



Dakota, Manchester Airport

Ventilation Statement

On Behalf of
Evans Dakota Hotels Ltd

Revision No: P03

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CONTENTS

1.	INTRODUCTION	1
1.1	General	1
2.	VENTILATION STRATEGY	2
2.1	General Areas	2
2.2	Public Toilets.....	2
2.3	Kitchen.....	2
2.4	Bedrooms	2
2.5	Refuse Store	3
2.6	Laundry.....	3

1. Introduction

1.1 General

The ventilation statement has been prepared on behalf of Evans Dakota Hotels Ltd and is in support of the proposed erection of a 7 storey 154 bedroom hotel, with associated car parking, feature vehicular drop-off area and canopy, service yard, landscaping and highways works to existing access at Bailey Lane, Manchester Airport.

This statement describes the preliminary strategy for providing ventilation services to the proposed hotel development.

2. Ventilation Strategy

2.1 General Areas

The ground floor general areas shall be ventilated via a central heat recovery air handling unit located at roof level. The air handling unit shall be complete with G4 panel filter, F6 bag filter, heat recovery with face and bypass dampers, supply and extract fans, motorised dampers, anti-vibration mounts and attenuators.

Insulated ductwork distribution shall be run within ceiling voids via galvanised mild steel ductwork before rising to roof level.

The indoor air quality of the occupiable rooms shall be monitored in accordance with Approved Document Part F.

2.2 Public Toilets

The ground floor public toilets shall be ventilated by a central twin fan extract fan unit at roof level. The fan shall be complete with anti-vibration mounts, auto changeover panel and attenuators.

Ducted distribution shall be run from the toilets within ceiling voids before rising to roof level.

Supply make up air shall be provided by the general areas ventilation system.

2.3 Kitchen

Extract ventilation shall be provided to the ground floor kitchen by an extract fan unit at roof level. The fan shall be complete with anti-vibration mounts and attenuators.

Fire rated ducted distribution to comply with DW172 shall be run from the kitchen extract canopies within the ceiling voids before rising to roof level. Cleaning access points shall be provided to comply with DW172.

Supply air shall be provided to the ground floor kitchen by a packaged air handling unit. The air handling unit shall be complete with G4 panel filter, F6 bag filter, frost coil, DX heating and cooling coil, supply fan, motorised dampers, anti-vibration mounts and attenuator.

Ducted distribution shall be run within ceiling voids via galvanised mild steel ductwork before terminating to atmosphere.

2.4 Bedrooms

Each bedroom and ensuite shall be provided with supply and extract ventilation via a local mechanical ventilation heat recovery unit located within the ceiling void of the entrance space of each bedroom.

The mechanical heat recovery ventilation unit shall be complete with G3 filters, counterflow heat exchanger with summer bypass, EC motors and boost speed facility with run on timer.

Air intake and exhaust will be via external louvres/air bricks on the façade of each room.

2.5 Refuse Store

The refuse store will be provided with mechanical extract ventilation.

2.6 Laundry

The laundry will be provided with mechanical extract ventilation.