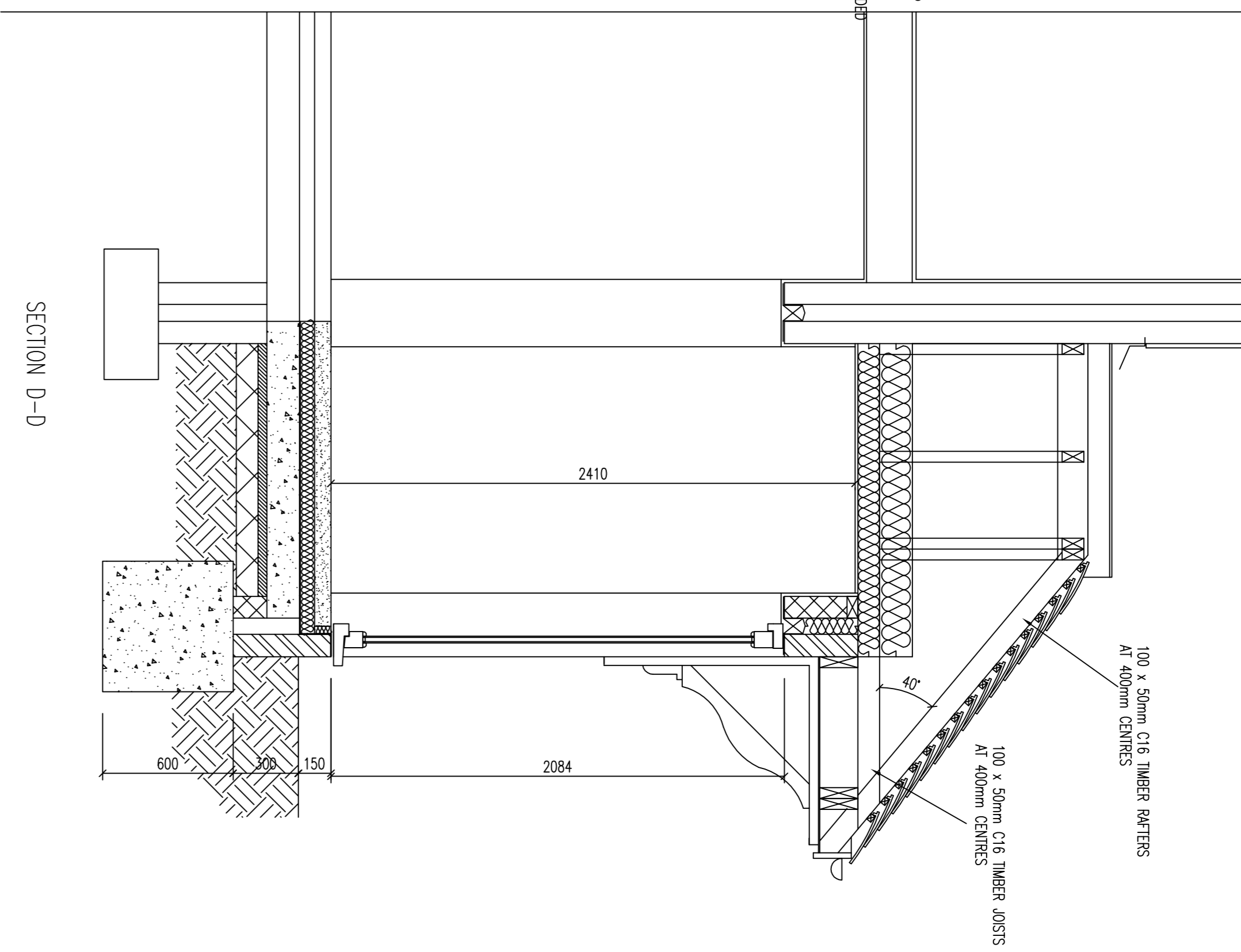
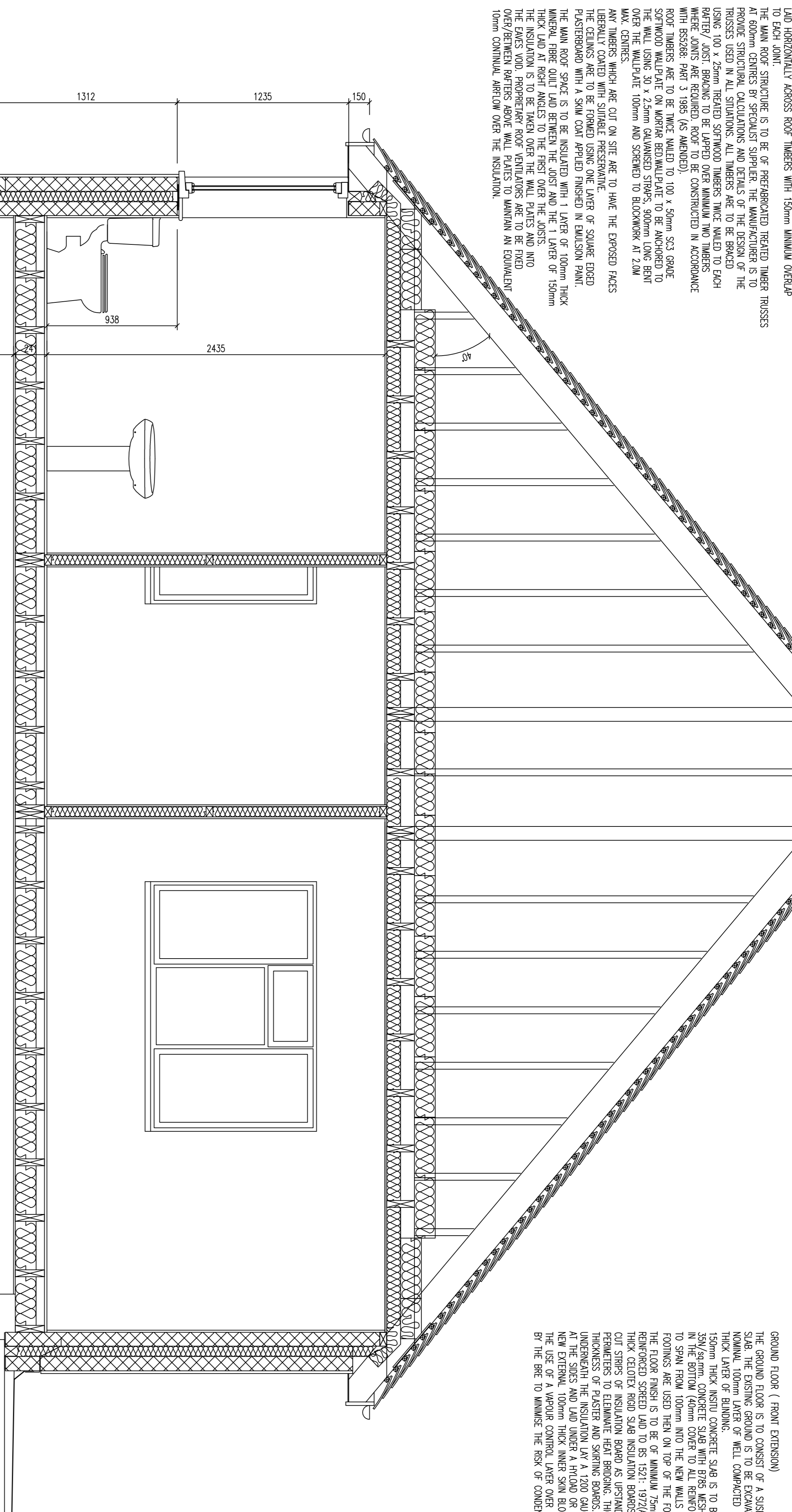
THE ROOF VOID IS TO BE VENTILATED VIA EAVES VENTS INSTALLED TO ONE SIDE OF THE ROOF. THE EQUIVALENT OF A 10mm HOLE CONTINUOUS AIR GAP TO THE LENGTH OF THE ROOF EAVES. MINIMUM CLEARANCE TO THE ROOF EAVES. U-VALUE ASHED TO 0.16W/sqm.K.

THE FLAT ROOF ELEMENT IS TO BE FORMED OF TIMBER FRISMS WAILED TO THE TIMBERS WITH A MINIMUM DEPTH OF FINISH TO BE 35mm, 18mm THICK WBP PLYWOOD DECKING WAILED TO EACH FRIM, FINISHED IN LEAD WORK LAPPED OVER THE TOP TILES OF THE PITCHED ROOF LEAD TO BE Laid IN LINE WITH LEAD SHEET ASSOCIATION GUIDE LINES.

THE MAIN ROOF STRUCTURE IS TO BE OF PREFABRICATED TREATED TIMBER TRUSSES AT 600mm CENTRES BY SPECIALLY SUPPLIER. THE MANUFACTURER IS TO PROVIDE STRUCTURAL CALCULATIONS AND DETAILS OF THE DESIGN OF THE TRUSSES USED IN ALL SITUATIONS. ALL TIMBERS ARE TO BE BRACED USING 100 x 25mm TREATED SOFTWOOD TIMBERS THICK WAILED TO EACH RAFTER JOINT. BRACING TO BE LAPPED OVER MINIMUM TWO TIMBERS WITH JOINTS BEING LOCATED AS FAR FROM THE TRUSS CENTRE AS POSSIBLE. THE JOINTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE TRUSSES ARE TO BE BRACED TO THE WALL USING 30 x 25mm GALVANISED STRIPS, 900mm LONG, BENT OVER THE WALLPLATE, 120mm AND SCREWED TO BLOCKWORK AT 2.0M MAX. CENTRES.

ANY TIMBERS WHICH ARE CUT ON SITE ARE TO HAVE THE EXPOSED FACES LIBERALLY COATED WITH SUITABLE PRESERVATIVE. THE CEILINGS ARE TO BE FORMED USING ONE LAYER OF SQUARE EGGED PLASTERBOARD WITH A SKIM COAT APPLIED FINISHED IN EMULSION PAINT. THE MAIN ROOF SPACE IS TO BE INSULATED WITH 1 LAYER OF 100mm THICK MINERAL FIBRE QUILT Laid BETWEEN THE JOIST AND THE 1 LAYER OF 150mm THICK LAD AT RIGHT ANGLES TO THE FIRST OVER THE JOISTS. THE INSULATION IS TO BE TAKEN OVER THE WALL PLATES AND INTO THE EAVES VOID. PROPRIETARY ROOF VENTILATORS ARE TO BE FITTED OVER/BETWEEN THE EAVES ABOVE THE INSULATION TO MAINTAIN AN EQUIVALENT 10mm CONTINUOUS AIR GAP OVER THE INSULATION.

GROUND FLOOR (FRONT EXTENSION)
THE GROUND FLOOR IS TO CONSIST OF A SUSPENDED CONCRETE SLAB. THE EXISTING GROUND IS TO BE EXCAVATED TO PROVIDE A NOMINAL 100mm LAYER OF WELL COMPACTED HARDCORE, 40mm THICK LAYER OF BLINDING, 150mm THICK NSMU CONCRETE SLAB IS TO BE CAST ON THE BLINDING, 35W/sqm CONCRETE SLAB WITH B7B5 WESH REINFORCEMENT IN IN THE BOTTOM (40mm COVER TO ALL REINFORCEMENT) TO BE CAST TO SPAN FROM 100mm INTO THE NEW WALLS OR IF TRENCH FILL FOOTINGS ARE USED THEN ON TOP OF THE FOOTINGS. THE FLOOR FINISH IS TO BE OF MINIMUM 75mm THICK SAND/CEMENT REINFORCED SPREAD Laid TO BS 1521: 1972/AS AMENDED) ON 80mm THICK CELOTEX RIBD SLAB INSULATION BOARDS Laid ON STRUCTURAL SLAB OLD STRIPS OF INSULATION BOARD AS UPSTANDS TO FIN AROUND FLOOR PERIMETER TO ELIMINATE HEAT BRIDGING. THICKNESS OF SLABER AND SPRING BEARING UNDERNEATH THE INSULATION LAY A 1200 GAUGE VIGORLEN PPA TURNED UP AT THE SIDES AND Laid UNDER A HTRD OR SIMILAR DPC IN THE NEW EXTERNAL 100mm THICK INNER SKIN BLOCK WALL. THE USE OF A VAPOUR CONTROL LAYER OVER THE INSULATION IS RECOMMENDED BY THE BRE TO MINIMISE THE RISK OF CONDENSATION.



FOUNDATIONS:
THE NEW FOUNDATIONS ARE TO BE EITHER TRADITIONAL 600 x 250mm DEEP CONCRETE STRIP FOUNDATIONS OR CONCRETE TRENCH FILL, TAKEN DOWN TO A FORMATION LEVEL AS APPROVED BY THE LOCAL AUTHORITY BUILDING INSPECTOR ON SITE AND TO SUIT THE GROUND CONDITIONS. THE FOUNDATIONS WILL BE AT LEAST 900mm BELOW GROUND LEVEL. THE WALLS UP TO DPC LEVEL ARE TO BE FORMED IN 2 SIZES OF DENCE BLOCKWORK WITH A 75mm CANTY WHICH WILL BE FILLED WITH LEAN MK CONCRETE TO A MINIMUM 225 BELOW GROUND LEVEL. THE BRICKWORK TO THE OTHER SKIN OF THE CAVITY WALL WILL BEGON AT LEAST 3 COURSES BELOW FINISHED GROUND LEVEL.

EXTERNAL WALLS
EXTERNAL CAVITY WALLS 275mm THICK, TO BE OF 102mm THICK BRICKWORK 75mm WIDE CAVITY, 100mm THICK CELCON SOLAR CONCRETE BLOCK INNER SKIN WITH A MINIMUM STRENGTH OF 35N/sqm, MINERAL FINISH TO BE 15mm THICK LEANHEART PLASTER, THE BRICKWORK AND BLOCKWORK SONS ARE TO BE Laid IN 1/3 CEMENT WORKING. THE CAVITIES ARE TO BE FILLED WITH 75mm THICK GROWN ORTHERM 32 INSULATION BATS, U-VALUE 0.29W/sqm.K. ON FIRST FLOOR EXTERNAL SKIN TO BE 100mm BLOCKWORK WITH A 20mm THICK 2 COAT RENDERED FINISH. STAINLESS STEEL WALL TIES TO BS 1743: 1979/AS AMENDED) TO BE BUILT INTO THE CAVITY WALLS AT 750mm MAX. HORIZONTALLY AND 450mm MAX. VERTICALLY. TIES ARE TO BE STAGGERED HESS, MINDEST NUMBER OF TIES AT WINDOWS/ DOOR OPENINGS TO 300mm MAX. VERTICAL CENTRES. WHEN BUILDING NEW WALLS OFF OF EXISTING USE FERREY STARTER PROFILES, ALL VERTICAL AND HORIZONTAL DPC'S ARE TO BE BUILT IN TO BS 743: 1970/AS AMENDED) STANDARD.

INTERMEDIATE FLOOR
FLOOR TO COMPRISE OF 50 x 195mm CLASS C24 TIMBER JOISTS SPACED AT 300mm CENTRES. THE FLOOR JOISTS ARE TO SPAN AS SHOWN ON THE PLANS ON DRAWING. JOISTS TO BE SUPPORTED ON GALVANISED STEEL HANGERS BUILT INTO THE BLOCK WALLS. THE JOISTS ARE TO BE DOUBLED UP UNDER THE STUD PARTITIONS WHERE THE PARTITION RUNS IN THE SAME DIRECTION AS THE JOISTS AND UNDERNEATH THE BATH POSITION. THE FLOOR JOISTS ARE TO BE STRUTTED BY 2 ROWS OF SOLID OR HERMINGBOONE STRUTTING AT ONE THIRD POSITIONS, SOLID STRUTTING SHOULD BE AT LEAST 38mm THICK EXTENDING AT LEAST 0.75 TIMES THE DEPTH OF THE JOISTS. HERMINGBOONE STRUTTING SHOULD BE AT LEAST 38 x 38mm TIMBER SIZE. UNDERSIDE OF THE JOISTS ARE TO BE LINED IN 1 LAYER OF 12.5mm PLYSTERBOARD PREPARED READY TO RECEIVE A SKIM COAT FINISH. CHIFFBOARD WAILED TO JOISTS. FLOOR VOID BETWEEN JOISTS TO BE INSULATED WITH 150mm THICK MINERAL WOOL INSULATION FOR ACOUSTIC PURPOSES.

GROUND FLOOR
THE GROUND FLOOR IS TO CONSIST OF A SUSPENDED CONCRETE FLOORING SYSTEM. THE SYSTEM IS TO BE BY A SPECIALIST MANUFACTURER WHO WILL BE REQUIRED TO PROVIDE FULL DETAILS OF THE SPECIFIC SCHEDULE, GENERALLY THE SYSTEM IS TO COMPRISE OF 440 x 715 x 100mm DEEP PRE-CAST PRESSTRESSED CONCRETE FLOOR BEAMS WITH 440 x 715 x 100mm 35N/sqm BLOCKWORK SPANNEG BETWEEN BEAMS. OPENING MINIMUM 100mm CLEAR DEPTH FROM BEAM TO BEAM. MEASURING A MINIMUM OF 150mm CLEAR DEPTH FROM BEAM STRIETS TO SOULM. THE VOID IS TO BE VENTILATED TO OUTSIDE AIR VIA CRANKED VENTILATORS BUILT IN TO THE PERIMETER CAVITY WALLS AT CENTRES TO ACHIEVE EQUIVALENT 1500mm CLEAR OPENING TO EACH WERE. THE FLOOR FINISH IS TO BE OF MINIMUM 75mm THICK SAND/CEMENT REINFORCED SPREAD Laid TO BS 1521: 1972/AS AMENDED) ON 80mm THICK CELOTEX RIBD SLAB INSULATION BOARDS Laid ON STRUCTURAL SLAB OLD STRIPS OF INSULATION BOARD AS UPSTANDS TO FIT AROUND FLOOR PERIMETER TO ELIMINATE HEAT BRIDGING. THICKNESS NOT TO EXCEED THICKNESS OF PLASTER AND SKRINING BOARDS. UNDERNEATH THE INSULATION LAY A 1200 GAUGE VIGORLEN PPA TURNED UP AT THE SIDES AND Laid UNDER A HTRD OR SIMILAR DPC IN THE NEW EXTERNAL 100mm THICK INNER SKIN BLOCK WALL. THE USE OF A VAPOUR CONTROL LAYER OVER THE INSULATION IS RECOMMENDED BY THE BRE TO MINIMISE THE RISK OF CONDENSATION.

WINDOWS AND DOORS:
WINDOWS ARE TO BE HIGH QUALITY UPVC WINDOWS FITTED WITH DOUBLE GLAZED UNITS. THE WINDOWS ARE TO BE BUILT INTO BRICKWORK USING PROPRIETARY GRAPES AND DPC AND WASTIC POINTING TO BE CARRIED OUT AROUND THE REVEL. ALL ROOMS TO CONTAIN WINDOWS OFFERING VENTILATION AREAS NOT LESS THAN 1/20TH THE FLOOR AREA OF THE ROOM, SOME PART OF WHICH IS AT LEAST 1750mm ABOVE FLOOR LEVEL. BACKGROUND VENTILATION TO ALL OCCUPABLE ROOMS TO BE PROVIDED BY THICKLE VENTILATORS INCORPORATED IN THE WINDOW HEAD OFFERING 5000sqmm CONTROLLABLE OPENING AREA TO EACH ROOM. THE GLAZING TO THE WINDOWS IS TO BE CLEAR FLOAT GLASS ON THE INNER PANE AND PLUMINGTON K GLASS ON THE EXTERNAL PANE WITH AN AIR GAP BETWEEN PANES OF MINIMUM 12mm. THE U-VALUE OF THE WINDOW IS TO ACHIEVE 1.8W/sqm.K. ANY GLAZING WITHIN ROOMS OF THE FLOOR LEVEL MUST BE SAFETY GLAZING EITHER TOUCHED GLASS OR LAMINATED INDIVIDUAL PANES OF SAFETY GLASS SHOULD BE SIMILARLY MARKED IN ACCORDANCE WITH BS6206 SO THAT THEY CAN CLEARLY BE IDENTIFIED. ANY GLAZING WITHIN ROOMS WHICH IS WITHIN 1500mm OF FLOOR LEVEL IS TO BE SAFETY GLAZING. ANY GLAZING SITUATED WITHIN 300mm OF THE DOOR OPENING AND WITHIN 1500mm OF FLOOR LEVEL IS TO BE OF SAFETY GLAZING TO BS 6206 SAFETY PANES ARE TO BE MARKED AS PREVIOUSLY SPECIFIED.

INTERNAL WALLS
STUD PARTITIONS ARE TO BE FROM 75 x 50mm TIMBER FRAMING WITH VERTICAL STUDS AT 600mm CENTRES AND FACED WITH ONE SKIN 125mm PLYSTERBOARD ON BOTH SIDES OF FRAMING WITH PLASTER SKIM COAT. PARTITIONS ARE TO BE BUILT IN TO THE EXISTING WALLS.

CLIENT	MR. A. COULT
PRODUCT	TWO STOREY REAR AND SINGLE STOREY FRONT EXTENSIONS 28 CHESSNUT GROVE, FLEET, HAMPSHIRE, GU15 3JW
DRAWING TITLE	SECTIONS B-B & D-D
DATE	12/09/07
JOB DRAWING No.	07023/BR/006
SCALE	1:20
REV.	A