



DESIGN & PLANNING WORKS Ltd

May 2023

Ventilation / Extraction Parameters No 6 High Street, Shepton Mallet, BA4 5AN

Proposed Operation	
Combination Café / Restaurant / Shop	
Licensed premises open 7 days per week.	
Café / Restaurant operates from 9.00 am to 11.00 pm	
Cooking: Hob / Oven / Grill	
EMAQ+ Guidance	
Minimum Ventilation Rates	
Maximum internal ambient air temperature: 28° C	
Maximum humidity: 70%	
System noise level between: NR40/45dBA and NR50/55dBA	
System to account for 85% of the required extract flow	
Minimum air change rate: 40 per hour	
Canopy	
Designed to BESA (HVCA) DW/172 Specification for Kitchen Ventilation Systems	
2950 mm long x 1200mm deep. Height 500mm back and 300mm front	
Minimum Velocity requirement: 0.35 m/s	
Material: Stainless Steel	
Size: 250mm wider than the appliance at each end	
Grease separators	
Ductwork	
400mm Diameter anodised.	
Comply with BESA Specification DW/144	
Low Pressure Class A	
Minimum wall thickness: 0.8 mm	
All internal surfaces available for cleaning	
Access panels.	
Main Runs. Supply 6 – 8 m/s Extract 6 – 9 m/s	
Branch Runs. Supply 4 – 6 m/s Extract 5 – 7 m/s	
Extract Fans	
Commercial grade curved centrifugal fans.	
Capable of required airflow + 10% and 20% pressure margin	



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Clear access for cleaning	
Drain holes	
Odour Control	
Particulate and odour control mechanism	
Stack dispersion	
System design: Fine filtration of ESP and Carbon Filtration	
Upgraded odour control required	
Longer Activated Carbon Filter H 597mm x W 597mm x D 597mm	
Discharge Stack	
Not less than 1 m above roof ridge with 15 m of kitchen vent	NP
Not less than 1 m above eaves of building housing kitchen	Poss
Noise Control	
Elta fans – 400mm diameter – 600mm long spigot silencer	
System designed to comply with BS4142: 2014	

Kind regards,

Graham

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