



Mechanical Ventilation General Notes:

- Unless stated otherwise all ductwork services shall be colour coded, labelled and identified in accordance with BS 1710 detailing type of service, size and direction of flow.
- All ductwork penetrations through fire rated walls and floors shall be fitted complete with a suitably sized fire damper to achieve the same fire rating as the structure, complete with access panel to allow resetting of the damper(s). Penetrations through fire compartmentation lines shall be made good by the Main Contractor and finished with intumescent sealant.
- Unless stated otherwise all ductwork runs are to be fully insulated with performance foil faced rigid thermost phenolic insulant to be as Kingspan Kooltherm FM Duct Insulation or equal and approved. The Contractor shall allow to provide insulated pipe support inserts on circular ductwork. All ductwork is to be supported with suitable spaced approved fixings hung directly from the soffit or building structure. Under no circumstances shall the weight of the ductwork or grilles be transferred to the suspended ceiling or other services.
- Where fans, ductwork, attenuators, dampers and other ancillaries mounted within risers, ceiling voids, or other spaces that are not directly accessible, the Contractor shall allow to provide suitably sized access panels to facilitate maintenance to the units. The finish of the access panels shall be to the architects specification.
- Allow to provide in-duct attenuation as required to isolate noise breakout from fans into teaching areas.
- The Contractor shall allow to provide suitable access hatches within all ductwork for inspection, cleaning and maintenance of ductwork, dampers and other ancillary equipment. Where duct runs are insulated the insulation and finish shall be adapted to allow sections to be to access hatches.
- Flexible connections shall be used for final connection to grilles and kept to a maximum length of 600mm with no abrupt changes in direction.
- All mechanical ventilation systems shall be commissioned by an approved reputable commissioning specialist to achieve the volumetric flow rates as detailed and shall be witnessed by the Engineer.
- All equipment shall be installed in accordance with relevant manufacturers recommendations and accepted good practice.
- All electrical works associated with the mechanical installation shall be carried out by the Electrical Contractor.
- All ductwork to conform to DW/144.
- Final location of all controllers to be confirmed.
- Fire Smoke Damper recommended manufacturer is Swegon Actonaire . Contractor is responsible for ensure correct products is used and the following is a guide:
 - Fire Smoke Damper - Thermshield FDC

Ventilation Services	
Symbol	Description
	External Louvre
	Supply Diffuser/Grille
	Extract Grille
	Attenuator
	Volume Control Damper
	Fire Damper/Fire & Smoke Damper (as denoted)
	Local User Controller
	Carbon Dioxide Sensor

Abbreviations	
Abbr.	Description
DTLL	Drop to Low Level
RTA	Rise to Above
RFB	Rise from Below
DTB	Down to Below
CV	Ceiling Void
AFFL	Above Finished Floor Level
CTA	Cross Talk Attenuator
PIR	Passive Infrared
VCD	Volume Control Damper
FD	Fire Damper
FSD	Fire & Smoke Damper
AHU	Air Handling Unit
DTG	Door Transfer Grille
R-Air	Return/Extract Air
EXH-Air	Exhaust/Discharge Air
F-Air	Fresh Intake Air
S-Air	Supply Air

Notes

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All works are to be carried out in accordance with the latest British Standards and Codes of Practice unless specifically directed otherwise in the specification.

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
Refer to the relevant Construction (Design and Management) documentation where applicable.

It is assumed that all works on this drawing will be carried out by a competent contractor, working where appropriate to an approved method statement.

PROJECT NOTES

The Contractor shall ascertain the nature of the site, access thereto and all local conditions and restrictions likely to affect the installation. No claim will be considered on the grounds of the lack of site knowledge.

The Contractor shall be responsible for the final coordination of all new and existing services, with the building structure, architecture and fixed furniture and equipment.

The Contractor shall allow for all required changes in height and direction not identified on the drawing and the final setting out of all plant, equipment and services shall be agreed on site with the Engineer.

The Contractor shall be responsible for any temporary access or lifting equipment required to carry out the works

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Rev	Description	By/CHK'd/App'd	Date



Client
Torbay Council

Project
Paignton Academy - SEND

Drawing Title
**Ventilation Services
STEPS - Ventilation Services**

Suitability - Status Code	Suitability - Description	
S4	TENDER	
Internal Project No.	Scale @ A1	Revision
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