

44.12 Ridge Height

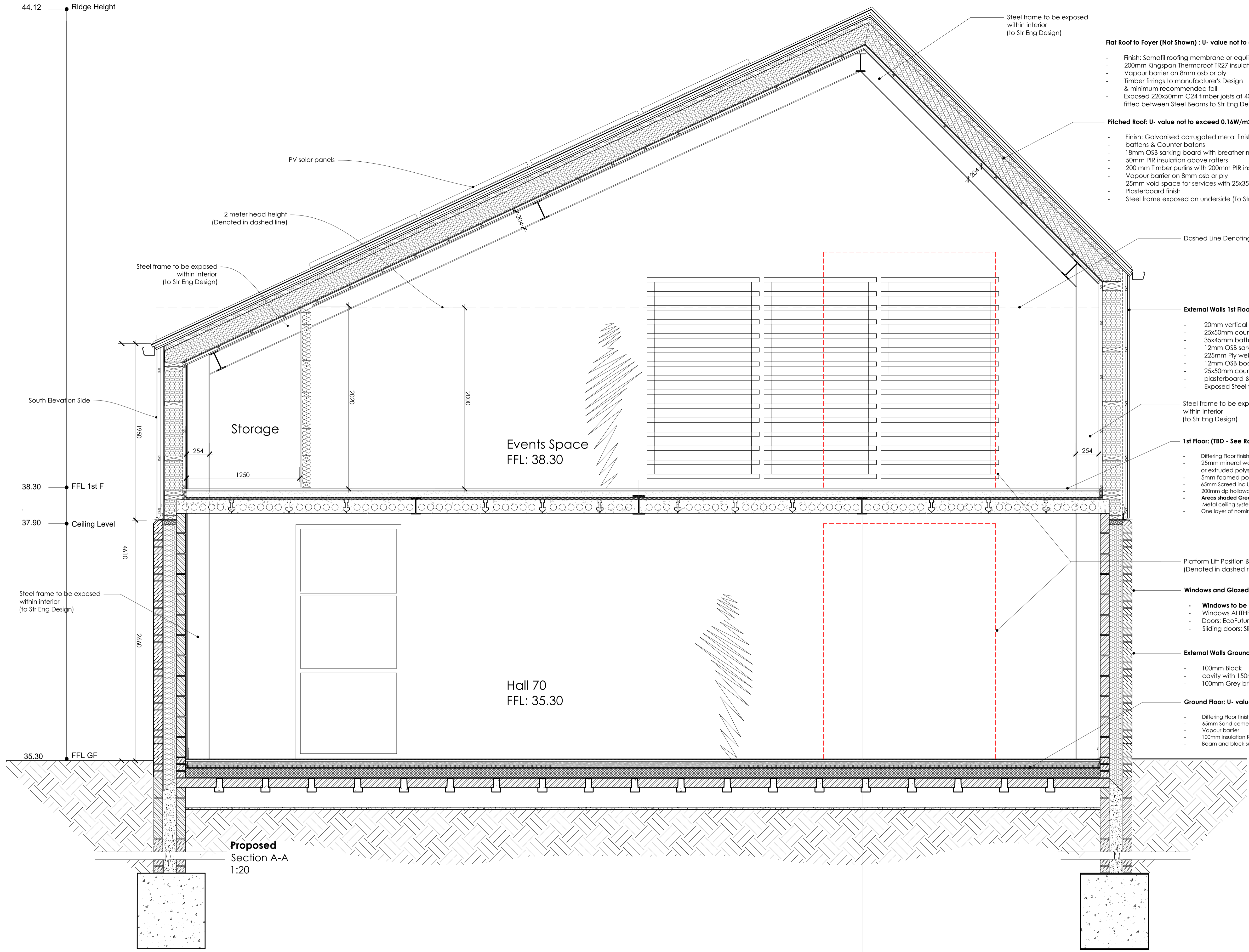
South Elevation Side

38.30 FFL 1st F

37.90 Ceiling Level

Steel frame to be exposed within interior (to Str Eng Design)

35.30 FFL GF



Steel frame to be exposed within interior (to Str Eng Design)

Flat Roof to Foyer (Not Shown) : U- value not to exceed 0.18W/m2K.

- Finish: Sarnafil roofing membrane or equivalent
- 200mm Kingspan Thermaroof TR27 insulation (Or equivalent)
- Vapour barrier on 8mm osb or ply
- Timber firings to manufacturer's Design & minimum recommended fall
- Exposed 220x50mm C24 timber joists at 400mm centres & fitted between Steel Beams to Str Eng Design

Pitched Roof: U- value not to exceed 0.16W/m2K.

- Finish: Galvanised corrugated metal finish.
- battens & Counter battens
- 18mm OSB sarking board with breather membrane.
- 50mm PIR insulation above rafters
- 200 mm Timber purlins with 200mm PIR insulation
- Vapour barrier on 8mm osb or ply
- 25mm void space for services with 25x35mm batons
- Plasterboard finish
- Steel frame exposed on underside (To Str Eng Design)

Dashed Line Denoting 2m head height

External Walls 1st Floor: U- value not to exceed 0.26W/m2K.

- 20mm vertical Larch cladding
- 25x50mm counter battens
- 35x45mm battens
- 12mm OSB sarking board with breather membrane.
- 225mm Ply web studs with full fill Rockwool insulation or equivalent
- 12mm OSB board with Vapor Control Layer
- 25x50mm counter battens (Service void)
- plasterboard & skim interior finish
- Exposed Steel frame (To Str Eng Design)

Steel frame to be exposed within interior (to Str Eng Design)

1st Floor: (TBD - See Robust Detail E-FC-8)

- Differing Floor finishes (20mm)
- 25mm mineral wool batt 140 kg/m3 (min), 25mm EPS (flooring grade SD) or extruded polystyrene insulation
- 5mm foamed polyethylene layer 30-36 kg/m
- 65mm Screed inc. UF heating
- 200mm c/p hollowcore plank (6.8m span) exposed within Hall as shown
- Areas shaded Green on Ground Floor Plan Key (Not Shown): Metal ceiling system providing 100mm to 50mm void space
- One layer of nominal 10 kg/m2 gypsum-based board

Platform Lift Position & aprox dimensions (Denoted in dashed red lines)

Windows and Glazed doors: U- value not to exceed 0.16W/m2K.

- Windows to be provided by Smart Aluminum systems (or equivalent)
- Windows ALITHERM 300 & 400 WINDOWS
- Doors: EcoFutura Rebated Door
- Sliding doors: Slide 200

External Walls Ground Floor: U- value not to exceed 0.26W/m2K.

- 100mm Block
- cavity with 150mm fullfill insulation
- 100mm Grey brick

Ground Floor: U- value not to exceed 0.18W/m2K.

- Differing Floor finishes
- 65mm Sand cement screed inc. UF heating
- Vapour barrier
- 100mm insulation Kingspan or similar with DPM
- Beam and block suspended floor on sleeper walls

Proposed Section A-A 1:20

PRELIMINARY

