

SECTION 4

SCHEDULE OF WORKS

Preliminary inspections:

Prior to commencing works on site, and ordering of materials – contractor is to undertake a detailed survey to establish the full thickness of the existing roof covering and insulation to verify the details as specified and in particular the roofing insulation thicknesses and falls can be achieved.

Note: The roof is divided into 4 areas on different levels as shown on plans.

Roof level 1. (High level roof behind brick parapet – approx. 52 sqm)

Strip existing roof covering of roofing felt and asphalt including insulation, isolation underfelts upstands and the like. Retain the existing lead cover flashing around the perimeter parapet walls.

Clean roof to remove all loose/deleterious material.

Provide and lay new waterproof system comprising:

20mm 2 coat Permaphalt, on;

IKO black sheathing felt on;

Enertherm tapered PIR insulation board to falls as indicated on drawing. Insulation thickness to be 50mm increasing to 170mm. Lay to fall toward west side of building and form a 'back gutter' as indicated- again laid to falls (perpendicular to main roof fall) toward roof outlet positions shown. On;

IKO systems SA VCL. (Self -adhesive vapour control layer) on;

IKOpro self-adhesive bitumen primer

From skirting upstand around roof perimeter as previously described.

Dress asphalt through parapet wall into roof outlets, Apply bonding agent to all brick work that is to receive asphalt.

Supply and fit new code 5 lead chutes at drainage points (2 nbr) dressing into external hoppers. The lead is to be set into a rebate to prevent thinning of the Permaphalt. Wire brush and apply light brush application of IKOpro high bond primer and allow to dry. Form Permaphalt bull nosed edge to primed lead chute.

Following sand rubbing of the asphalt finish apply 2 coats of solar reflective paint – Solarflect or equivalent, white.

Copings:

Remove existing failed jointing compound from between coping stones around roof perimeter.

Clean joints and apply primer. Soak joint with water prior to pointing.

Fill joint with new gun injected pointing mortar – Cempoint or similar. Ensure joints are fully filled and struck flush.

Roof level 2. (West side – approx. 16sqm).

Strip existing asphalt roof covering and associated insulation, upstands and details. Include for removal of the timber edges batten, fascia and guttering.

Prepare roof deck to receive new waterproofing.

Provide and lay new roof waterproofing system as follows.

20mm 2 coat Permaphalt roofing, on;

IKO Black Sheathing Felt, laid loose on;

Enertherm tapered PIR insulation board to falls as indicated on drawing. Insulation thickness to be 40mm increasing to 70mm on:-

IKO systems SA VCL. (Self -adhesive vapour control layer) on

IKOpro self-adhesive bitumen primer.

Form upstand detail at wall abutment (fig 6 IKO design guide) and eaves/apron detail (fig 15 IKO design guide).

Form eaves detail over new edge batten, fascia and drip in 3 coat work, on expanded metal lath on black sheathing felt laid over the timber/insulation junction. Dress asphalt down over drip bead.

(NB – no edge trim to be used for eaves detailing).

At southern edge of roof form verge detail (approx. 2.0m length) – timber edge batten to be 38 to 70mm to follow tapered insulation. Form water check and drip detail over new fascia and drip batten.

Following sand rubbing of the asphalt finish apply 2 coats of solar reflective paint – grey.

To roof perimeter provide and fix treated timber edge batten, 38*100mm, and 25* 200 WBP ply fascia, and 25*50 treated softwood drip batten.

Provide and fix new guttering along eaves (approx. 8m) in 100mm ½ round black plastic. Floplast 112mm half round 'cast iron' effect. Lay to falls to single outlet at s.w. corner, and provide and fix 68mm downpipe with shoe outlet to dress into lower level gutter draining roof area 4.

Roof level 3. (Former plant room approx. 5 sqm).

Strip existing roof waterproofing system and associated details as above.

Provide and lay new roof waterproofing system as follows:

20mm 2 coat Permaphalt, on;

1layer of IKO black sheathing felt laid loose and staggered with 50mm laps.

Form upstand and eaves details as previously described.

Form eaves/apron detail as previously described.

In addition to roofing works undertake the following repairs:-

Remove existing fascia board from roof perimeter. Provide and fit new fascia – 25mm *150mm WBP ply. Apply 2 full coats Jotun Demidek stain finish in black.

Remove pair of doors to former tank room on south elevation, including frame. Fabricate, supply and fix in position new frame and pair of doors to match existing. Overall size 1650w by 1350h.

Apply 1 coat Jotun Demdekk visir primer followed by 2 coats Jotun Demidekk Ultimate stain finish in (colour TBA).

Roof level 4. (South side of building approx. 30 sqm).

Strip existing roof waterproofing system and associated details as above. Include for removal of guttering, downpipes, fascia and stop edge batten.

Provide and lay new roof waterproofing system as follows:

20mm 2 coat Permaphalt, on;

IKO Black Sheathing Felt on;

Enertherm tapered PIR insulation board to falls as indicated on drawing. Insulation thickness to be 40mm increasing to 70mm on:-

IKO systems SA VCL. (Self -adhesive vapour control layer) on;

IKO self-adhesive bitumen primer

Form upstand at abutment as previously described.

Form eaves detail over new edge batten, fascia and drip in 3 coat work, on expanded metal lath on black sheathing felt laid over the timber/insulation junction. Dress asphalt down over drip bead

To roof perimeter provide and fix treated timber edge batten, 38*100mm, and 25* 200 WBP ply fascia, and 25*50 treated softwood drip batten.

Provide and fix new guttering along eaves (approx. 8m) in 100mm ½ round black plastic. Lay to falls to single outlet at s.w. corner, and provide and fix 68mm downpipe with shoe outlet to dress into lower level gutter.

Remove existing fascia from roof perimeter. Provide and fix new 25*200mm WBP ply fascia. Apply 2 coats Demidekk black.

Provide and fix new eaves guttering to perimeter. To comprise Floplast Hi-Cap 'cast iron' style 115 guttering with 68mm downpipes.

Provide and fit 2 nbr. 68mm cast iron effect downpipes to discharge into existing gullies.

Provide and fit all associated matching fittings and brackets.

Guarantee:

This specification of works has been prepared in conjunction with IKO technical department.

IKO are able to offer a 20 year guarantee for these works provided they are undertaken using materials specified and works undertaken in accordance with relevant codes of practice and IKO installation instructions.

The contractor must be an IKO registered contractor.

The registered contractor is to apply to IKO for the guarantee and provide same to client.

The relevant reference number to IKO is PHALT 1066.2019/9242.
Project name is Imperial War Museum Duxford, Building 173.