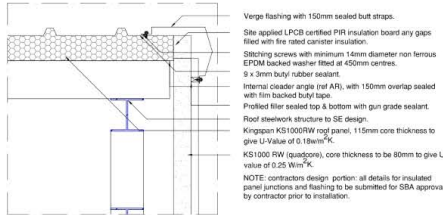
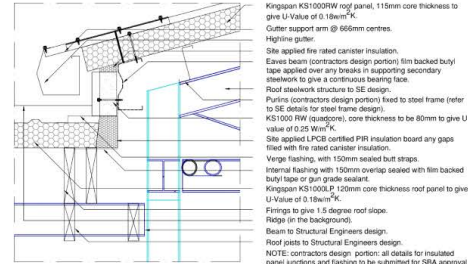


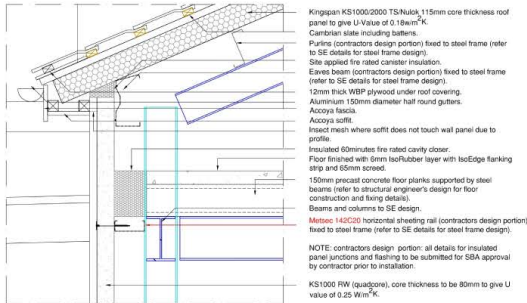
Detail U2-B  
1:10



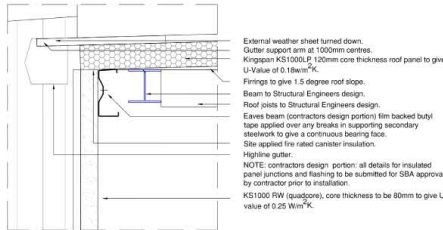
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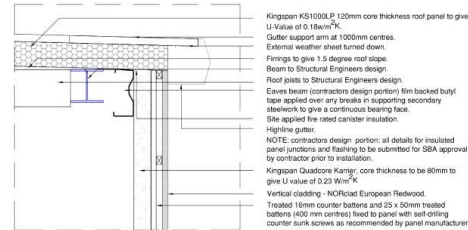
Detail U2-I  
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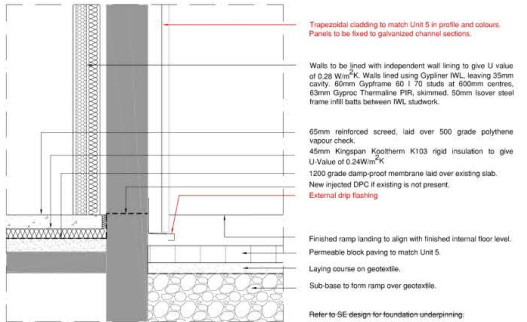
Detail U1-I  
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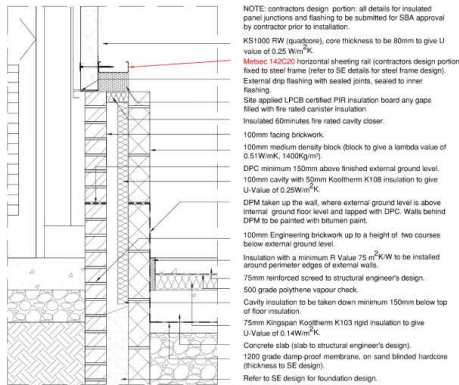
Detail U2-A  
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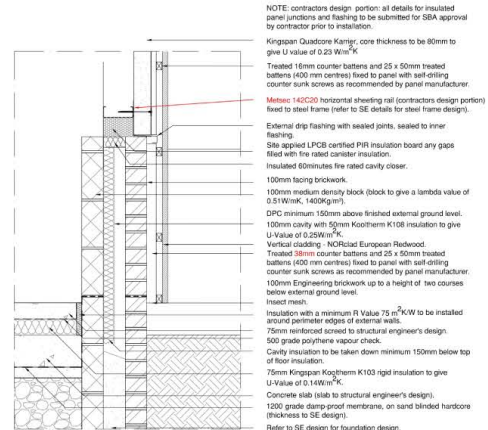
Detail U2-C  
1:10



Detail U7-A  
1:10



Detail U2-E  
1:10



Detail U2-D  
1:10

Kingspan KS1000RW roof panel, 115mm core thickness to give U-Value of 0.18Wm<sup>2</sup>/K.  
Gutter support arm @ 600mm centres.  
Highline gutter.  
Site applied fire rated carter insulation.  
Site applied fire rated carter insulation (fire backed butyl tape applied over any breaks in supporting secondary steelwork to give a continuous bearing face).  
Roof steelwork structure to SE design.  
Purlins (contractors design portion) fixed to steel frame (refer to SE details for steel frame design).  
KSI1000 RW (quadcore), core thickness to be 80mm to give U-Value of 0.25 Wm<sup>2</sup>/K.  
Site applied LPCB certified PIR insulation board any gaps fixed with fire rated carter insulation.  
Verge flashing, with 150mm sealed butt straps.  
Internal flashing with 150mm overlap sealed with film backed butyl tape or gun grade sealant.  
Kingspan KS1000/P, 120mm core thickness roof panel to give U-Value of 0.18Wm<sup>2</sup>/K.  
Firings to give 1.5 degree roof slope.  
Ridge (in the background).  
Beam to Structural Engineers design.  
Roof pails to Structural Engineers design.  
NOTE: contractors design portion: all details for insulated panel junctions and flashing to be submitted for SBA approval by contractor prior to installation.

Kingspan KS1000/P, 120mm core thickness roof panel to give U-Value of 0.18Wm<sup>2</sup>/K.  
Gutter support arm at 1000mm centres.  
External weather sheet turned down.  
Firings to give 1.5 degree roof slope.  
Beam to Structural Engineers design.  
Roof pails to Structural Engineers design.  
Eaves beam (contractors design portion) fire backed butyl tape applied over any breaks in supporting secondary steelwork to give a continuous bearing face.  
Site applied fire rated carter insulation.  
Highline gutter.  
NOTE: contractors design portion: all details for insulated panel junctions and flashing to be submitted for SBA approval by contractor prior to installation.  
Kingspan Quadscore Karier, core thickness to be 80mm to give U-Value of 0.23 Wm<sup>2</sup>/K.  
Vertical cladding - NCR4 rated European Rebound.  
Treated 16mm counter battens and 25 x 50mm treated battens (400 mm centres) fixed to panel with self-drilling counter sunk screws as recommended by panel manufacturer.

NOTE: contractors design portion: all details for insulated panel junctions and flashing to be submitted for SBA approval by contractor prior to installation.  
Kingspan Quadscore Karier, core thickness to be 80mm to give U-Value of 0.23 Wm<sup>2</sup>/K.  
Treated 16mm counter battens and 25 x 50mm treated battens (400 mm centres) fixed to panel with self-drilling counter sunk screws as recommended by panel manufacturer.  
Metasec 140CG20 horizontal sheathing rail (contractors design portion) fixed to steel frame (refer to SE details for steel frame design).  
External drip flashing with sealed joints, sealed to inner flashing.  
Site applied LPCB certified PIR insulation board any gaps fixed with fire rated carter insulation.  
Insulated 60minutes fire rated cavity closer.  
100mm facing brickwork.  
100mm medium density block (block to give a lambda value of 0.51WmK, 1400kg/m<sup>3</sup>).  
DPC minimum 150mm above finished external ground level.  
100mm cavity with 50mm Kooltherm K108 insulation to give U-Value of 0.29Wm<sup>2</sup>/K.  
DPM taken up the wall, where external ground level is above internal ground floor level and topped with DPC. Walls behind DPM to be painted with bitumen paint.  
150mm Engineering brickwork up to a height of two courses below external ground level.  
Insulation with a minimum R Value 75 m<sup>2</sup>/KW to be installed around perimeter edges of external walls.  
75mm reinforced sored to structural engineer's design.  
500 grade polyurethane vapour check.  
Cavity insulation to be taken down minimum 150mm below top of floor insulation.  
75mm Kingspan Kooltherm K103 rigid insulation to give U-Value of 0.14Wm<sup>2</sup>/K.  
Concrete slab (sub to structural engineer's design).  
1200 grade damp proof membrane, on sand finished hardcore (thickness to SE design).  
Refer to SE design for foundation design.



SCALE 1:10