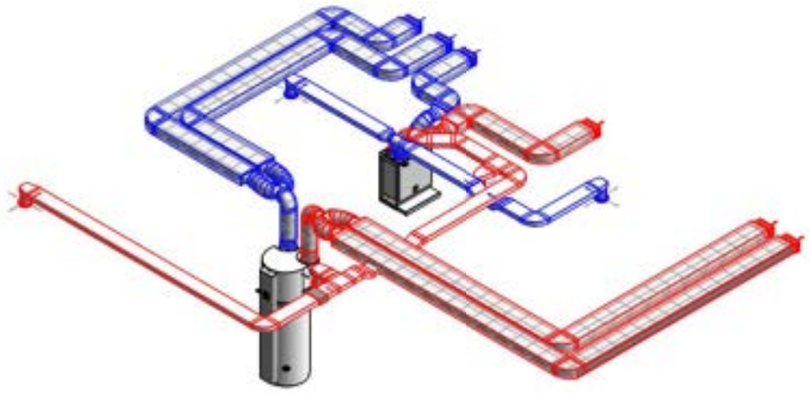
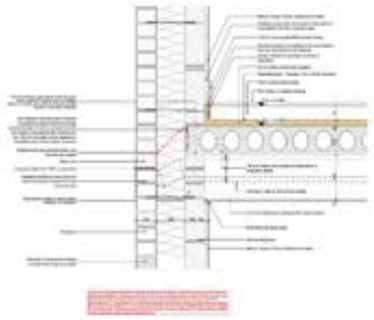




RP 104			
Dwelling Details			**l/s**
Whole Dwelling Ventilation Rate			
Whole dwelling Area m²	58	Default	19
Bedrooms	1	0.3l/s per m²	17.4
		Minimum Continuous Rates	19.0

Extract	High Rates L/S	Extract	Continuous Rates L/S
Kitchen	13.0	Kitchen	8.5
Utility	8.0	Utility	5.2
Bathroom	8.0	Bathroom	5.2
Total Airflow	**29.0**	**Total Airflow**	**19.0**

SUPPLY	High Rates	SUPPLY	Continuous Rates
Living Area	16.1	Living Area	10.6
Bedroom 1	12.9	Bedroom 1	8.4
Total Airflow	**29.0**	**Total Airflow**	**19.0**

Minimum flow rates to Doc F Building Regs 2021 Edition)

NOTES:

THIS SYSTEM PROPOSAL HAS BEEN DESIGNED TO COMPLY WITH THE CURRENT BUILDING REGULATIONS - MEANS OF VENTILATION.

THE SYSTEM MUST BE INSTALLED AND COMMISSIONED WITH GOOD INSTALLATION PRACTICE AND AS PER THE DESIGN SPECIFICATION.

VENT-AXIA CANNOT GUARANTEE SYSTEM COMPLIANCE IF ALTERNATIVE DESIGN IS USED OR INSTALLED BY OTHERS. THE COMMISSIONED SYSTEM MUST COMPLY WITH THE LATEST EDITION I.E. BS7671 WIRING REGULATIONS.

VENT-AXIA WILL NOT BE RESPONSIBLE FOR CONSEQUENCES OUTSIDE OUR CONTROL CAUSED BY THE SYSTEM INSTALLATION E.G. PROPERTY ACOUSTICS, STRUCTURAL INTEGRITY ETC.

THIS DESIGN PROPOSAL HAS BEEN PRODUCED IN GOOD FAITH BUT IS SUBJECT TO APPROVAL BY THE PROJECT CLIENT.

THE DESIGN IS SUBJECT TO COPYRIGHT AND MUST NOT BE ALTERED, AMENDED OR INCORPORATED IN ANYWAY WHATSOEVER, NOR SHALL IT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS PERMISSION OF VENT-AXIA.

UNIT IS TO RUN AT CONTINUOUS TRICKLE WITH BOOST BEING ACTIVATED VIA A TRICKLE / BOOST CONTROLLER AND LOCAL BOOST SWITCHES (EG LIGHTS) IN ALL WET ROOMS. IF SWITCHING VIA LIGHTS, DOUBLE POLE SWITCHED OR RELAYS (E.G. VA 442030) WILL BE REQUIRED. LOCAL SWITCHING NOT SPECIFICALLY REQUIRED FOR INTEGRAL HUMIDISTAT UNITS.

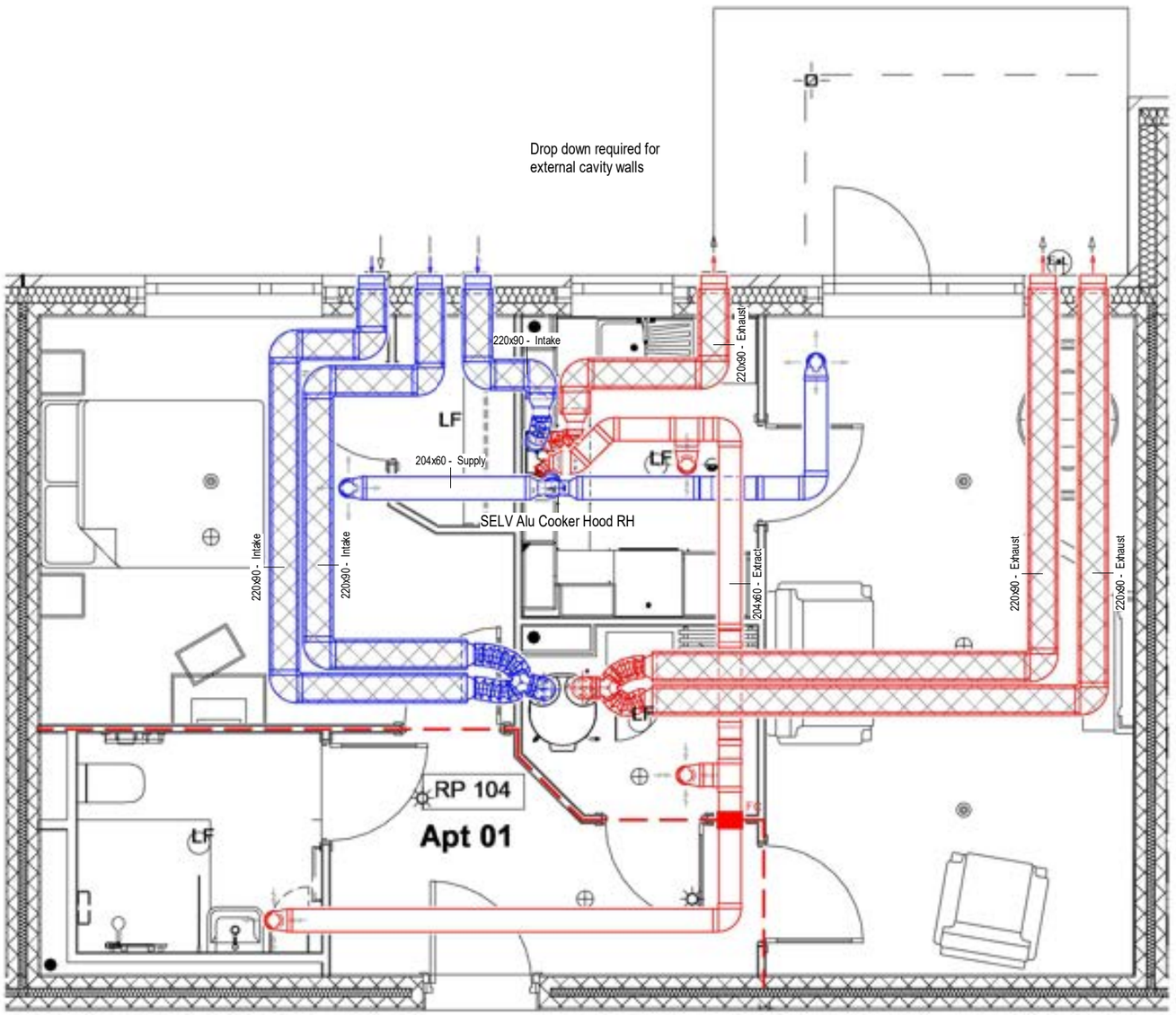
ALL DUCTING IN COLD ROOF SPACE, AND ALL MVHR DUCTING TO AND FROM ATMOSPHERE MUST ALWAYS BE FULLY INSULATED.

ALL VENTILATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH THE DOMESTIC VENTILATION COMPLIANCE GUIDE AND IN CONJUNCTION WITH THE RELEVANT INSTALLATION INSTRUCTIONS.

THE DESIGN ASSUMES THERE IS SUFFICIENT SPACE TO ACCOMODATE THE DUCTING AS SHOWN.

IF NOT USING VENT-AXIA EXTERNAL TERMINATIONS THE FREE AREA MUST BE MIN.
100mm Ducting 7,065mm² free area
125mm Ducting – 11,035 mm² free area
150mm Ducting – 15,535 mm² free area
110x54mm Ducting – 4,770mm² free area
204x60mm Ducting – 10,080mm² free area
220x90mm Ducting – 16,170mm² free area
AT THE TERMINALS TIGHTEST POINT.

Legend	
SELV Kinetic Cooker Hood Heat Recovery Unit	
125mm Extract Valve (RV in Kitchen)	
125mm RV Supply Valve	
125/150mm Circular Ducting (Pre-insulated in cold space)	
204x60mm Flat Ducting (Supply & Extract from MVHR)	
220x90mm Flat Ducting Pre-insulated in to/from exterior	
204x60/220x90mm Fire Sleeve	
220x90mm Double Air Brick	



Rev	Date	By	Description
K	02.09.24	JM	Revised to comments 30.08.24
J	08.08.24	JM	Revised to comments 08.08.24
H	29.07.24	JM	Revised to comments 29.07.24
G	24.07.24	JM	Revised to comments 17.07.24
F	25.06.24	JM	Revised to comments 15.05.24
E	19.04.24	JM	Revised to comments 20.03.24
D	11.03.24	JM	Revised to comments 04.03.24
C	28.02.24	JM	Revised to comments 20.02.24
B	16.02.24	JM	Revised to comments 16.02.24
A	14.02.24	JM	Revised to comments 07.02.24

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For Construction

Project
Durrington (2870)

Drawing
Apartment 1

Date	*Scale*	*Design*
25.01.24	1 : 50 @A3	JM

Drawing No.	*Rev*
CAS17030 _05	K

***DRAWING ONLY TO BE USED FOR THE PURPOSE OF VENTILATION INSTALLATION**