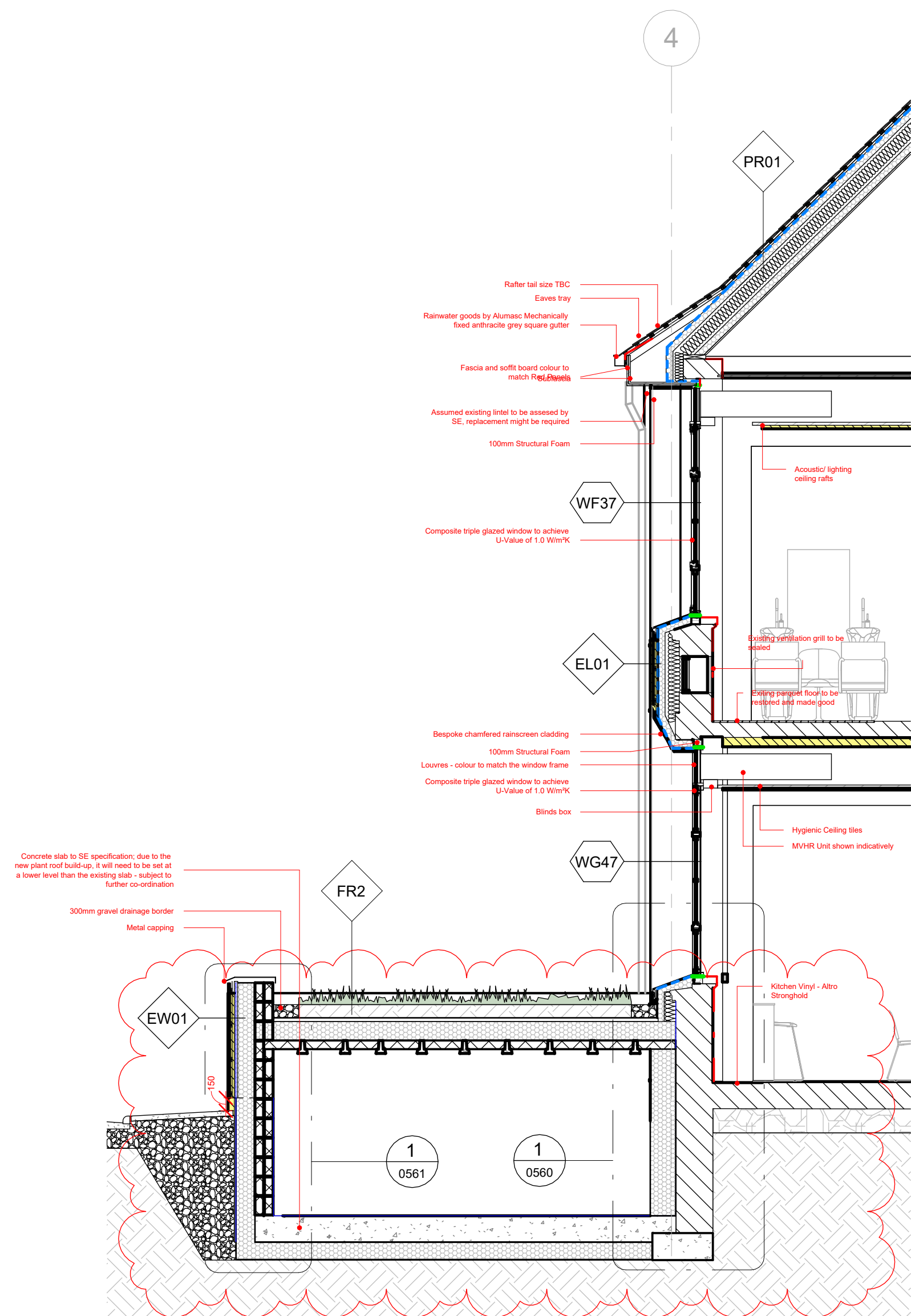
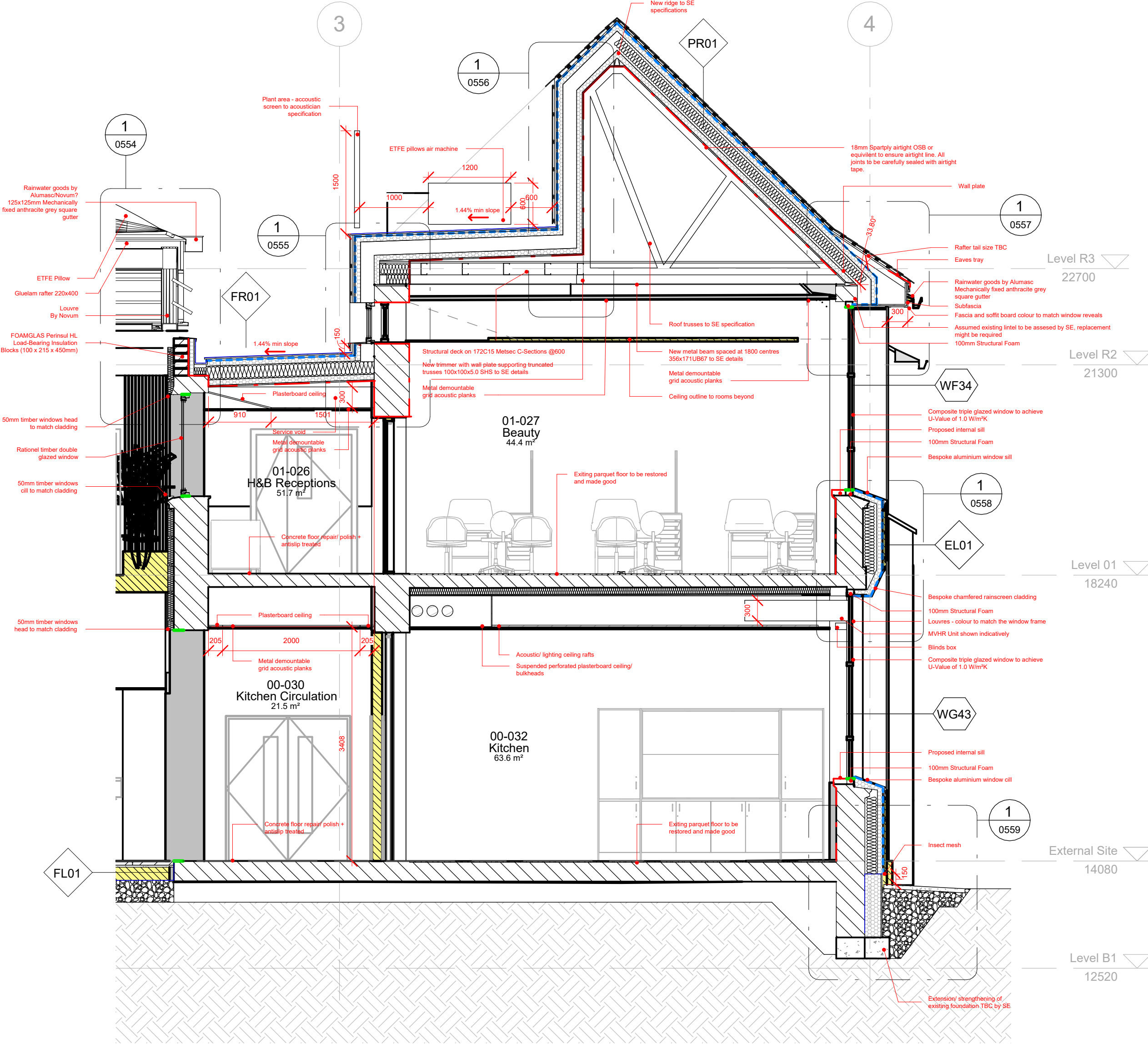




Key Section A

1 : 50



Key Section B

1 : 50

EXTERNAL WALL TYPES

EW01 - External wall to Semibase - 0.15W/m²K

18mm Insulated waterproof board to the edge of the foundation
DPM
220mm **Plinth insulation** – 100+120mm **Styrodur 2800 C XPS** (depth TBC)
Blockwork to SE Specification

EL01a - External Wall Lining 1 - 0.15W/m²K

406mm *Existing Wall*
200mm **UdiTHERM SK** wood fibre boards, mechanically fixed 2x100 mm
80mm **NaturHeld** universal wood fibre board , mechanically fixed
Ampatop Protecta monolithic breathable membrane (cladding specification depending)
25mm Counter battens
25mm Battens
12mm Rainscreen Cladding **Viroc VM** | Red or BR | White

EL1b - External Lining to the Main Building (below ground) - 0.15W/m²K

406mm *Existing Wall (to be checked on site)*
220mm **Plinth insulation** – **Styrodur 2800 C XPS**
18mm Insulated waterproof board to the edge of the foundation

EL2 - External Lining to Internal Courtyard

22mm x40mm Larch Cladding Battens
Black fabric wall cover
90mm Horizontal timber battens mechanically fixed to wall with acoustic insulation in between to acoustician specification

FLAT ROOF TYPES

FR1 – Flat roof to main building - 0.12W/m²K

3mm Hydrogard protection sheet.
Hydrotech 6125 waterproofing system
18mm T+G Plywood
25mm Counter battens
Ampatex Aero breathable membrane
80mm **NaturHeld** universal wood fibre board
200mm **SteicoFLEX** wood fibre wool insulation
insulation between joists @ 2% min slope
80mm **NaturHeld** universal wood fibre board
18mm Smartply
Metal demountable grid acoustic planks + plasterboard

FR 2 - Green roof semibase plant - 0.12W/m²K

40mm Biodiverse Vegetation Layer to landscape architect's specification
150mm Blackdown Biodiverse Substrates
5mm Blackdown Filter Layer
40mm Blackdown Biodiverse Drainage Layer
Blackdown Moisture/Protection Layer
Blackdown RG Root Barrier
Cementitious/mortar bed.
Alumasc Hydrodrain sub-surface drainage layer.
Alumasc LO-k Water Flow Reducing Layer.
220mm 100+100+20mm **Styrodur 2800 C XPS**
Hydrogard protection sheet.
Hydrotech 6125 waterproofing system incorporating FlexFlash F polyester reinforcement.
Beam and Block to Structural Engineers specification.

PITCHED ROOF TYPES

PR1 – Pitched roof to main building - 0.12W/m²K

South facing integrated PV tiles, size and specification to be confirmed by specialist
8mm Marley Clay Tiles Heather Blend
25mm Horizontal timber battens
25mm Vertical timber counter battens
Ampatex Aero breathable membrane on the roof.
80mm **NaturHeld** universal wood fibre board
200mm **SteicoFLEX** wood fibre wool insulation
insulation between rafters thickness TBC by SE
80mm **NaturHeld** universal wood fibre board
18mm Smartply OSB fully sealed at perimeters and penetrations

Lead flashing to be installed to valley, code as building regulations.

FLOOR TYPES

FL01 - New Courtyard Floor

60mm Marshalls Mosal X Concrete pavers- joint width of 3mm
30mm Bedding layer Well-graded "grit" sand (no cementitious content).
TBC New concrete slab to SE specification
TBC New Sub base to SE specification

P03	RBA Stage 3 annotation update	JJ	11.09.25	ES
P02	RBA Stage 3 Update	JJ	10.09.25	ES
P01	RBA Stage 3 Issue	JJ	10.09.25	ES
Revision	Description	Checked	Date	Drawn