

ground floor spec:
Block & Beam Floor:
Mexboro 155 - 530 system (TBC by supplier or alternative to specialist suppliers design)
Pre-stressed concrete beams with standard building blocks laid between.
Site preparation – just remove topsoil and vegetation to provide a minimum 75mm void or 150mm for clay between underside of floor and ground surface.
No compaction or back-fill – no ground-heave problems.
Foundations – internal partition walls can be carried by double or triple beams.
Specify Mexboro 155 Beam floor as manufacturers instructions, and supplying design layout drawings, technical details and calculations for Building Regulations approval.
Design of Beam:
Beams have been designed in accordance with the Code of Practice BS 8110:1985.
Design of Infill Blocks
All infill blocks must be able to satisfy a 3.5N/mm2 transverse load test.
Construction:
Using a single block at each end, the beams will be spaced as shown on the supplying design. Slip tiles are bedded as required and the remainder of the infill blocks laid. A sand a cement grout mix is then brushed over the whole slab and worked well into the joints.

Ensure minimum 150mm ventilated void to underside of floor joists. Ground radon barrier and sand blinding. Void to be ventilated by air bricks on two opposing walls, placed so that ventilating air will have a free path between opposite sides and to all parts. Openings should be not less than either 1500mm²/m run of external wall, or 500mm²/m of floor area, whichever gives the greater opening area.

Floor insulation:
150mm Kingspan K103 floorboard or other similar approved to achieve target "U"-Value of 0.11W/m²K

Floor finish:
Parquet flooring or other product approved over 20mm latex self-levelling finishing screed over
50mm thick cement sand screed on 500 gauge separating layer

All to achieve an actual 'U'-Value of 0.21W/m²K (target 'U'-Value less than 0.25/m²K).
All in accordance with App Doc L1A.

- roof terrace:
- 30mm rubber promenade terrace tiles over Silverseel GRP Roofing System (2 layer of 450g CSM for a heavy foot traffic, plus fire rated to BS476 part 3 FAB) or other similar approved. All necessary trims to allow rainwater runoff into front gutter laid.
 - 22mm OSB.
 - 70mm Kingspan TR27 LPC/FM insulation board on vapour control layer.
 - 22mm OSB. Band firings to give 1:60 falls.
 - Resilient bars, where excessive lengths of suspended ceiling timbers are used then acoustic joists hangers from the floor structure above will be required to ensure the joists are not over spanned.
 - 200mm ROCKWOOL RW3 (60kg/m³) insulation cut tight between roof joist.
 - Underline roof joists with two layers of SOUND SHIELD PLUS 12.5mm plasterboard (moisture resistant to wet areas).

New code:5 lead flashings and cavity trays inserted around perimeter upstand.

All to achieve an actual 'U'-Value of 0.17W/m²K (target 'U'-Value less than 0.18/m²K).
All in accordance with App Doc L1A.

All to achieve the requirements for ADE 2003.

NB. all new joist ends to be treated / wrapped in damp proof membrane to protect from damp

note:
all drawings to be read in conjunction with the Structural Engineer's designs, specifications and data sheets. any conflicting information must be reported to BlueChip Architecture

warm roof specification (flat):
GRP finish 'warm roof' detail with grey topcoat over
GRP laminate polyester resin over
strand mat reinforcement roof with all necessary trims to allow rainwater runoff into gutters laid over
18mm OSB 3 decking over
150mm PIR insulation (Kingspan or similar approved) over
1200g damp proof membrane (150mm laps) over
18mm OSB 3 sub-deck over
200 x 50mm C24 roof joists spaced @ 400 centres
NB. 'warm roof' system to be designed and installed by specialist contractor as to ensure rainwater run-off to the sides

timber stud spec (structural):
70x50mm C16 timber studs spaced at 400mm centres with head and sole plates fixed to suitable structures with 70mm acoustic insulation and lined with 12.5mm OSB board to both faces, 12.5mm gyproc wallboard to both faces & finished with a wet plaster skim - double timbers when fixing in to masonry structures

dormer wall spec (timber frame):
PCC grey RAL 7016 standing seam zinc / aluminium cladding
fixed to proprietary fixing rail over Tyvec vapour permeable membrane over 12mm OSB outer and inner panels fixed to 150x 50mm C16 timber studs @ 400mm c/c's filled with 150mm Kingspan Kooltherm K3 rigid board, inner 1x layer 15mm gyproc wall board on 19x38mm treated timber battens over vertically fixed 25x50mm treated timber battens finished with a 3mm wet plaster skim over

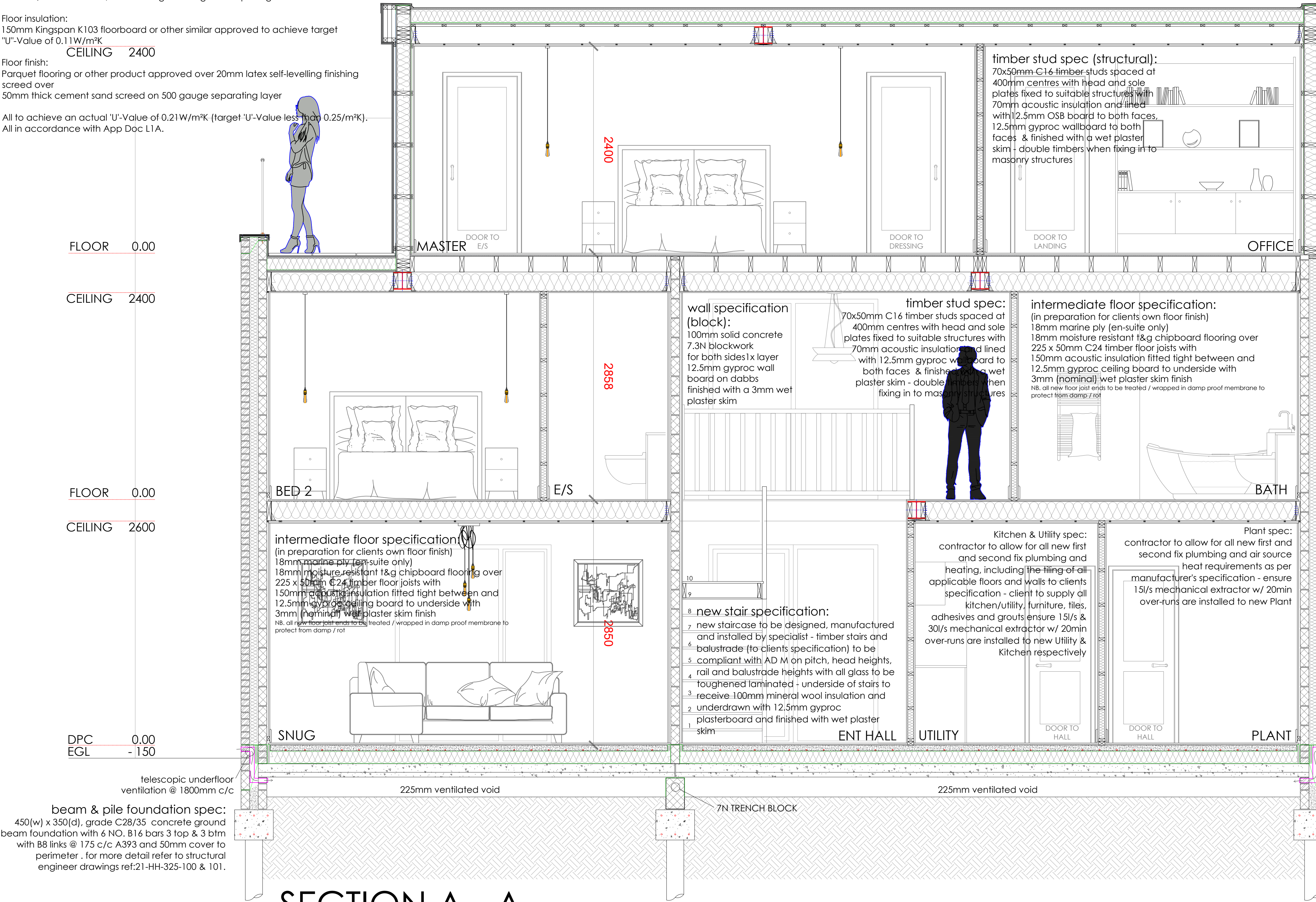
wall specification (brick):
102.5mm facing brick
100mm drytherm 37 cavity slab full fill insulation
100mm solid concrete blockwork (7N) 1x layer 12.5mm gyproc wall board on dabbs finished with a 3mm wet plaster skim
NB: ensure internal finishes line through flush

glass protection spec:
17.5mm laminated and toughened glass to cover width of sliding doors and to be fixed back to structural timber frame using proprietary clamp fixings

glazing spec (below +800 FFL):
all glazing below 800mm above finished floor level to be toughened, laminated and to have have a smoked finish

membrane spec:
Alderprufe GRA Gas barrier to be installed as per manufactures specification

below dpc specification:
engineering brick up to DPC built off 100mm solid concrete 7N blockwork coming out of the ground off.
100mm solid concrete blockwork inside and out with a 100mm cavity and weak mix cavity fill up to 225mm below DPC (total width 300mm)



PROJECT REF
21067

DRAWING REF
320

SCALE
1:25 @ A1

DATE
JUN '21

CLIENT
MR DANIELS
LAND ADJACENT No.20
CHORLTON VILLAS
HARDY LANE
MANCHESTER
M21 8DN

PROJECT
NEW BUILD DETACHED DWELLING W/
ACCESS DRIVE & ASSOCIATED CAR
PARKING AND LANDSCAPING

DRAWING TITLE
PROPOSED SECTION A - A

PLANNING

ISSUED TO BUILDING PLANNING APPROVAL 19.06.23

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