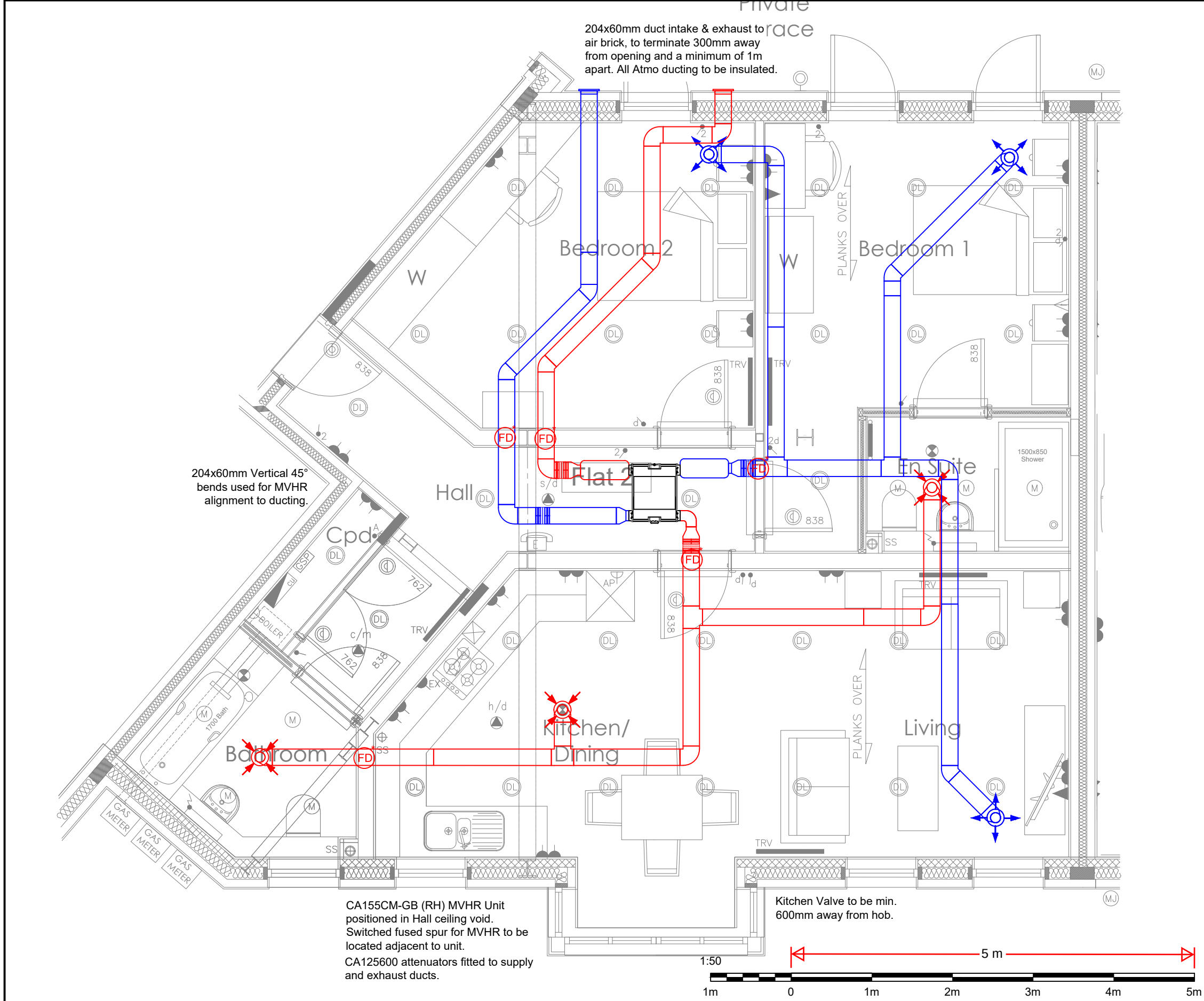




Heat Recovery Legend

The system is designed to operate continuously to provide ventilation rates in line with the requirements of Part F: 2021 (Volume 1).

The unit specific Installation Instructions and Homeowner Guide are supplied with each unit and this product must be installed inline with the manufacturers guidance and Domestic Ventilation Compliance Guide (2010). The Homeowner Guide must be left with the unit.

Ducting

The specified unit must be ducted using one of the duct configurations below and in accordance with your ventilation design.

If joist layouts/sections are not supplied we assume the ceiling void is suitable to accommodate the specified duct. Clear paths through the ceiling/floor void for the duct to be installed are also assumed.

- 204mm x 60mm duct - Minimum ceiling void depth required 85mm.
- 125mmØ rigid plastic duct - Minimum ceiling void depth required 150mm.
- Semi-rigid Comfortube - Minimum ceiling void depth required 85mm.
Comfortube Grilles - Minimum ceiling void depth required 135mm.
- Semi-rigid Flat 51 - Minimum ceiling void depth required 65mm.
Flat 51 Grilles - Minimum ceiling void depth required 105mm.

Ducting should be insulated where it passes through unheated areas and voids (e.g. loft spaces) with the equivalent of at least 25mm of a material having a thermal conductivity of $\leq 0.04 \text{ W/(m.K)}$ to reduce the possibility of condensation forming. Where a duct extends above roof level the section above the roof should be insulated or a condensate trap should be fitted just below roof level.

The MVHR unit should incorporate a condensate drain, which should be connected to the nearest waste water network. Where units are sited in a position that makes the connection of piping to allow a fall, impractical, a condensate pump may be incorporated as part of the installation.

Vertical ducting will require a condensate trap in order to prevent back flow of any moisture into the product (These items are to be purchased through others).

The performance of the ventilation system relies on efficient air distribution and it is vital that duct installation is not left until the last moment when the only means of overcoming obstructions is to install flexible duct where rigid had been specified.

For continuously running ventilation systems we recommend a re-circulating cooker hood complete with carbon filter is installed to degrease the air at the source of pollution, preventing a build up of grease from forming within the ducting.

If terminating to a tile vent consideration should be paid to the effective equivalent area of the terminal to ensure that this does not adversely affect the fan performance. Please refer to the product installation instructions for further details.

[Background ventilation -No background ventilators are required.](#)

FS Fire

For advice on appropriate fire stopping products a fire officer should be consulted and the Building Regulations 2010: Approved Document B (Fire Safety) - Volume 1: Dwelling houses (2019) prior to any order being placed. Fire stopping materials have been quoted for based on fire strategy provided. Extract valves should not be installed directly above a heat source. We suggest a minimum distance of 600mm from the nearest edge.

Wiring

WARNING: Class II appliances must be earthed. All wiring must conform with BS7671: IEE Wiring Regulations. The installation must be carried out by a qualified electrician in accordance with prevailing regulations.

Please refer to the product Installation Instruction for further guidance.

Flat 2 (< 5 m³/(h.m²) at 50 Pa			
Dwelling Details			
Area & Occupants		Whole building ventilation rate	
Floor Area	88.60 m²	Default	25/s
		0.3/s per m²	26.6/s
Bedrooms	2	Minimum ventilation rate	27/s
Extract Normal Speed		Supply Normal Speed	
Kitchen	13/s	Living/Dining	11/s
Bathroom	7/s	Bedroom 1	8/s
EnSuite	7/s	Bedroom 2	8/s
Total Airflow	27/s	Total Airflow	27/s
Extract Boost Speed		Supply Boost Speed	
Kitchen	14/s	Living/Dining	12/s
Bathroom	8/s	Bedroom 1	9/s
EnSuite	8/s	Bedroom 2	9/s
Total Airflow	30/s	Total Airflow	30/s

THESE DRAWINGS ARE FOR INDICATIVE PURPOSES ONLY

Our quotation is specifically based on the indicative design layout provided. For installations where deviations occur, additional materials may be required.

Zehnder Group UK Ltd cannot accept liability for the cost of extra parts required to complete an installation unless in the unlikely event, an error during the quotation process has occurred. Additionally, where changes to our indicative design proposals occur they must be validated to check whether they pose a major risk to performance with the original system designer.

To return items, we require as fitted drawings and a brief explanation to support the request for a credit.

Zehnder Group UK Ltd cannot accept returns unless in the unlikely event, an error during the quotation process has occurred where design layout differs from materials list.

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Flat 2			
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		REV	03