



Notes:

- This drawing shall not be used for construction purposes.
- Do not scale from this drawing either paper or digital form.
- Installation details are indicative, always follow manufacturers current recommendations.
- For equipment details refer to technical schedules.
- This drawings to be read in conjunction with relevant drawings and technical specifications.
- All duct work to be installed in accordance with DW144.
- Fire dampers must be installed for all the services passing through fire compartments.
- The ventilation shall comply with Part F minimum requirement.
- Volume control dampers (VCDs) must be installed on every branch for system balancing.
- All the ducts shall insulated with foil faced mineral wool.
- Ventilation units shall have silencers at supply, extract, fresh air intake and exhaust outlet to meet the acoustic requirement.
- All the fan coil units shall have pumped condensate drain discharging into a nearest slack, route to be finalised on site.
- External condenser and AHU shall be mounted on anti vibration mounts and acoustic screen/ouave to acoustic consultants details.
- Each room should have local FCU controller linked to a central controller, position of the local controller to be agreed with architect/interior designer.
- Installation details are indicative, always follow manufacturers current recommendations.
- All the pipework and fittings shall be in copper and insulated in accordance with CIBSE guidance with foil faced mineral wool.
- Final position of the controls shall be agreed with architect/clients.
- Connection to water mains must follow WRAS regulations, all fitting must be WRAS approved and be in compliance with local water board recommendations.
- All the pipework and fittings shall be in copper, and shall be insulated in accordance with CIBSE guidance.
- Single Hot water pipe runs to be L8 compliant or temperature maintenance heating tape should be installed.
- All the wash hand basins and showers to be fitted with flow restrictors as advised by the sustainability strategy.
- Minimum gradient shall be maintained as per building regulation Part H. Maximum branch lengths not to exceed building regulation Part H recommendations.
- All the building drainage should be in accordance with BS8301, BS EN 12056-2 and current building regulations.
- Access doors to be provided on all stacks at each floor level above Spill-over level of highest corrected point.
- Above ground drainage pipework and fittings to be PVC-U to BS EN 1329.

SAD Supply Air Duct
EAD Exhaust Air Duct
FD Fire Damper
EAL External Air Louvre
HL High Level
LL Low Level
F/B From Below
F/A From Above
T/B To Below
T/A To Above

Continuous line represents High level duct/pipe run

Dashed line represents low level duct/pipe run

T2	13.02.2025	Tender Issue
T1	05.12.2024	Tender Issue
P2	22.11.2024	Preliminary Issue
P1	30.10.2024	Preliminary Issue
Revision:	Date:	Details:

Status:

TENDER STAGE

Client:

P3r Engineers Ltd
Consulting Building Services
Engineers
70 Cowcross Street
London EC1M 6EU
Telephone 020 7490 7848
www.p3r-engineers.co.uk



Project:

Royal College of Speech & Drama - PTEQ

Drawing Title:

ROOF - Mechanical services layout

Scale:	Drawn by:	Checked by:
1 : 50	VG	AM
Date:	Drawing No:	Revision:
July 2024	2413-M-1902	T1

13/02/2025 11:57:03