

W1 - BRICK WALL
 (U-value required of 0.18w/m2k)
 Clay facing brick TBC
 (bond and mortar colour to match existing) to minimum 2 courses below dpc level
 10mm cavity
 90mm Cellotex Thermaclass 21 Cavity wall insulation
 100mm Celcon standard 3.6N aircrete blockwork (0.15k)
 12.5mm dot and dab plasterboard, skim and paint finish

W2 - RENDER WALL
 (U-value required of 0.18w/m2k)
 painted wet/ pebbledash to match existing on galvanised EML, with bed reinforcement 2 courses above and below structural openings
 100mm Plasmor fibolite clay aggregate blockwork (0.23k)
 10mm cavity
 90mm Cellotex Thermaclass 21 Cavity wall insulation
 100mm Celcon standard 3.6N aircrete blockwork (0.15k)
 12.5mm dot and dab plasterboard, skim and paint finish

W3 - DORMER CHEEKS
 (U-value required of 0.18w/m2k)
 vertical concrete plain tiles TBC
 25 x 38mm treated sw battens
 ventilation gap provided at high level
 breather membrane - Kingspan Nilvent or similar approved
 9mm OSB3 sheathing
 100x 50mm regularised sw studwork with 100mm Cellotex XR4000 between
 and 50mm Cellotex GA 4000 inside (aluminium taped).
 12.5mm plasterboard skim and paint finish (to achieve 30min fire resistance)

W4 - INTERNAL STUDWORK
 12.5mm plasterboard, skim and paint finish
 100 x 50mm regularised sw studwork at 400 ctrs
 50mm isover insulation/ 100mm rockwool in between
 12.5mm plasterboard, skim and paint finish
Note 1: for all bathrooms/wc's add 12mm plywood reinforcement where required and substitute standard plasterboard for moisture resistant plasterboard
Note 2: for all tiled walls add 12mm hardbacker and omit plasterboard

W5 - INTERNAL BLOCKWORK
 12.5mm dot and dab plasterboard with skim
 100mm Celcon standard 3.6N aircrete blockwork
 12.5mm dot and dab plasterboard, skim and paint finish

W6 - LOFT PARTY WALL
 225mm existing brick party wall
 25mm gap/ tolerance
 100 x 50mm studwork
 100mm rockwool mineral fibre
 25 x 38mm treated sw battens
 12.5mm plasterboard, skim and paint finish

W4A - INTERNAL STUDWORK (INSULATED)
 (U-value required of 0.18w/m2k)
 12.5mm plasterboard and skim
 100 x 50mm regularised sw studwork at 400 ctrs
 100mm Cellotex XR4000 between
 50mm Cellotex GA4000 internally
 12.5mm plasterboard, skim and paint finish

R1 - MAIN ROOF
 (U-value required of 0.15w/m2k)
 New clay plain tiles Humber 'Tuscan'
 25 x 38mm treated sw battens for 400mm rafter spacings
 Breather membrane - Proctor Roofshield (air and vapour permeable) horizontal draped
 150mm x 47mm C24 treated SW cut rafters @400ctrs
 over fascia vents, min 25mm air gap between breather and insulation 100mm Cellotex XR4000 rigid insulation between
 50mm Cellotex GA4000 rigid insulation under (aluminium taped)
 12.5mm plasterboard, skim and paint finish

R2 - GROUND FLOOR EXTENSION ROOF
 (U-value required of 0.15w/m2k)
 Either new plain clay tiles - Sandtoft Humber 'Tuscan' with Permavent easytile roofing system to allow 17.5degree pitch, or 20/20 Sandtoft 'Tuscan' clay interlocking tile.
 25 x 38mm treated sw battens for 400mm rafter spacings
 Breather membrane - Proctor Roofshield (air and vapour permeable) horizontal draped
 145mm x 45mm C24 treated SW cut rafters @400ctrs
 over fascia vents, min 25mm air gap between breather and insulation 100mm Cellotex XR4000 rigid insulation between
 50mm Cellotex GA4000 rigid insulation under (aluminium taped)
 12.5mm plasterboard, skim and paint finish
Note: where insulation follows ceiling
 100x 50 ceiling rafters, over fascia vents, min 50mm ventilation,
 100mm Knauf Loftroll 40 laid between ceiling joists and 200mm Knauf Loftroll 40 over ceiling joists.
 12.5mm plasterboard, skim and paint finish
 Dwarf walls: 100 x 50mm regularised sw studwork at 400 ctrs
 100mm Cellotex XR4000 between
 50mm Cellotex GA4000 internally
 12.5mm plasterboard, skim and paint finish

RX1 - EXISTING TILED ROOF
 (U-value required of 0.15w/m2k)
 Existing tiles and battens removed
 New clay plain tiles - Santoft Humber 'Tuscan'
 New 25 x 38mm treated sw battens
 New Breather membrane - Proctor Roofshield (air and vapour permeable) horizontal draped
 Existing 100x 50 rafters retained, New over fascia vents, min 25mm air gap between breather and insulation 75mm Cellotex XR4000 rigid insulation between 65mm Cellotex GA4000 rigid insulation under (aluminium taped)
 12.5mm plasterboard, skim and paint finish
Note: where insulation follows ceiling
 Existing 100x 50 ceiling rafters retained, New over fascia vents, min 50mm ventilation, 100mm Knauf Loftroll 40 laid between ceiling joists and 200mm Knauf Loftroll 40 over ceiling joists.
 12.5mm plasterboard, skim and paint finish
 Dwarf walls: 100 x 50mm regularised sw studwork at 400 ctrs
 100mm Cellotex GA 4000 between
 50mm Cellotex GA4000 internally
 12.5mm plasterboard, skim and paint finish

R3 - DORMER ROOF
 (U-value required of 0.15w/m2k)
 EPDM fleece backed
 140mm rigid Celotex Crown insulation
 Polythene 1000guage VCL
 18mm WBP Plywood deck
 SW firing laid to minimum 1in 80 falls
 145 x 45 C24 treated SW joists @400 ctrs
 12.5mm Plasterboard, skim and paint finish

WINDOWS (U-value of 1.4w/m2k)
 White uPVC casement windows
 Black ppc aluminium full height rear window W05
 Factory glazed with 24mm Low E
 (stippolite where obscured)
 trickle vents

ROOF LIGHTS (U-value of 1.4 w/m2k)
 Velux GGL-3059 3 x C06 (55w x 118h) 3 x C04 (55w x 78h) centre hung with EDP flashing for plain tiles
 Factory glazed with 24mm Low E

EXTERNAL DOORS (U-value of 1.4w/m2k)
 Black ppc aluminium bifolding patio door D04
 Black ppc aluminium glazed rear door D06
 Factory glazed with 24mm Low E
 RAL colour TBC
 handles TBC
 Multipoint locking

(Garage door not insulated TBC)

ROOF ACCESSORIES (new and replaced)
 112mm dia Black half round uPVC gutters
 Black round uPVC downpipes
 White uPVC fascias, soffits and bargeboards

F3 - LOFT FLOOR
 15mm carpet and underlay (by others)
 22mm t&g particleboard C4 grade glued and screwed
 195 x 45mm C24 joists at 400ctrs spanning between new structural beams and bolted to existing ceiling joists to SE details
 100mm rockwool insulation
 12.5mm plasterboard, skim and paint finish

F1A - GARAGE FLOOR
 150mm Reinforced Concrete Slab to structural engineers details
 DPM 1200guage polythene
 50mm blinding
 150mm well compacted hardcore

F2 - FIRST FLOOR
 15mm carpet and underlay (by others)
 22mm t&g particleboard C4 grade glued and screwed
 195 x 45mm C24 joists at 400ctrs
 100mm rockwool insulation
 12.5mm plasterboard, skim and paint finish

F1 - NEW GROUND FLOOR
 (U-value required of 0.18w/m2k P/A = 0.4)
 15mm floor finishes TBC (Note: if Tiles decoupling membrane MUST be installed)
 75mm sand cement or 60mm self levelling screed
 Nu-heat SL14 or similar underfloor heating pipework clipped through 500 guage polythene protection layer
 100mm Celotex XR4000 rigid insulation
 150mm Reinforced Concrete Slab to structural engineers details
 DPM 1200guage polythene
 50mm blinding
 150mm well compacted hardcore

ALL DIMENSIONS TO BE CHECKED ON SITE. BRACKETED DIMENSIONS ARE FOR CHECKING AND NOT FOR SETTING OUT PURPOSES. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT BEFORE COMMENCEMENT.

Notes

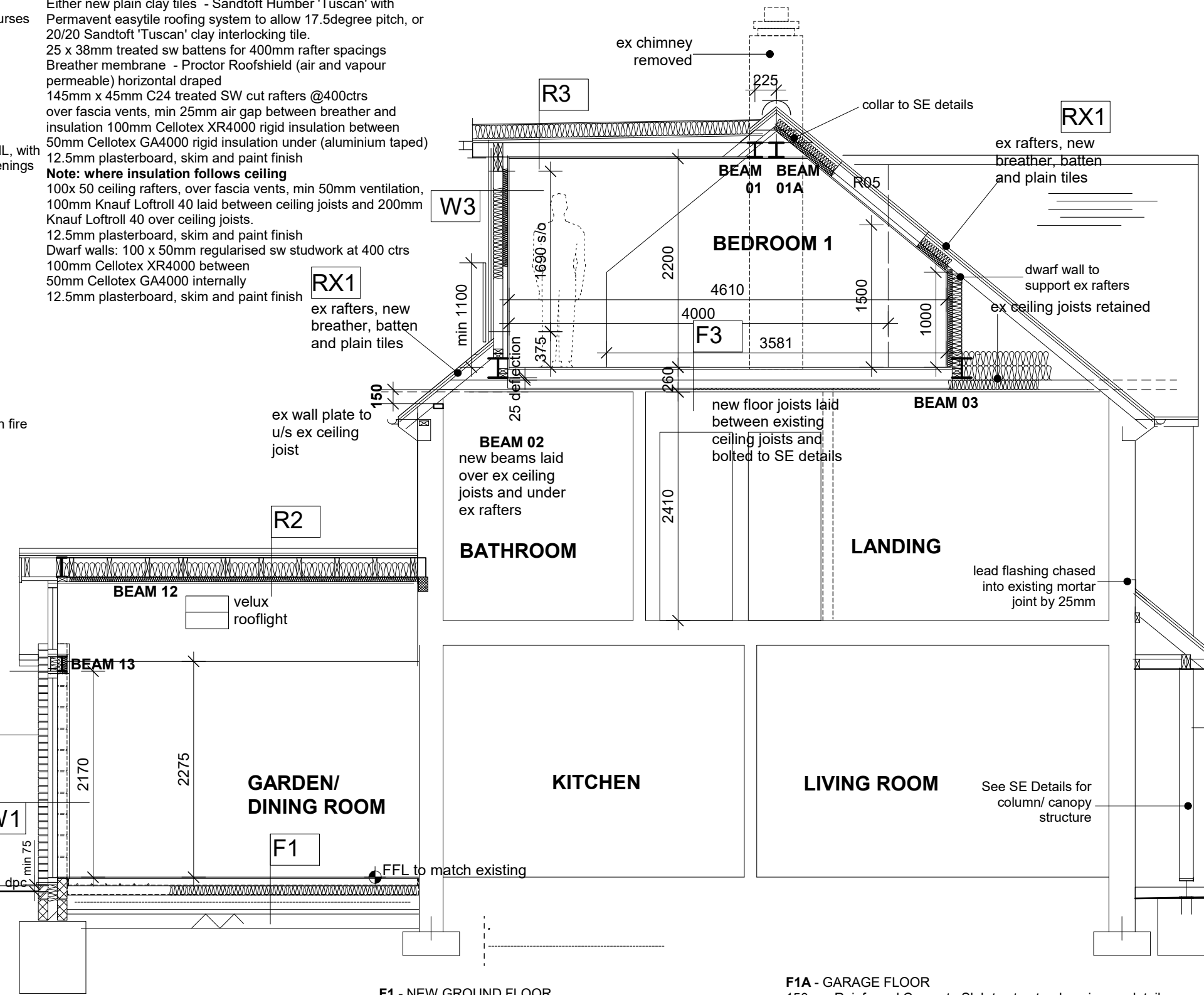
DRAWINGS TO BE READ IN CONJUNCTION WITH:
 - CONSTRUCTION BUILD UP NOTES ON 79BRH-106
 - BUILDING REGS SPECIFICATION 79BRH-500
 - STRUCTURAL ENGINEERS DRAWINGS & CALCULATIONS

Revisions

P1 - 19.10.2022: First Issue
 P2 - 28.10.2022: Updated following client mtg
 P3 - 21.11.2022: Draft Building Control issue
 P4 - 30.11.2022: Building Control issue

PRELIMINARY

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Drawing SECTION AA & CONSTRUCTION BUILD UPS			
Drawing No. 79BRH-106 P4	Scale 1:50 @ A3	Date 17.10.2022	h^a



SECTION AA