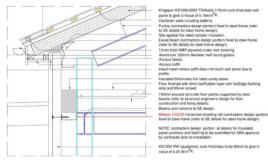
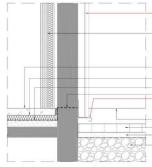


Detail U2-B



Detail U1-I



Detail U7-A



Detail U2-F

Ridge flashing, fixed to Apex dam (LP1), at 450mm centres.

Internal ridge flashing with 150mm overlap sealed with film

Bead of our grade sealant between ridge flashing and Apex

Kingspan KS1000LP 120mm core thickness roof panel to give

ramings to give 1.5 degree root slope. Roof joists of 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.

Apex dam (LP1) bedded on 2 runs of gun grade sealant

inium 150mm diameter half round gutter

Trapezoidal cladding to match Unit 5 in profile and colours Panels to be fixed to galvanized channel sections.

Walls to be lined with independent wall lining to give U value

of 0.28 Wim<sup>5</sup>K. Walls lined using Oypiner NWL, leaving 35mm cavity. 60mm Gypframe 60 I 70 studs at 600mm centres. 63mm Gyproc Thermaline PIR, skimmed. 50mm Isover steel frame intil batts between NWL studwork.

65mm reinforced screed, laid over 500 grade polythene

45mm Kingspan Kooltherm K103 rigid insulation to give U-Value of 0.24Wim<sup>2</sup>K 1200 grade damp-proof membrane laid over existing slab.

Finished ramp landing to align with finished internal floor level.

New injected DPC if existing is not present.

Permeable block paying to match Unit 5

Sub-base to form ramp over geotextile

Refer to SE design for foundation underpinning:

vapour check.

External drip flashing

Laying course on geotextile.

with sealed butt strang

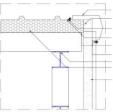
U-Value of 0.18w/m<sup>2</sup>K.

dom il P1

Turn up external weather sheet at ridge

Site applied fire rated canister insulation

U-Value of 0.18w/m<sup>-</sup>K. Firrings to give 1.5 degree roof slope.



Gutter support arm at 1000mm centres.
Kingspan KS1000LP 120mm core thickness roof panel to give
U-Value of 0.18wim<sup>2</sup>K. Firrings to give 1.5 degree roof slope. Beam to Structural Engineers design. Roof joists to Structural Engineers design Eaves beam (contractors design portion) film backed butyl tape applied over any breaks in supporting secondary steelwork to rive a continuous hearing face. Site applied fire rated canister 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. KS1000 RW (quadcore), core thickness to be 80mm to give U value of 0.25 W/m<sup>2</sup>K.

Verne flashing with 150mm sealed butt straps

EPDM backed washer fitted at 450mm centres 9 x 3mm butyl rubber sealant.

filled with fire rated canister insulation.

Doof stockwark stousture to CE ducion Kingspan KS1000RW roof panel, 115mm core thickness to give U-Value of 0.18wim<sup>2</sup>K.

Site applied LPCB certified PIR insulation board any gaps

Stitching screws with minimum 14mm diameter non ferrous

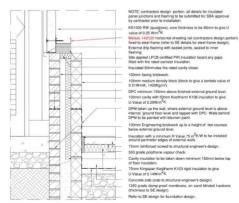
Internal cleader angle (ref AR), with 150mm overlap sealed with film backed butyl tape.

Profiled filler sealed top & bottom with our grade sealant.

KS1000 RW (quadcore), core thickness to be 80mm to give U

NOTE: contractors design portion: all details for insulated panel junctions and flashing to be submitted for SBA approval by contractor prior to installation.

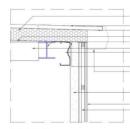
Detail U2-A



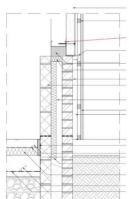
Detail U2-E



Detail U2-I 1:10



Detail U2-C



Detail U2-D 1:10

Kingspan KS1000LP 120mm core thickness roof panel to give U-Value of 0.18w/m<sup>2</sup>K. Gutter support arm at 1000mm centres. External weather sheet turned down. Firrings to give 1.5 degree roof slope. Beam to Structural Engineers design Roof joists to Structural Engineers design. Eaves beam (contractors design portion) film backed butyl tape applied over any breaks in supporting secondary steelwork to give a continuous bearing face.

Site applied fire raied canister 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 Quadcore Karrier, core thickness to be 80mm to give LI value of 0.23 Wim<sup>2</sup>K

Kingspan KS1000RW roof panel, 115mm core thickness to give U-Value of 0.18wim<sup>2</sup>K.

Roof steelwork structure to SE design.

Purins (contractors design portion) fixed to steel frame (refer to SE details for steel frame design).

KS1000 RW (quadcore), core thickness to be 80mm to give U value of 0.25 W/m<sup>2</sup> K.

Site applied LPCB certified PIR insulation board any gaps

Internal flashing with 150mm overlap sealed with film backed

butyl tape or gun grade sealant.
Kingspan KS1000LP 120mm core thickness roof panel to give
U-Value of 0.18wim<sup>2</sup>K. Firrings to give 1.5 degree roof slope.

Gutter support arm Ø 666mm centres

Site applied fire rated exciptor inculation Eaves beam (contractors design portion) film backed butyl tape applied over any breaks in supporting secondary steelwork to give a continuous bearing face.

filled with fire rated conister insulation

Roof joists to Structural Engineers design Not past 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.

Ridge (in the background) Beam to Structural Engineers design.

Verge flashing, with 150mm sealed butt straps

Vertical cladding - NOBclad European Bedwood 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 Quadcore Karrier, core thickness to be 80mm to give U value of 0.23 W/m<sup>2</sup>K

Freated 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 manufacture

Metsec 142C20 horizontal sheeting 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

Site applied LPCB certified PIR insulation board any gaps filled with fire rated canister insulation. Insulated 60minutes fire rated cavity closer

100mm facing brickwork. 100mm medium density block (block to give a lambda value of 0.51W/mK, 1400Kg/m²). DPC minimum 150mm above finished external ground level. 100mm cavity with 50mm Kooltherm K108 insulation to give

100mm cavity with 50mm Kooltherm K108 insulation to give U-Value of 0.25W/m<sup>4</sup>K. Vertical cladding - NORclad European Redwood. Treated 38mm counter batteris and 25 x 50mm treated batteris (400 mm centres) fixed to panel with self-diffing counter sunk scriews as recommended by panel manufacturer. 100mm Engineering brickwork up to a height of two courses below external ground level.

Insulation with a minimum R Value 75 m<sup>2</sup>K/W to be installed around perimeter edges of external walls. 75mm reinforced screed to structural engineer's design. 500 grade polythene vapour check. Cavity insulation to be taken down minimum 150mm below too

of finor insulation 75mm Kingspan Kookherm K103 rigid insulation to give U-Value of 0.14W/m<sup>2</sup>K. Concrete slab (slab to structural engineer's design), 1200 grade damp-proof membrane, on sand blinded hardcore (thickness to SE design).

Refer to SE design for foundation design

