

Technical Note

Project Title	Steyping Grammar School		
Subject	Ventilation Statement	Date	09.02.2026
Author	OXM	Our Ref	SRP1121-MET-XX-XX-T-M-5790-Ventilation Statement

1 Ventilation Overview

This document is written to provide an overview of the ventilation strategy for the proposed new Steyping Grammar School buildings. There are 4No. new proposed buildings providing teaching facilities as well as a sports hall.

Where possible, spaces will be ventilated with natural ventilation via openable windows.

Where required to meet the regulations, because spaces are internal, then these will be provided with either hybrid ventilation units or provided with mechanical ventilation to suit the space's requirements.

Where activities or processes create fumes or odours requiring extraction these will be ducted out to roof level with mechanical extract.

2 Natural Ventilation

Wherever possible, spaces will be naturally ventilated via openable windows to outside.

3 Hybrid Ventilation

To comply with Building Regulations for air supply in schools, and also acoustic requirements, teaching spaces will be primarily ventilated through hybrid ventilation units with stack ventilation to roof. These units are mounted onto the windows and use low power fans to encourage fresh air into the space – in the winter this mixes the fresh air at high level to minimise cold draughts, reducing discomfort for occupants whilst maximising air quality.

4 Mechanical Supply and Extract Ventilation

Due to the layout of the building, a number of rooms are totally internal and thus unsuitable for natural or hybrid ventilation. Some rooms have a requirement for a level of ventilation which is not feasible to provide naturally or with hybrid units, such as the Sports Hall and the rooms comprising the main hall. These spaces will be provided with mechanical supply and extract ventilation to provide fresh air and remove stale air.

Wherever possible supply and extract ventilation will be coupled with a heat exchanger to minimise energy demand. Generally, these systems will duct fresh air through the façade, and terminate stale air through the façade also. Some rooms will be served by roof mounted MVHR units that duct fresh air and exhaust air through a riser.

The kitchen is served by an individual extract fan and supply fan to meet the high ventilation demands of these rooms. The kitchen supply and extract requirements have been determined by a kitchen specialist.

5 Mechanical Extract Ventilation

All sanitary spaces will be provided with mechanical extract ventilation to comply with the regulations.

Cleaners' stores and chemical stores will be provided with mechanical extract ventilation to remove fumes and discharge them to atmosphere.

6 Dust and Fume Extraction

Science laboratories will be provided with ducted fume cupboards terminating through the roof to atmosphere as required.

Design technology rooms will be provided with bagged dust extract systems to suit the selected equipment. Any welding or brazing equipment will be provided with ducted extract systems to atmosphere. Any rooms with kiln equipment will be provided a high level extract grille with a low level supply grille.

Food rooms will be provided with additional extract ventilation as required to suit the appliances and activities being undertaken.