

23rd November 2022

Neil Griffiths
Baker Mallett LLP
The Base,
Dallam Lane,
Warrington
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Dear Neil,

Re: Shipyards – Ventilation Strategy.

The Kitchen extraction system is designed around a centralised Kitchen extract fan providing a designated m3/sec volume of extraction based on the cooking appliances under the stainless-steel cooker hood within each kitchen. The extract air is drawn through a series of filtration units prior to point of discharge at roof level, these consist of Electrostatic precipitators and Carbon filtration. The discharge air is terminated at roof level through a high velocity discharge cowl. Ductwork is sized to achieve between 6 & 9 m/sec inline with DW172 regulations for kitchen extraction with melinex lined attenuation sized to achieve any acoustic criteria/restrictions placed on the project.

Make up air is provided by a external louvre where by a centralised supply fan provides 80 – 85% of the extraction rate into the canopies and associated grills, to keep the kitchens under negative pressure.

General occupancy ventilation is provided by means of a mechanical Fans, heater battery and galvanised ducts to provide fresh air for occupants at a rate of 10 ltrs/per person as required by building regulations.

Toilet extraction is provided by means of mechanical fans and galvanised ductwork to each of the cubicles and urinals at a rate of 4-6 ACH.

Heating/Cooling of the space is provided via a number of air source heat pump fan coils and distribution ductwork and grills with condensers located externally to the space at low level as far away from the nearest noise sensitive windows.

Please feel free to contact me should you require any further information.

Yours sincerely



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