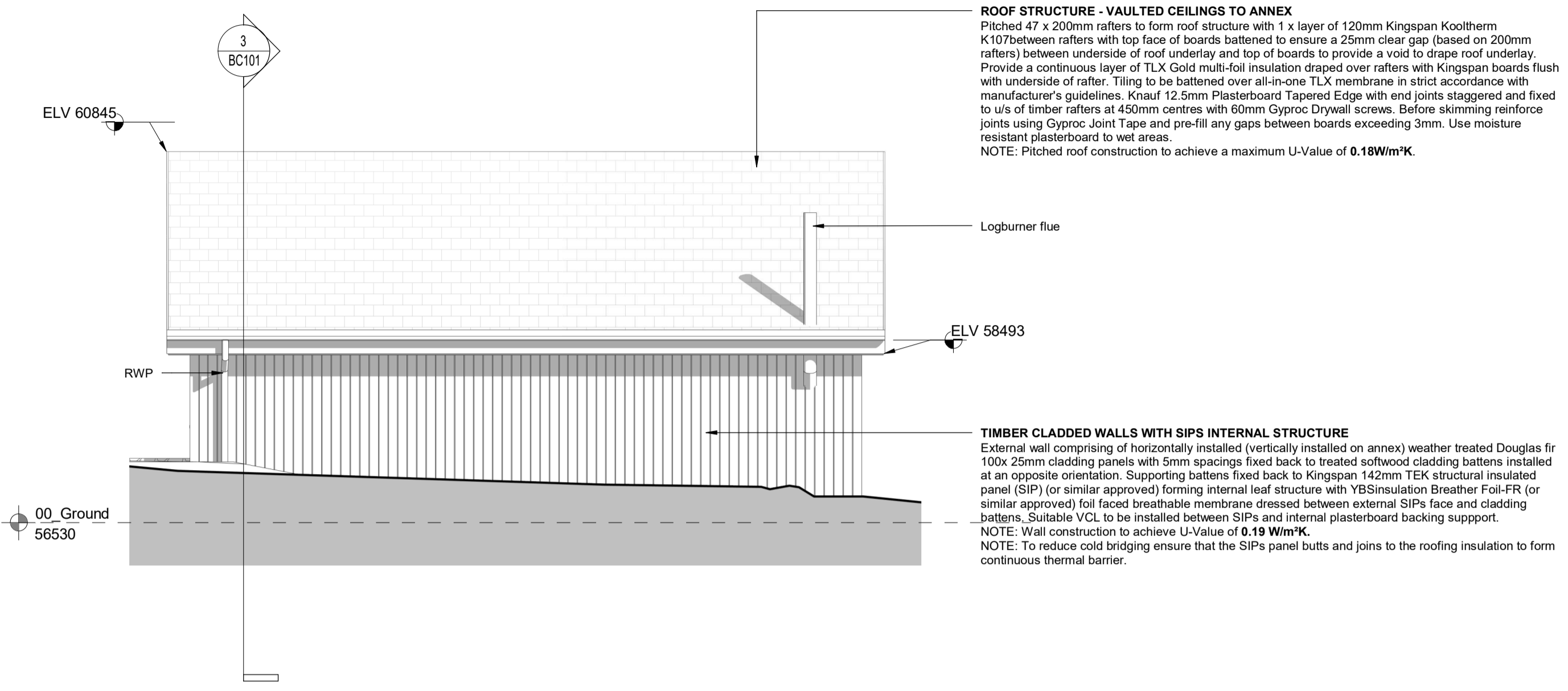


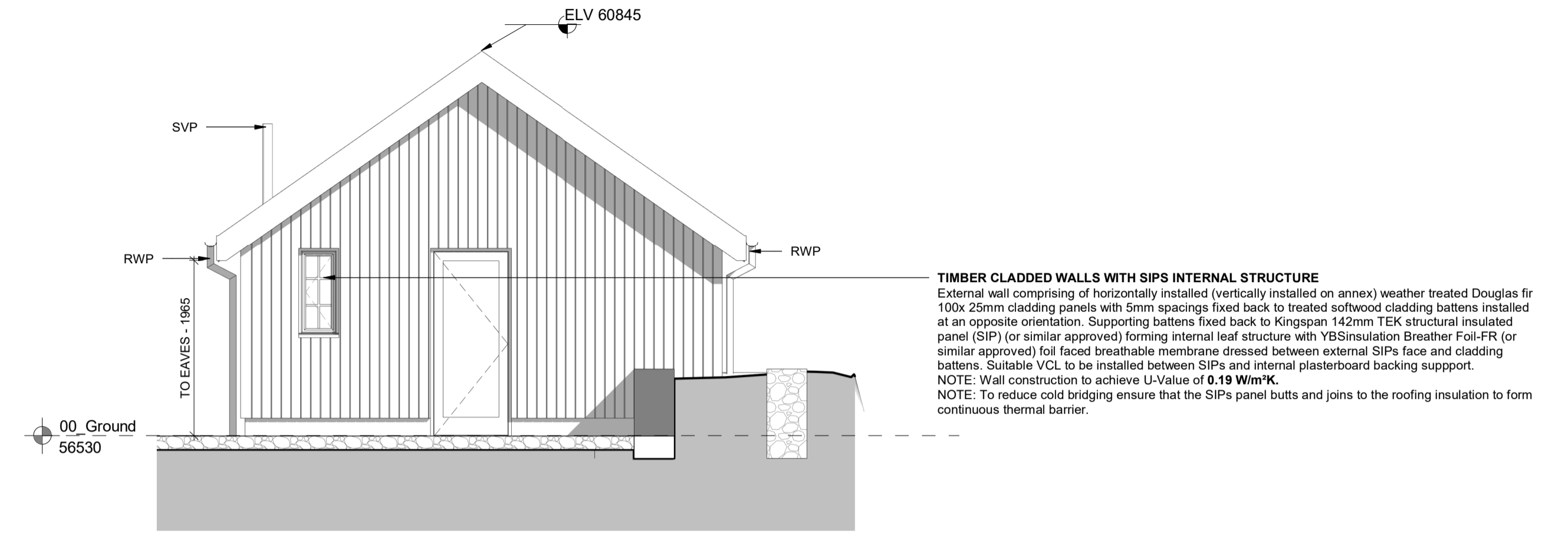
**1 Annex North Elevation**  
BC201 Scale - 1 : 50



**ROOF STRUCTURE - VAULTED CEILINGS TO ANNEX**  
Pitched 47 x 200mm rafters to form roof structure with 1 x layer of 120mm Kingspan Kooltherm K107 between rafters with top face of boards battened to ensure a 25mm clear gap (based on 200mm rafters) between underside of roof underlay and top of boards to provide a void to drape roof underlay. Provide a continuous layer of TLX Gold multi-foil insulation draped over rafters with Kingspan boards flush with underside of rafter. Tiling to be battened over all-in-one TLX membrane in strict accordance with manufacturer's guidelines. Knauf 12.5mm Plasterboard Tapered Edge with end joints staggered and fixed to u/s of timber rafters at 450mm centres with 60mm Gyproc Drywall screws. Before skimming reinforce joints using Gyproc Joint Tape and pre-fill any gaps between boards exceeding 3mm. Use moisture resistant plasterboard to wet areas.  
NOTE: Pitched roof construction to achieve a maximum U-Value of **0.18W/m<sup>2</sup>K**.

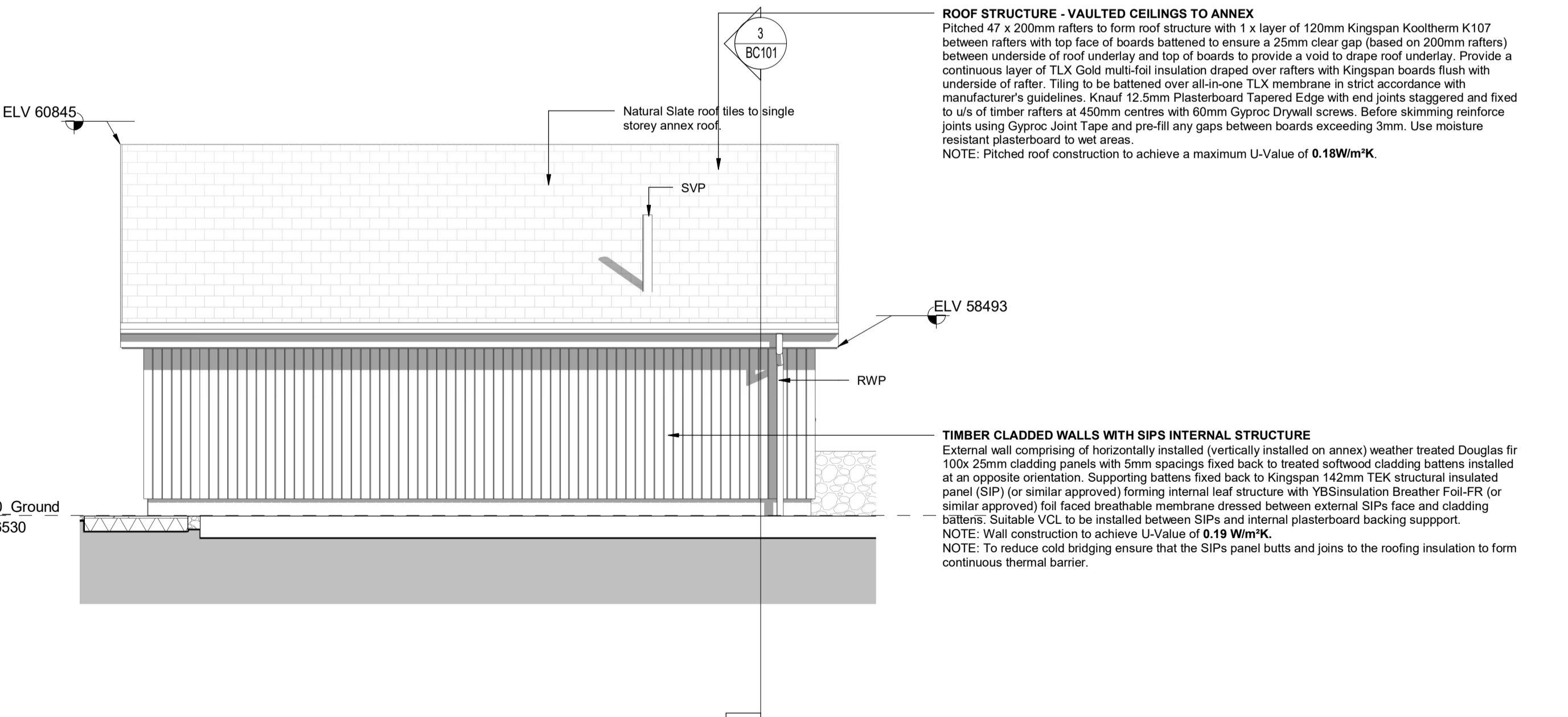
**TIMBER CLADDED WALLS WITH SIPs INTERNAL STRUCTURE**  
External wall comprising of horizontally installed (vertically installed on annex) weather treated Douglas fir 100x 25mm cladding panels with 5mm spacings fixed back to treated softwood cladding battens installed at an opposite orientation. Supporting battens fixed back to Kingspan 142mm TEK structural insulated panel (SIP) (or similar approved) forming internal leaf structure with YBSinsulation Breather Foil-FR (or similar approved) foil faced breathable membrane dressed between external SIPs face and cladding battens. Suitable VCL to be installed between SIPs and internal plasterboard backing support.  
NOTE: Wall construction to achieve U-Value of **0.19 W/m<sup>2</sup>K**.  
NOTE: To reduce cold bridging ensure that the SIPs panel butts and joins to the roofing insulation to form continuous thermal barrier.

**2 Annex East Elevation**  
BC201 Scale - 1 : 50



**TIMBER CLADDED WALLS WITH SIPs INTERNAL STRUCTURE**  
External wall comprising of horizontally installed (vertically installed on annex) weather treated Douglas fir 100x 25mm cladding panels with 5mm spacings fixed back to treated softwood cladding battens installed at an opposite orientation. Supporting battens fixed back to Kingspan 142mm TEK structural insulated panel (SIP) (or similar approved) forming internal leaf structure with YBSinsulation Breather Foil-FR (or similar approved) foil faced breathable membrane dressed between external SIPs face and cladding battens. Suitable VCL to be installed between SIPs and internal plasterboard backing support.  
NOTE: Wall construction to achieve U-Value of **0.19 W/m<sup>2</sup>K**.  
NOTE: To reduce cold bridging ensure that the SIPs panel butts and joins to the roofing insulation to form continuous thermal barrier.

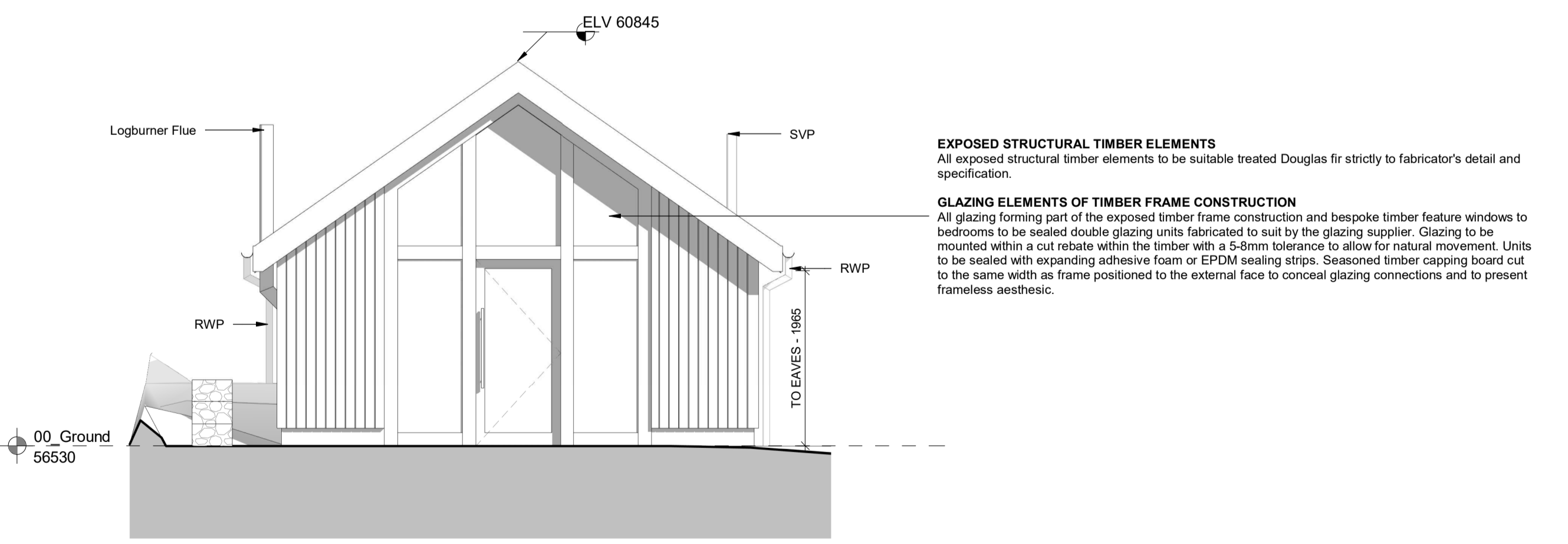
**3 Annex South Elevation**  
BC201 Scale - 1 : 50



**ROOF STRUCTURE - VAULTED CEILINGS TO ANNEX**  
Pitched 47 x 200mm rafters to form roof structure with 1 x layer of 120mm Kingspan Kooltherm K107 between rafters with top face of boards battened to ensure a 25mm clear gap (based on 200mm rafters) between underside of roof underlay and top of boards to provide a void to drape roof underlay. Provide a continuous layer of TLX Gold multi-foil insulation draped over rafters with Kingspan boards flush with underside of rafter. Tiling to be battened over all-in-one TLX membrane in strict accordance with manufacturer's guidelines. Knauf 12.5mm Plasterboard Tapered Edge with end joints staggered and fixed to u/s of timber rafters at 450mm centres with 60mm Gyproc Drywall screws. Before skimming reinforce joints using Gyproc Joint Tape and pre-fill any gaps between boards exceeding 3mm. Use moisture resistant plasterboard to wet areas.  
NOTE: Pitched roof construction to achieve a maximum U-Value of **0.18W/m<sup>2</sup>K**.

**TIMBER CLADDED WALLS WITH SIPs INTERNAL STRUCTURE**  
External wall comprising of horizontally installed (vertically installed on annex) weather treated Douglas fir 100x 25mm cladding panels with 5mm spacings fixed back to treated softwood cladding battens installed at an opposite orientation. Supporting battens fixed back to Kingspan 142mm TEK structural insulated panel (SIP) (or similar approved) forming internal leaf structure with YBSinsulation Breather Foil-FR (or similar approved) foil faced breathable membrane dressed between external SIPs face and cladding battens. Suitable VCL to be installed between SIPs and internal plasterboard backing support.  
NOTE: Wall construction to achieve U-Value of **0.19 W/m<sup>2</sup>K**.  
NOTE: To reduce cold bridging ensure that the SIPs panel butts and joins to the roofing insulation to form continuous thermal barrier.

**4 Annex West Elevation**  
BC201 Scale - 1 : 50



**EXPOSED STRUCTURAL TIMBER ELEMENTS**  
All exposed structural timber elements to be suitable treated Douglas fir strictly to fabricator's detail and specification.

**GLAZING ELEMENTS OF TIMBER FRAME CONSTRUCTION**  
All glazing forming part of the exposed timber frame construction and bespoke timber feature windows to bedrooms to be sealed double glazing units fabricated to suit by the glazing supplier. Glazing to be mounted within a cut rebate within the timber with a 5-6mm tolerance to allow for natural movement. Units to be sealed with expanding adhesive foam or EPDM sealing strips. Seasoned timber capping board cut to the same width as frame positioned to the external face to conceal glazing connections and to present frameless aesthetic.