

High Level Plant Room Roofs: Remove chippings / overlay re-use powder coate existing / re-fix lighting protection tape / re-form

Preparation:
Remove debris from roof surface / leafs and general rubbish.
Temporarily remove or divert sundry cables and/or equipment.
All outlets must be protected to prevent debris from entering and causing blockage of downpipes.
Acceptable methods of drying of roof areas, where required, to be agreed with the client prior to the commencement of works.
Primer: apply one layer of QD primer compatible with system installed. Primer applied to all flat areas and upstands.

Roof Construction (to all roof constructions)

Rooflights:
Carefully remove existing rooflights / barrel vaults, complete with all glazing and any ventilation components etc., and cart away. Strip back existing waterproofing from upstands.

Fully waterproof curbs to roofing specification membranes are applied up and across top face.

To fully waterproof curb supply and install triple skin polycarbonate opal diffused rooflights. Units to incorporate PVC Em-Collar, complete with aluminium weathering cowl.

nits to fit to existing raised, flat-topped, water hen raising curbs it is important that raising urb sizes shown in schedule below. rproofed builders' upstand curb. timber is set exactly to overall

Detailing (to all roof constructions)

All detail work to be executed in two layers, the base layer sanded underlay fully bonded in hot bitumen, and the Mineral cap sheet fully bonded by torching. The main sheet area must overlap onto the reinforcing strip by the full 100mm. All overlaps to be fully bonded by torching.

Contractor to ensure they are insured to undertake for the works contained within their tender submission.

In accordance with good roofing practice, undulations in laps can be reduced by cutting a  $45\text{-}\mathsf{degree}$  mitre in the lap of the lower sheet.

General Summary of Works: Remove debris / new rooflight / upstand detail / Replacement rooflights / edge details / rainwater

will deem the with a mi um 20-year ired within the

ed edging / trim round flues as n chute to hopper.

<u>Lightning Protection Tape:</u>
Existing tape on plans removed to allow new works to be undertaken. Re-fix upon completion, ensuring the tape is amended and adapted by a lightning protection system specialist, re-install, test and re-certificate.

emove winders from inside of metal upstands and make good as necessary epair as necessary the head detail of linings after units have been removed.

iring that waterp

Thermal Insulation:
Install PUR insulation thermal insulation (maximum 100mm thick) on above vapour barrier, suitable PU adhesive with end joints staggered.
Contractor to ignore the existing construction and supply a fix a product that gives a minimum K-value of 0.025 W/m·K. Insulation is Contractors choice.

b: High security Screwbolts. Supplied factory fitted as
 The fixing screw is sleeved within the body of the
 oids pressure being exerted on the rooflight glazing as the

Product Reference: Dome & Curb with Rotating Trickle vents or Opening Frame
Type: Dome.
Size: See Plans
Dome Fixing to Curb: High security Screwbolts. Supplied factory fitted as standard to all units. The fixing screw is sleeved within the body of the screwbolt which avoids pressure being exerted on the rooflight glazing as the fixing is tightened
Kerb: PVCu Vertical Curb, Height 150mm, U-Value (W/m2k) 1.00
Material: PVCu - white self finish
Glazing details: Polycarbonate triple skin dome. Thermal Transmission (W/m2k) 1.78. Manufactured in accordance with European standards and hold a CE mark according to EN1873
Other requirements: Hinged Manual Spindle Opening tested and certified according to EN1873-Watertightness (RL1) or Controllable manual rotating trickle vents (RL2) Thermal Transmission European standards and hold

Waterproofing
Install a intermediate underlay, torch or non-torch bonded to insulation. Install One Install a intermediate underlay, torch or non-torch bonded to insulation. Install One layer of high performance mineral cap sheet (20 year insurance backed warranty / guarantee). Laps to be 100mm side and 150mm end, all fully sealed by torching, and pressure rolled with a long handled 15 kg seam roller.

Insulation should be stored inside the contractors site compound area. If outside storage is unavoidable, insulation should be off the ground and covered with a waterproof sheet. Packaging alone cannot under any circumstances be relied upon to provide protection from moisture.

Provide timber edge protection to insulation at perimeters etc. Timber should be of a reduced thickness to the adjacent insulation, to avoid creating a step in the waterproofing.

nged manual Spindle opening labelled RL1 ntrollable Manual Rotating vents labelled RL2 pply 4no. opening poles.

The sizes above are existing rooflight overall sizes over should (more or less) line through internally. approximate sizes only, Contractor to confirm sizes ordering roof lights. es. For the new rooflights to fit y. All dimensions are zes / numbers prior to

Rain Water Outlets:

All existing outlets to be left in position and a 300mm x 300mm sump created using 100mm x 90mm timber with a 50mm fillet on the inside. Insert FRS SFlow SF-95 refurbishment outlet into existing opening and fit new leaf guard. Contractor to confirm the size specified is suitable for existing outlet through metal deck roof prior to ordering outlets.

All outlets to be rodded to ensure there are no blockages.

2no. new outlets form / core drill through existing decking and make internal connection to closest rain water within ceiling voids. Take down ceilings as necessary to make connection and refix as necessary. New junction collars on existing down pipes.

Perimeter Upstand Details:
Apply an insulation stop batten (100mm wide and 10mm thinner than the insulation to

event lap build up) ise all perimeter kerbs to provide a minimum height of at least 50mm above the rface of the new waterproofing. pply & fix new suitable powder coated aluminium trim capping / detail to match isting, but deeper to suit to upstand detail. Dress Cap sheet over upstand detail.

nstall suitable cover flashings to upstand to prepared chase, and point on completion. The to the cladding over the flashing detail this may alter after exposing the existing etail etc. Final detail to be agreed on site with CA.

<u>ck Upstands:</u> Tp off existing waterproofing from upstands, and clean out existing chase. Prime bstrate with bitumen primer and allow to dry completely. t new chase of a minimum 12 x 25mm, at a minimum height of 150mm above roof

over lay insulation and felt. outlets / flashings

ents of the guarantee should provi every year to maintain the part of their tender package. ded within the Contractors tender invalid and will not be

<u>Cable Tray:</u>
The Contractor will need to manoeuvre existing cable tray across the flat roof as the works progress. Repeat same support details to tray.

<u>Cables:</u>
The Contractor will need to ma progress. (not shown on plans)

<u>Soil & Vent Pipes:</u> Form suitable weather collars to flue / soil pipes. Form upstand of 150mm above the surface of the finished waterproofing. Contractor to extent pipes and fix with new cowl. Rod SVP to ensure pipe run is free moving.

<u>Gutters (Detail C):</u> Form gutters to upstands that is not possible to raise the roof level - high level windows / plant room cladding. Cut out felt as necessary to existing flashing details so that suitable flashing detail can be re-formed.

Vapour Barrier:
Apply a bonded vapour barrier. Dress to form edge protection to the at all perimeters, openings and projections.
Vapour barrier to be compatible with system installed.
Note: the existing felt is not suitable to act as a vapour barrier.

1:100 Roof Plan paper size: <u>A</u>1 drawn by:
MC date: May 2020 drawing number: checked: 60

date:

 $\Box$ 

Maintenance Project Redwell Primary School

Rev B 16-07-20 Rev A 15-05-20

Tender Issue

Tender

project number:

north:

6931

revision:

Rooflight specification altered.

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w: www.surshamtompkins.co.uk must work to figured dimensions only. All building and site dimensions, levels and sewer invert levels at connection points are to on site before work starts. This drawing must be read in conjunction with, and checked against, any structural or other specialist owided. Any discrepancy between issued drawings are to be reported to this practice and verified before works starts.

NEW ROOF CONSTRUCTION SCALE 1:10