Little Paxton

Noise Mitigation

Verification Report & Welcome Pack

BLOOR HOMES®

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1. Introduction

Introduction

This verification report and welcome pack have been prepared to verify the details associated with the noise mitigation scheme for plots 212–216 and 219–220 at the Bloor Homes development off Great North Road, Little Paxton, associated with application reference 22/01594/OUT.

This document has been prepared to address conditions 19 and 20 of the outline planning permission. The condition wording states:

Condition 19:
"The development shall not be occupied until a verification/validation report, prepared by a suitably qualified consultant, demonstrating full compliance with the noise mitigation scheme (and ventilation scheme where required) approved under condition 18, has been submitted to and approved in writing by the local planning authority."

Condition 20:
"Prior to occupation of the first residential dwelling, details of a Welcome Pack to be provided to all new residents, detailing the sound attenuation and mechanical ventilation measures incorporated within the dwellings as agreed under condition 18, including their function, care, and maintenance, shall be submitted to and approved in writing by the Local Planning Authority. The approved Welcome Pack shall be made available to all occupiers prior to the first occupation of each dwelling."

In conjunction with the retained noise consultant Noise.co.uk, the ventilation supplier Vent-Axia, and our selected window supplier for the development, Solex, it is proposed that the strategy outlined below should be deemed suitable to demonstrate compliance with the approved Noise Mitigation Scheme under approved Condition 18.

By way of this verification report, which confirms the installation of the noise mitigation measures supplied by Vent-Axia and Solex, as recommended within the approved Noise Mitigation Scheme, it can be confirmed that the measures have been appropriately installed in accordance with the manufacturer's instructions.

This report confirms that products identified herewith and installed on plots affected by noise (212–216 & 219–220) act as the verification and welcome information packs, which will be shared with the occupants.

2. Noise Report Extracts

3. Executive Summary

3.1.1. An environmental noise assessment has been carried out for a proposed residential development at Site off Great North Road, Little Paxton, ("Proposed Development").

3.2. Measurement, Assessment and Evaluation

3.2.1. The survey was carried out to BS7445-1:2003[1] and BS7445-2:1991[2] which are covered under our UKAS Accreditation.

3.2.2. The interpretation of the data and the specification of suitable mitigation or treatment are outside the scope of our UKAS accreditation but is covered in our 17025 Quality Management System and reporting procedure.

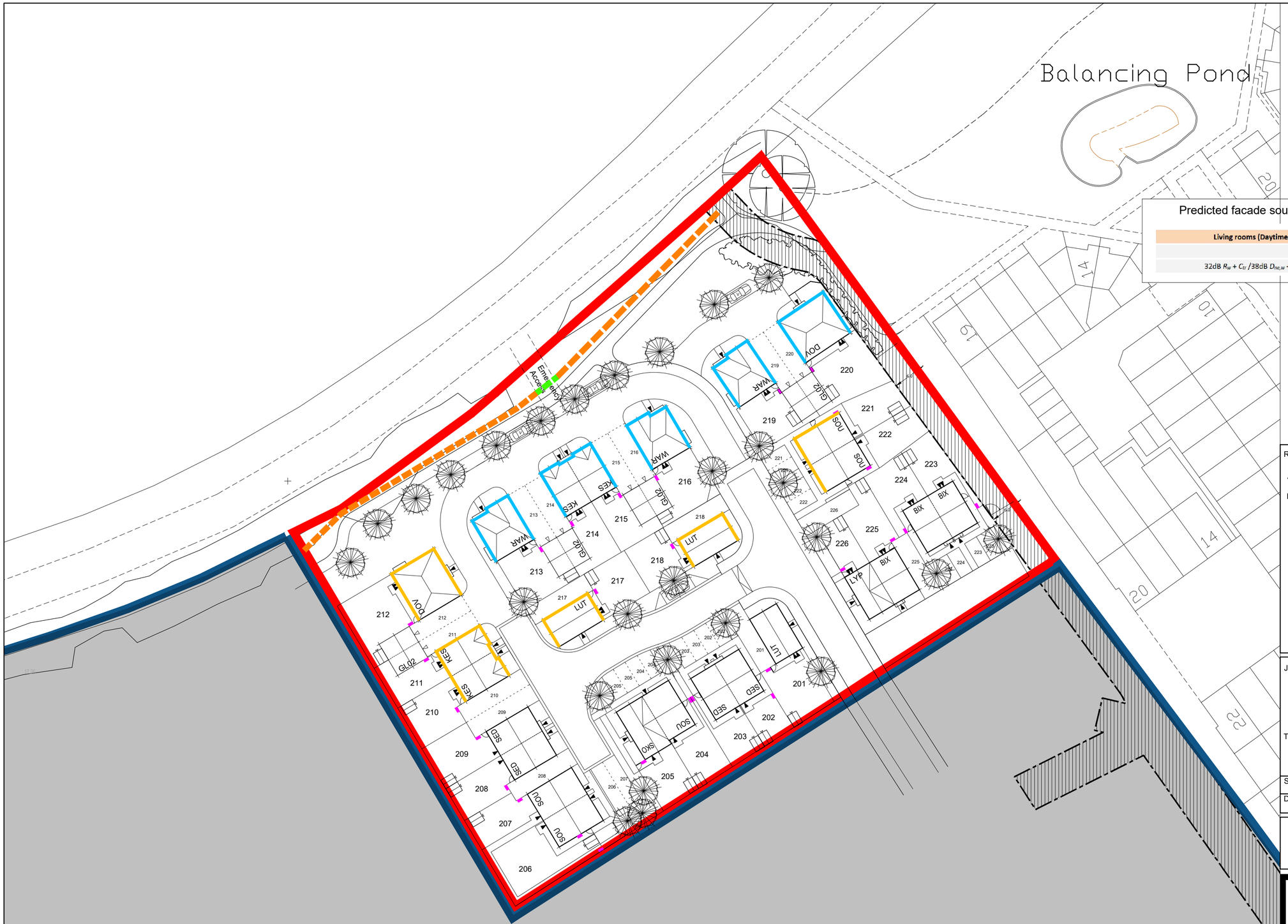
3.3. Noise Mitigation

3.3.1. The single figure glazing and ventilator sound insulation performance predicted to achieve the internal design criteria are summarised in Table 7. It should be noted that these sound insulation performance specifications are based on laboratory sound insulation measurements of the components involved. The glazing performance has been specified in terms of the road traffic corrected weighted sound reduction index, $R_w + C_{tr}$, and the ventilator performance has been specified in terms of the road traffic corrected element normalised level difference $D_{ne,w} + C_{tr}$.

Living rooms (Daytime)	Bedrooms (Night-time)
32dB $R_w + C_{tr}$ /38dB $D_{ne,w} + C_{tr}$	29dB $R_w + C_{tr}$ /35dB $D_{ne,w} + C_{tr}$

Table 1 – Required facade sound insulation (Glazing/Ventilator)

[1] BS7445-1:2003 "Description and measurement of environmental noise – Part 1: Description of quantities and procedures"
[2] BS7445-2:1991 "Description and measurement of environmental noise – Part 2: Guide to the acquisition of data pertinent to land use"



Bedrooms to affected fascades requiring additional ventilation due to windows being closed at night

Enhanced Glazing / Acoustic Trickle Vents required to affected facades.

All information above is taken from the Environmental Noise Assessment Report, produced by Noise.co.uk. Last amended: 12th December 2023.

Report reference: 22141-1-R3

Predicted facade sound insulation specification (Glazing/Ventilator)

Living rooms (Daytime)	Bedrooms (Night-time)
32dB $R_w + C_{tr}$ /38dB $D_{ne,w} + C_{tr}$	29dB $R_w + C_{tr}$ /35dB $D_{ne,w} + C_{tr}$

= 2m High Acoustic Fence

= 2m High Locked Gate to allow for Emergency Access

Revision.

A	2m high acoustic fence with locked gate added.	13/03/25	JWM
B	Purge Ventilation updated to required plots only.	09/04/25	JWM

Job. LITTLE PAXTON EMPLOYMENT LAND

Title. NOISE MITIGATION PLAN

Scale. 1:500 @ A2 | Drawn. HB

Date. APR 2024 | Checked.

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SWAN VALLEY, NORTHAMPTON, NN4 9BS
TELEPHONE 01604 6844000 FACSIMILE 01604 684401

Drawing No. SM05413-SL-200 | Rev. B

11. Noise Mitigation

11.1. Methodology

11.1.1. Based on the measured and predicted free-field sound pressure levels at the worst affected facades, the simple calculation method from BS8233:2014 has been used to determine the sound reduction required to meet the internal ambient noise levels detailed in Table 4 in BS8233: 2014. Standard forms of construction are assumed such that the sound insulation provided by the glazing is likely to be the lowest performing facade element.

11.2. Noise Mitigation Specification

11.2.1. The single figure glazing and ventilator sound insulation performance predicted to achieve the internal design criteria are summarised in Table 7. It should be noted that these sound insulation performance specifications are based on laboratory sound insulation measurements of the components involved. The glazing performance has been specified in terms of the road traffic corrected weighted sound reduction index, $R_w + C_{tr}$, and the ventilator performance has been specified in terms of the road traffic corrected element normalised level difference $D_{ne,w} + C_{tr}$.

Living rooms (Daytime)	Bedrooms (Night-time)
32dB $R_w + C_{tr}$ /38dB $D_{ne,w} + C_{tr}$	29dB $R_w + C_{tr}$ /35dB $D_{ne,w} + C_{tr}$

Table 7 – Predicted facade sound insulation specification (Glazing/Ventilator)

11.3. Glazing and Ventilator Sound Insulation Specifications

11.3.1. The glazing and ventilator performance has been specified based on the performance data provided by Saint-Gobain and Greenwood Airvac. These are suggested configurations and any other glazing and vent combination can be used provided it achieves the minimum performance levels given in Table 7. The example glazing configuration is given in Table 8.

Living rooms (Daytime)	Bedrooms (Night-time)
Saint Gobain 4(6)10	Saint Gobain 4(12)6

Table 8 - example glazing configurations that have suitable documented lab test certification.

11.3.2. Should penetrations be required for ventilation purposes our predicted ventilator sound insulation performance is calculated to complement the above example glazing configuration and are summarised in Table 9[8].

Living rooms (Daytime)	Bedrooms (Night-time)
Greenwood 5000EAW.AC2	Greenwood 5000EAW.AC1

Table 9 - example ventilator configurations..

11.3.3. Given the assumptions used the information in this section should be treated as general guidance only. The acoustic performance of third party products cannot be guaranteed by noise.co.uk.

[8] The specification provides an equivalent area of at least 5000mm^2. It should be checked by a suitably qualified person that this ventilator specification meets the requirements of the current Approved Document F.

3. Ventilation Designs (For Each Affected Plots)

LITTLE PAXTON EMPLOYMENT LAND
PURGE VENTILATION ADDENDUM DOCUMENT

THIS ADDENDUM DOCUMENT IS FOR THE PURGE VENTILATION STRATEGY ONLY
PLEASE REFER TO WORKING DRAWING PACK FOR DMEV (STANDARD) VENTILATION DESIGNS REQUIRED FOR THE REST OF THE PLOT.

COMMERCIAL TO ORDER PURGE VENTILATION FROM THIS PACKAGE ONLY. A LINK TO THE STANDARD VENTILATION IS AVAILABLE ON THE WORKING DRAWING PACKAGE.
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DOVER - M496

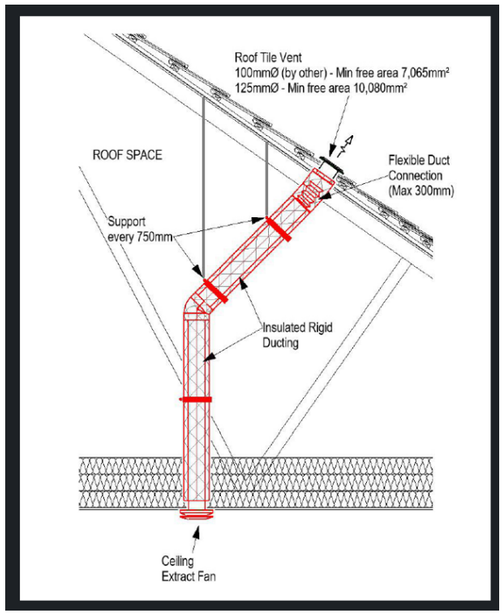
- PLOT 212

01 FIRST FLOOR PLAN

02 TRUSS LAYOUT

03 ELEVATIONS

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	15 L/S	1
2	10 L/S	1
3	35 L/S	2
4	35 L/S	2
5	-	-



PLOT 212

BLOOR HOMES

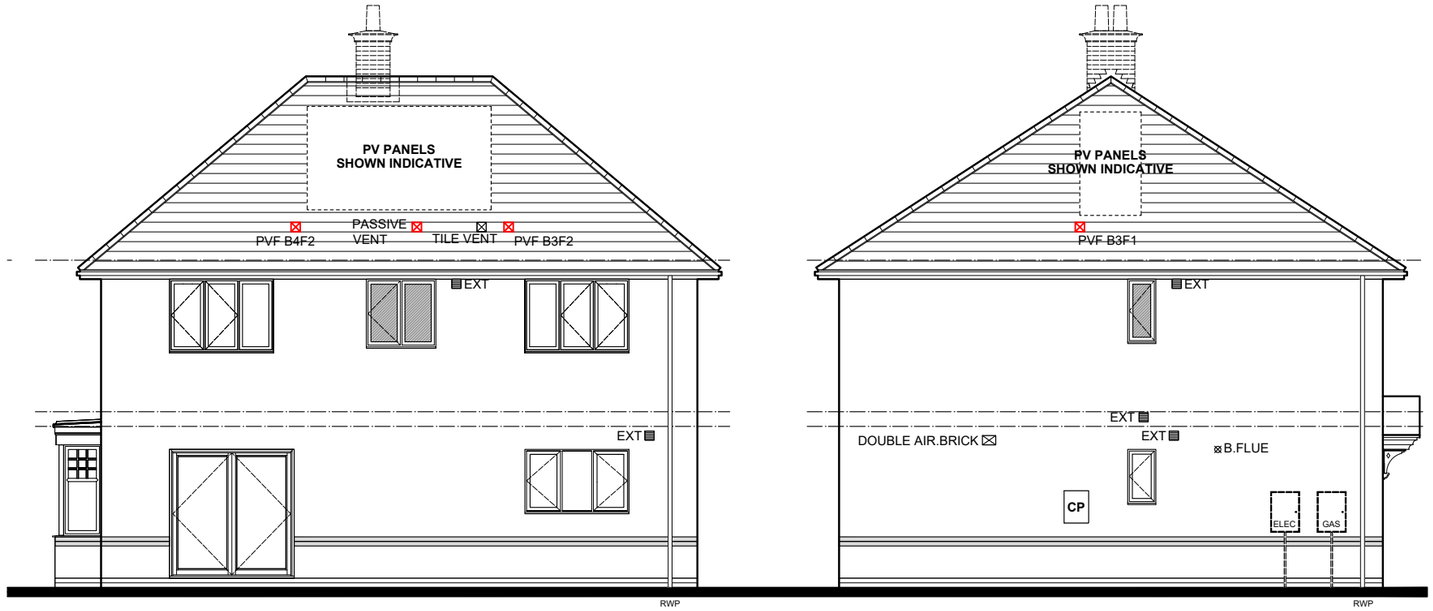
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FRONT ELEVATION

SIDE ELEVATION



REAR ELEVATION

SIDE ELEVATION

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	15 L/S	1
2	10 L/S	1
3	35 L/S	2
4	35 L/S	2
5	-	-

Vent-Axia

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PLOT 212

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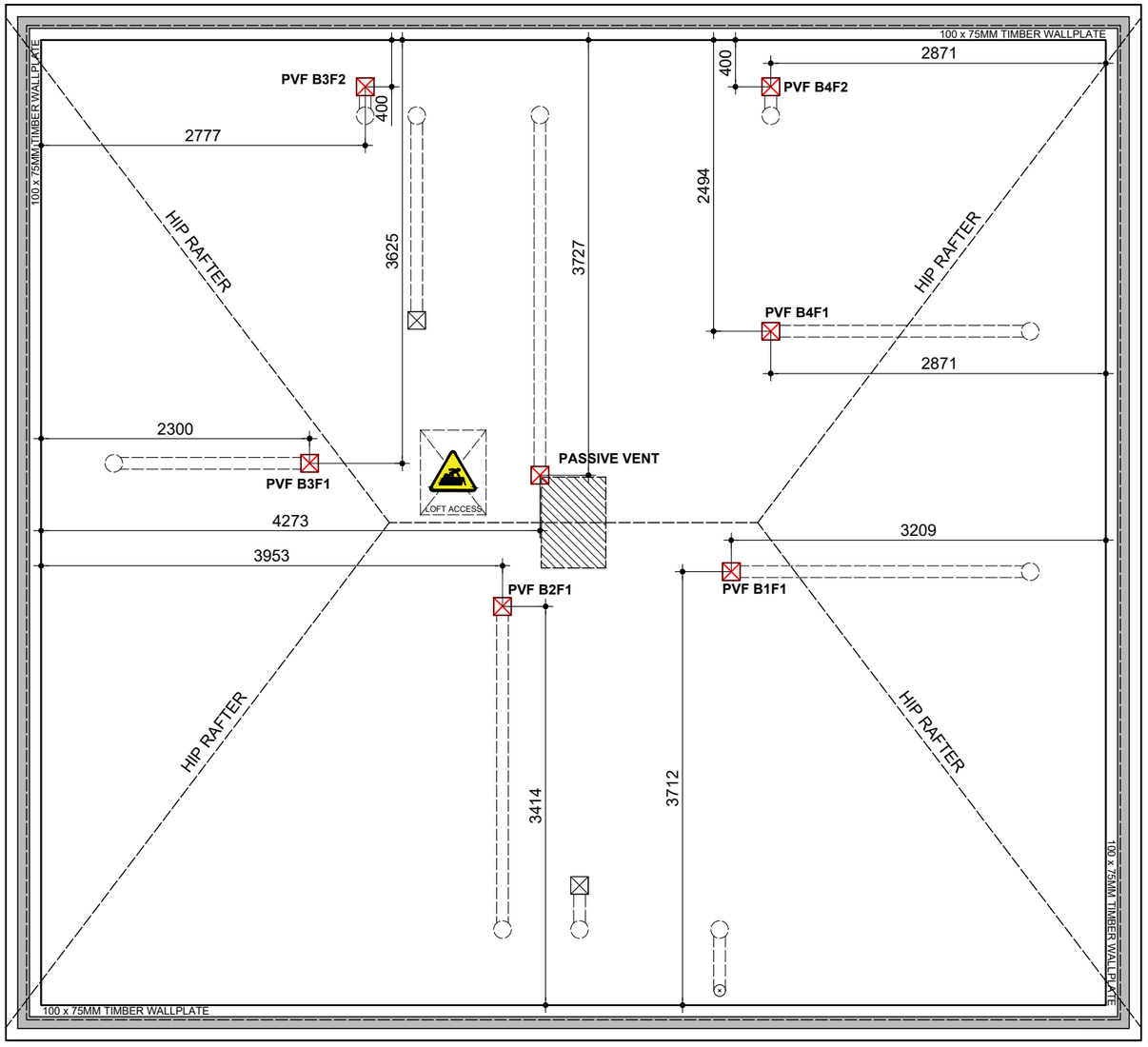
BLOOR HOMES

DRG NO.: LITTLE PAXTON E
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT

NAME: DOVER
DRAWING: ELEVATIONS

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MAIN ROOF 47.5°

TRUSS SETTING OUT

PLOT 212

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	15 L/S	1
2	10 L/S	1
3	35 L/S	2
4	35 L/S	2
5	-	-

Vent-Axia

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REV: 7 JUN 2024

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BLOOR HOMES

NAME: DOVER

DRAWING: TRUSS LAYOUT

DRG NO.: LITTLE PAXTON E

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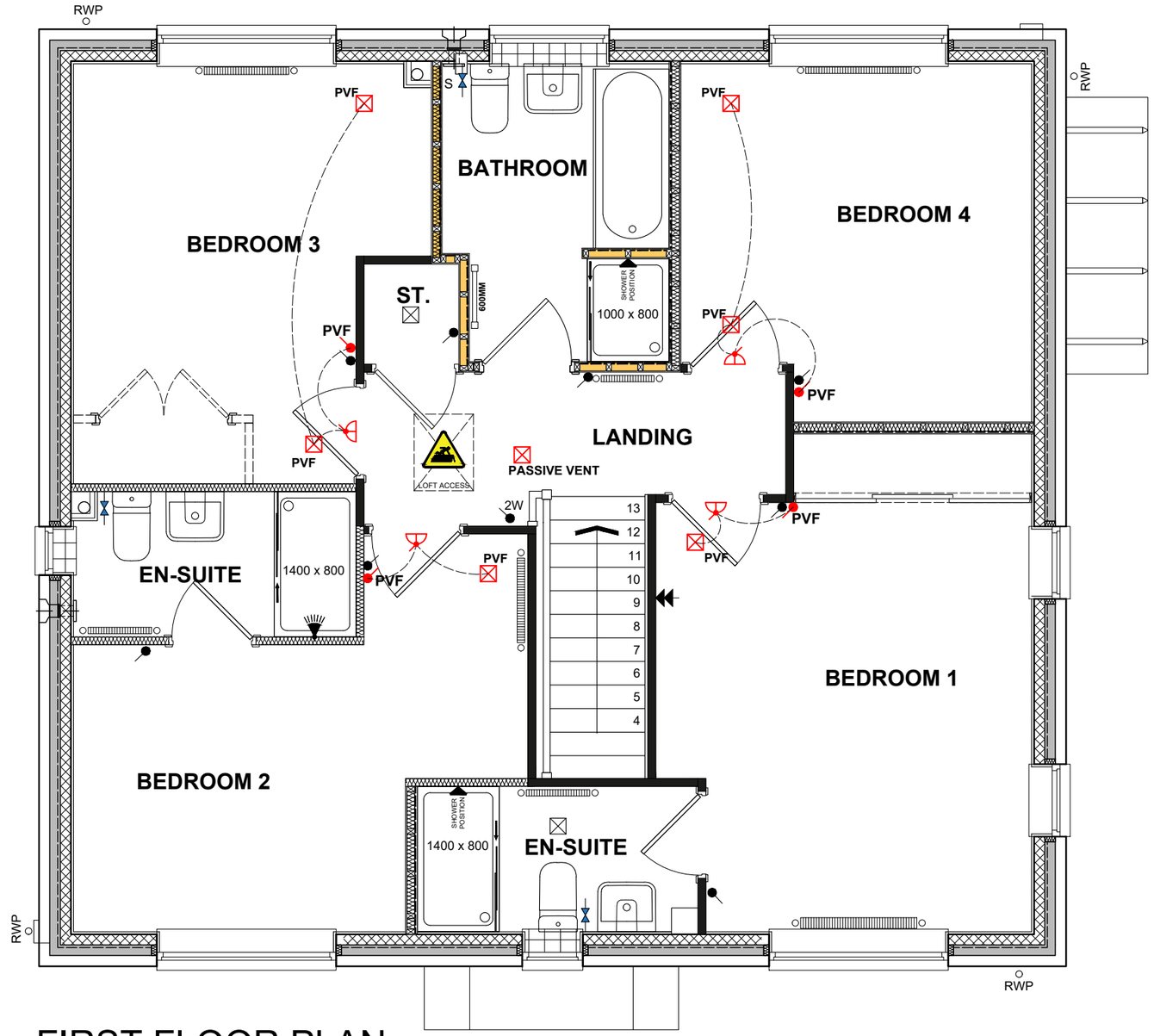
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FIRST FLOOR PLAN

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	15 L/S	1
2	10 L/S	1
3	35 L/S	2
4	35 L/S	2
5	-	-

Vent-Axia

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PLOT 212

REV: 7 JUN 2024

PURGE ADDED TO BED 1, 2 AND 3

BLOOR HOMES

NAME: DOVER

DRAWING: FIRST FLOOR LAYOUT

DRG NO.: LITTLE PAXTON EMPLOYMENT LAND

SCALE: 1:50 @ A3

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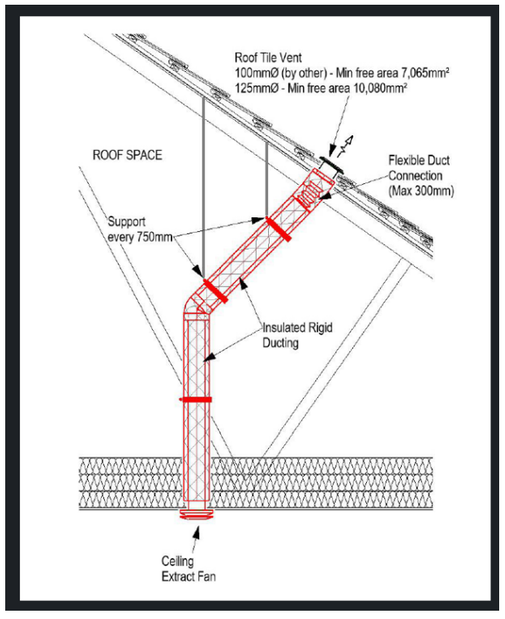
KESWICK - M386/M386-1

- PLOT 210 - 211

01 FIRST FLOOR PLAN
02 TRUSS LAYOUT
03 ELEVATIONS

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	15 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

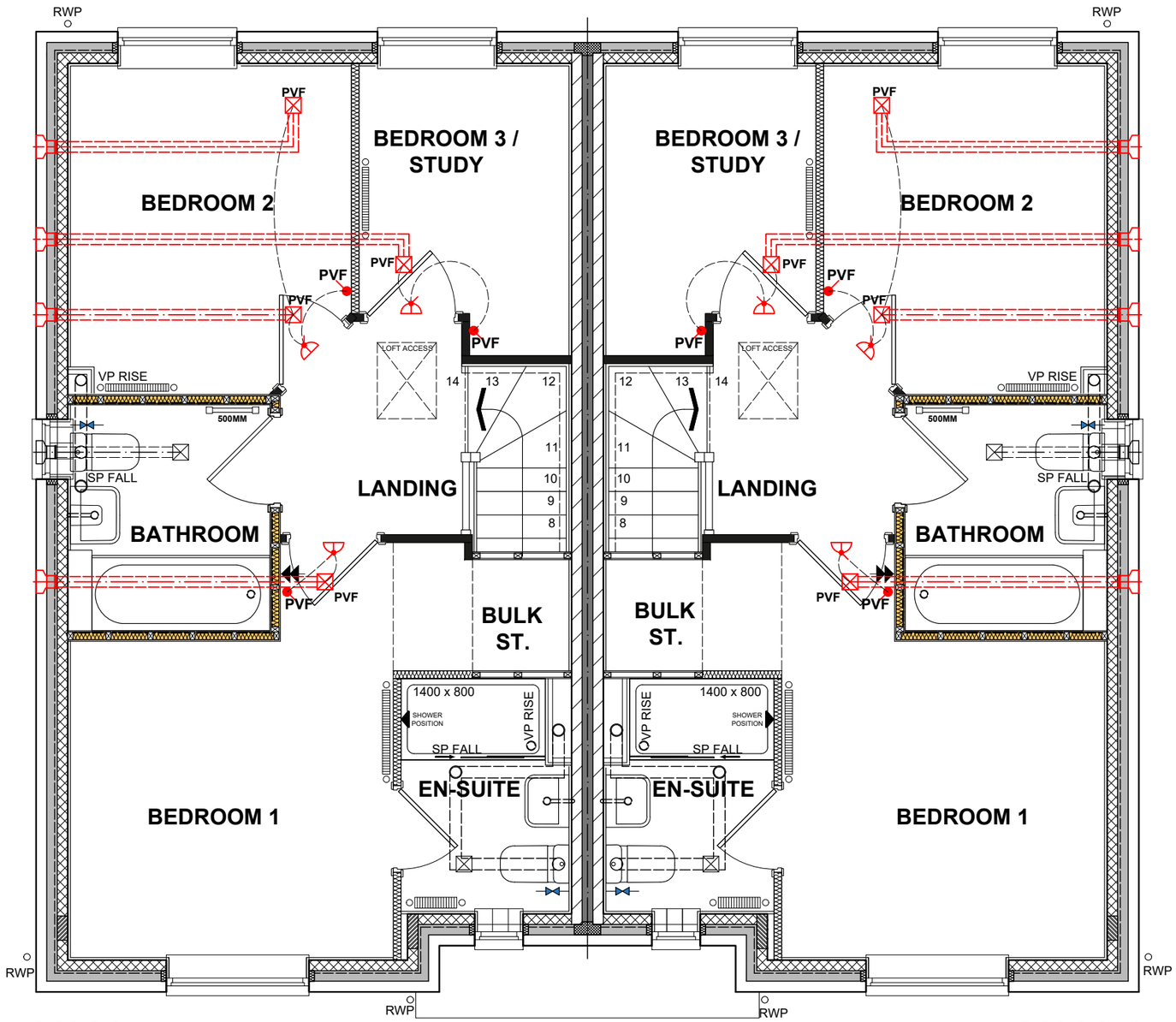


PLOT 210 - 211

BLOOR HOMES

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M386
FIRST FLOOR PLAN

M386-1

PLOT 210 - 211

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	15 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

Vent-Axia

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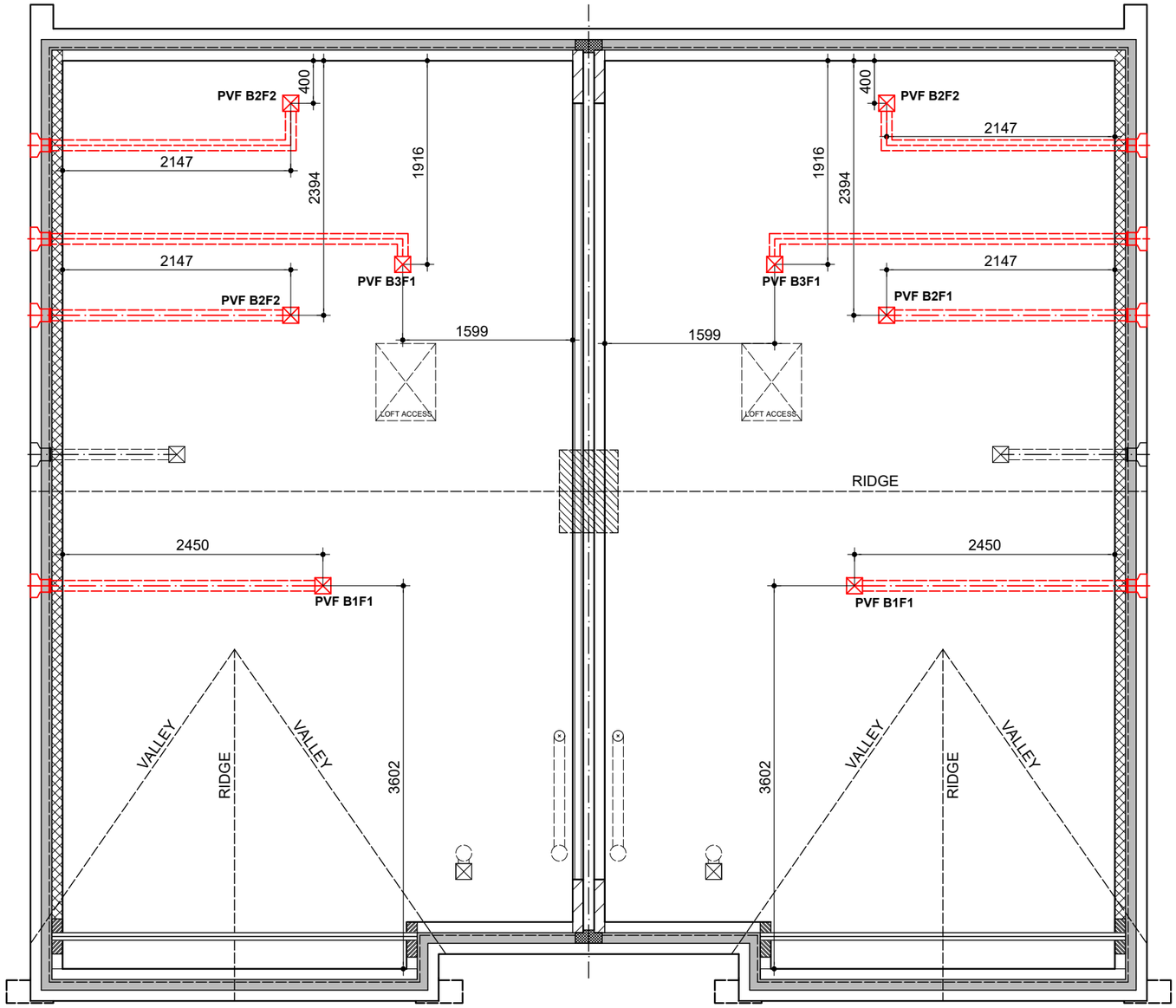
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DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
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DATE: JUN 2024
DRAWN: TS
CHECKED: JT

NAME: KESWICK
DRAWING: FIRST FLOOR LAYOUT

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M386
TRUSS SETTING OUT

M386-1

PLOT 210 - 211

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	15 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

Vent-Axia

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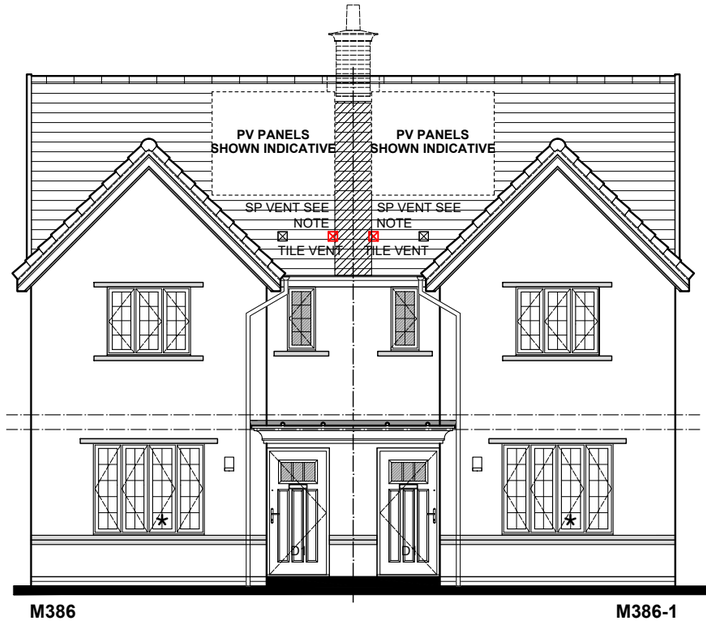
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BLOOR HOMES

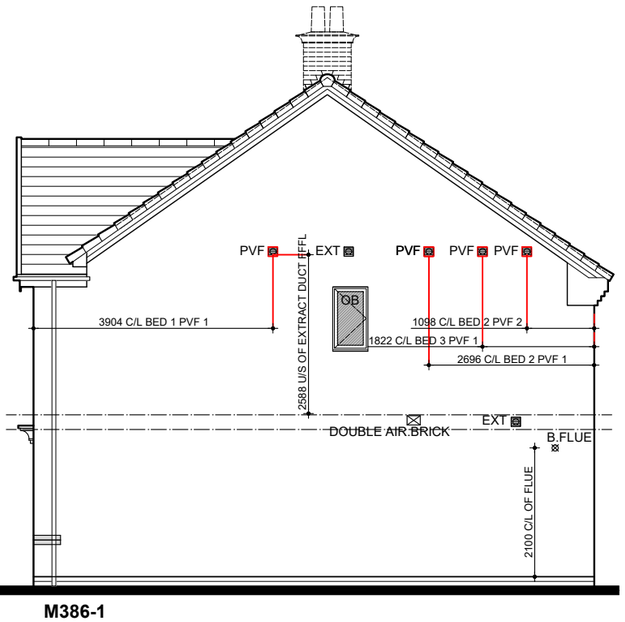
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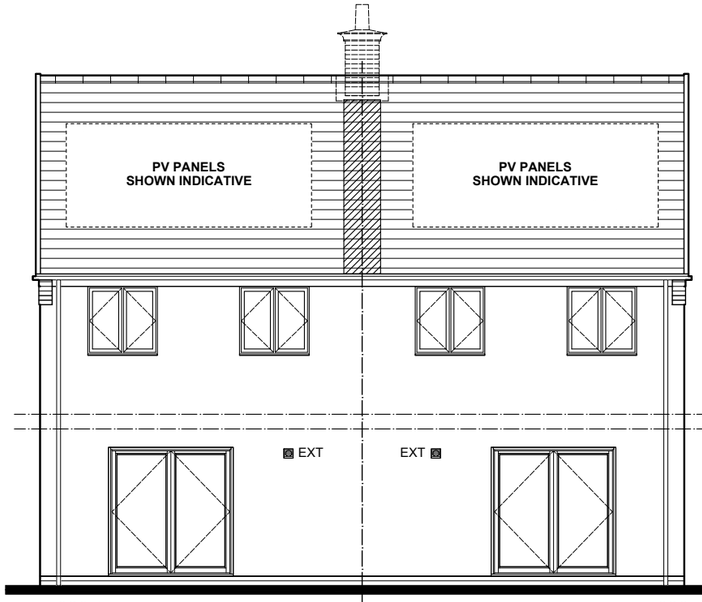
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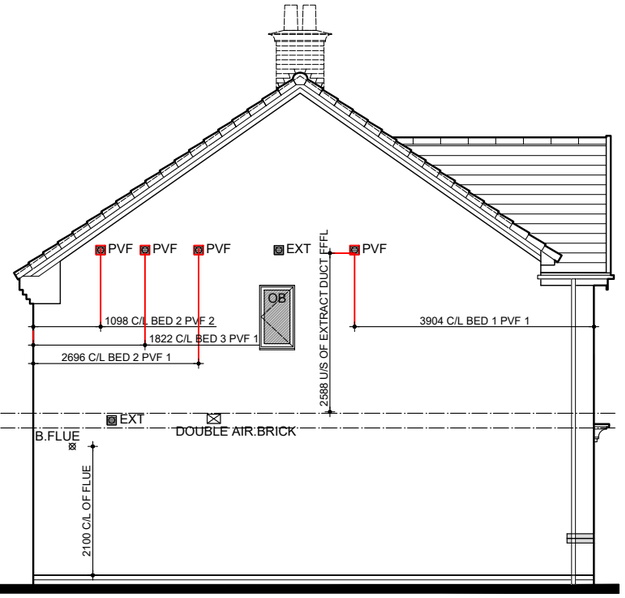
M386
FRONT ELEVATION



M386-1
SIDE ELEVATION



M386-1
REAR ELEVATION



M386
SIDE ELEVATION

PLOT 210 - 211

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	15 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	10 L/S	1
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

Vent-Axia

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REV: 7 JUN 2024
PURGE ADDED TO BED 1, 2 AND 3

BLOOR HOMES

NAME: KESWICK
DRAWING: ELEVATIONS

DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
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LUTTERWORTH - M301-1

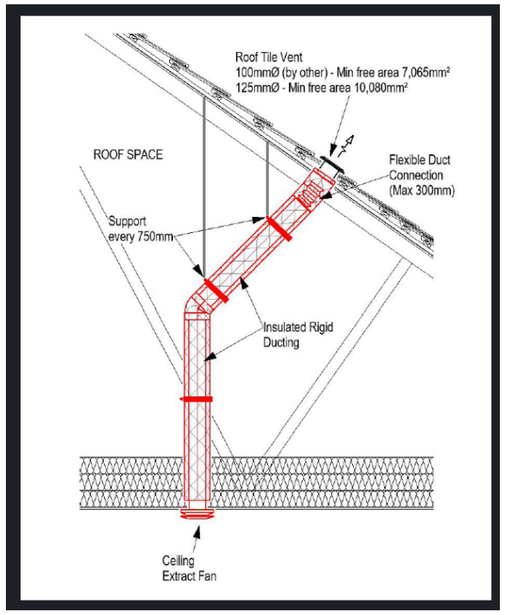
- PLOT 217

01 FIRST FLOOR PLAN

02 TRUSS LAYOUT

03 ELEVATIONS

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	-	-
3	10 L/S	1
4	-	-
5	-	-

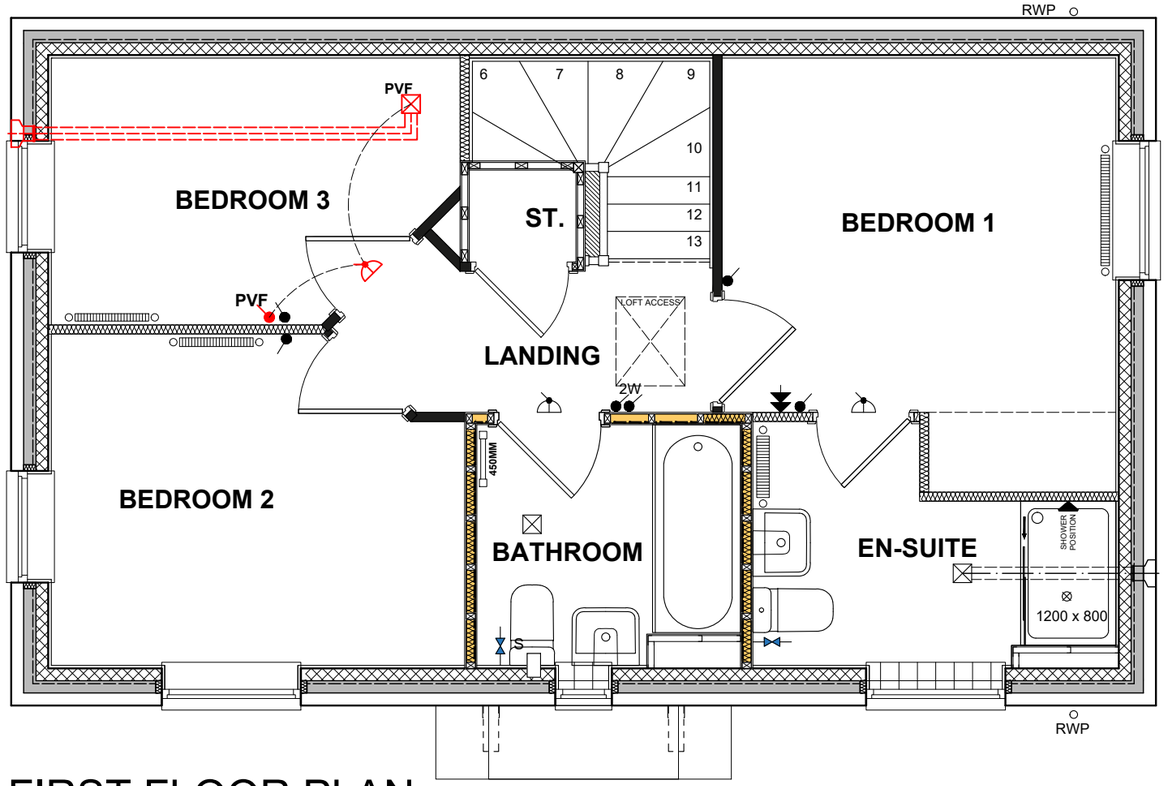


PLOT 217

BLOOR HOMES

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FIRST FLOOR PLAN

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	-	-
3	10 L/S	1
4	-	-
5	-	-

Vent-Axia

PRINT PAGE

PLOT 217

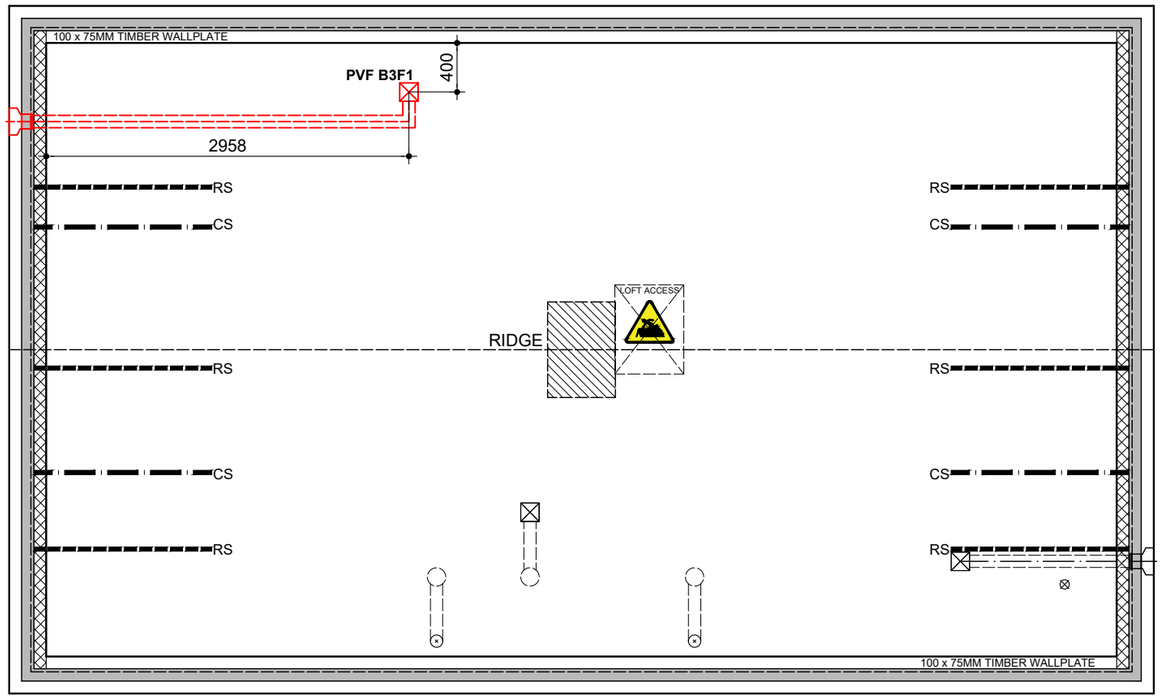
REV: 7.1 JAN 2025
AMENDED HANDING AS PER UPDATED SITE LAYOUT

BLOOR HOMES

NAME: LUTTERWORTH
DRAWING: FIRST FLOOR LAYOUT
DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT

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MAIN ROOF 47.5°

TRUSS SETTING OUT

PLOT 217

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	-	-
3	10 L/S	1
4	-	-
5	-	-

Vent-Axia

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REV: 7.1 JAN 2025
AMENDED HANDING AS PER UPDATED SITE LAYOUT

BLOOR HOMES

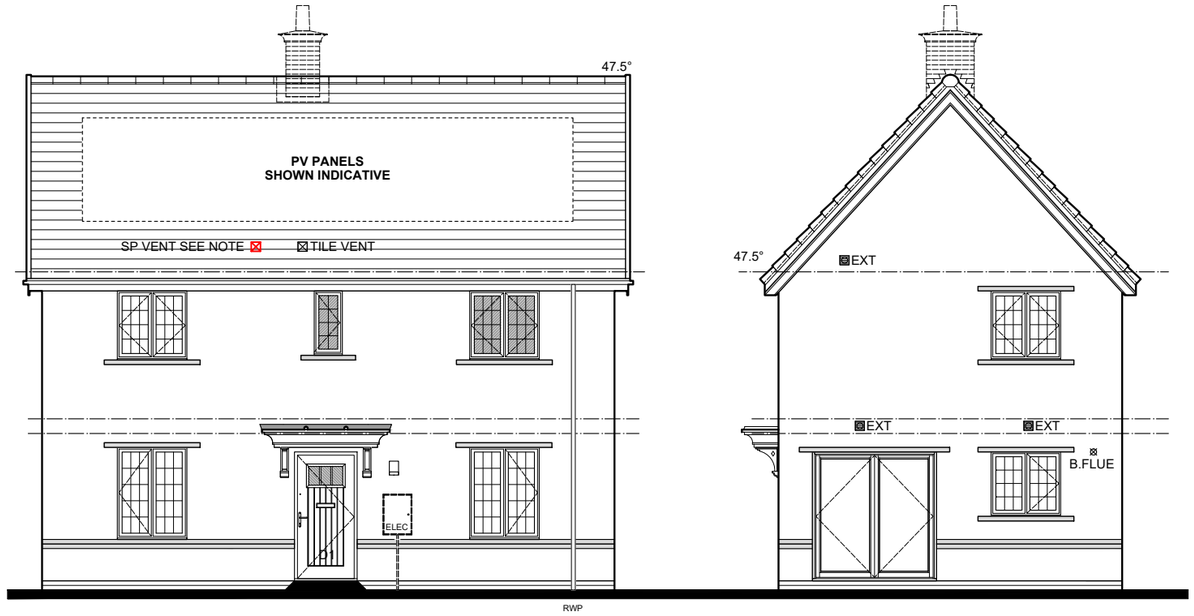
NAME: LUTTERWORTH

DRAWING: TRUSS LAYOUT

DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT

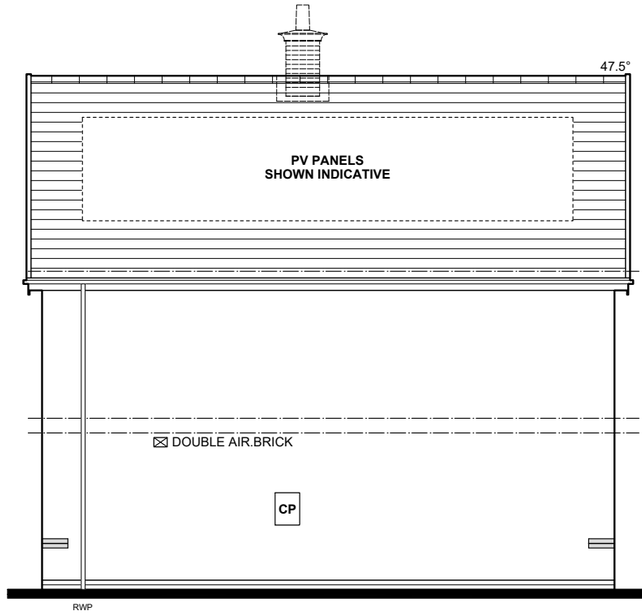
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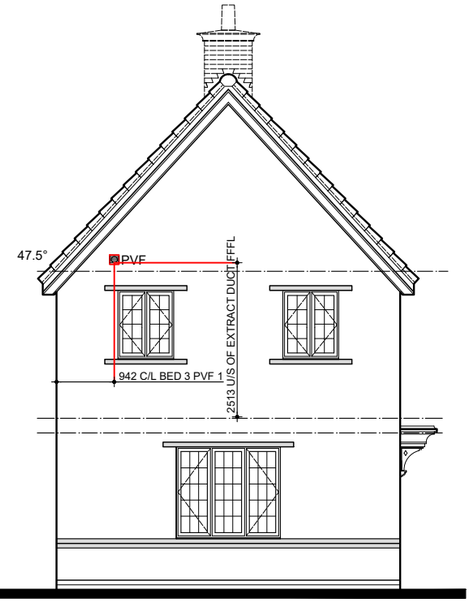


FRONT ELEVATION

SIDE ELEVATION



REAR ELEVATION



SIDE ELEVATION

PLOT 217

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	-	-
3	10 L/S	1
4	-	-
5	-	-

Vent-Axia

PRINT PAGE

REV.: 7.1 JAN 2025
AMENDED HANDING AS PER UPDATED SITE LAYOUT

BLOOR HOMES

NAME: LUTTERWORTH
DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT
DRAWING: ELEVATIONS

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LITTLE PAXTON EMPLOYMENT LAND
PURGE VENTILATION ADDENDUM DOCUMENT

THIS ADDENDUM DOCUMENT IS FOR THE PURGE VENTILATION STRATEGY ONLY
PLEASE REFER TO WORKING DRAWING PACK FOR DMEV (STANDARD) VENTILATION DESIGNS REQUIRED FOR THE REST OF THE PLOT.

COMMERCIAL TO ORDER PURGE VENTILATION FROM THIS PACKAGE ONLY. A LINK TO THE STANDARD VENTILATION IS AVAILABLE ON THE WORKING DRAWING PACKAGE.
TRADES AND SITE TO USE THIS IN CONJUNCTION WITH THE WORKING DRAWING PACKAGE.

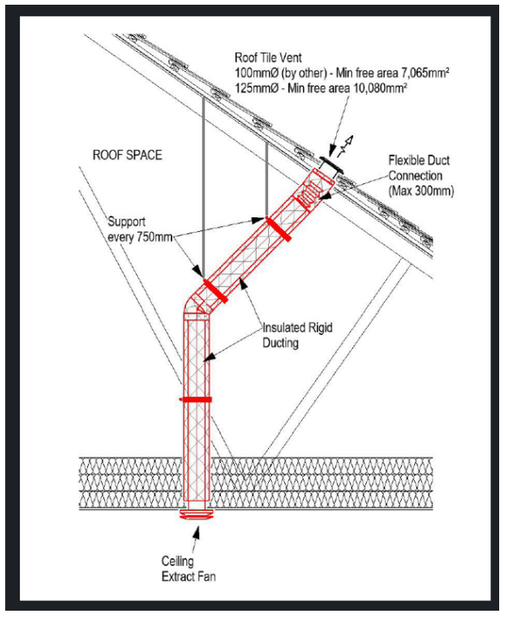
SOUTHEY - M3B5P/M3B5P-1

- PLOT 221 - 222

01 FIRST FLOOR PLAN
02 TRUSS LAYOUT
03 ELEVATIONS

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

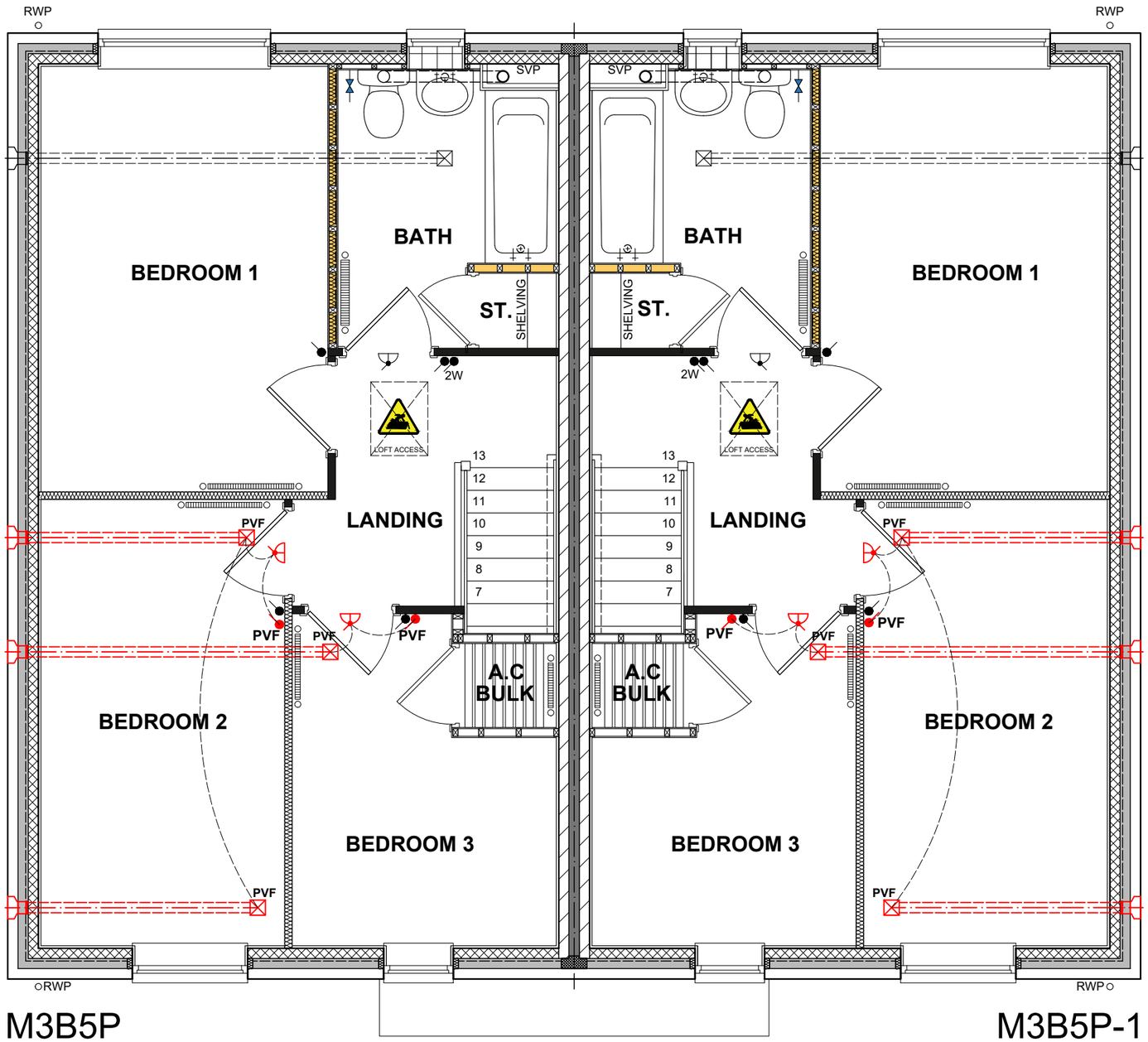


PLOT 221 - 222

BLOOR HOMES

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M3B5P
FIRST FLOOR PLAN

M3B5P-1

PLOT 221 - 222

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

Vent-Axia

PRINT PAGE

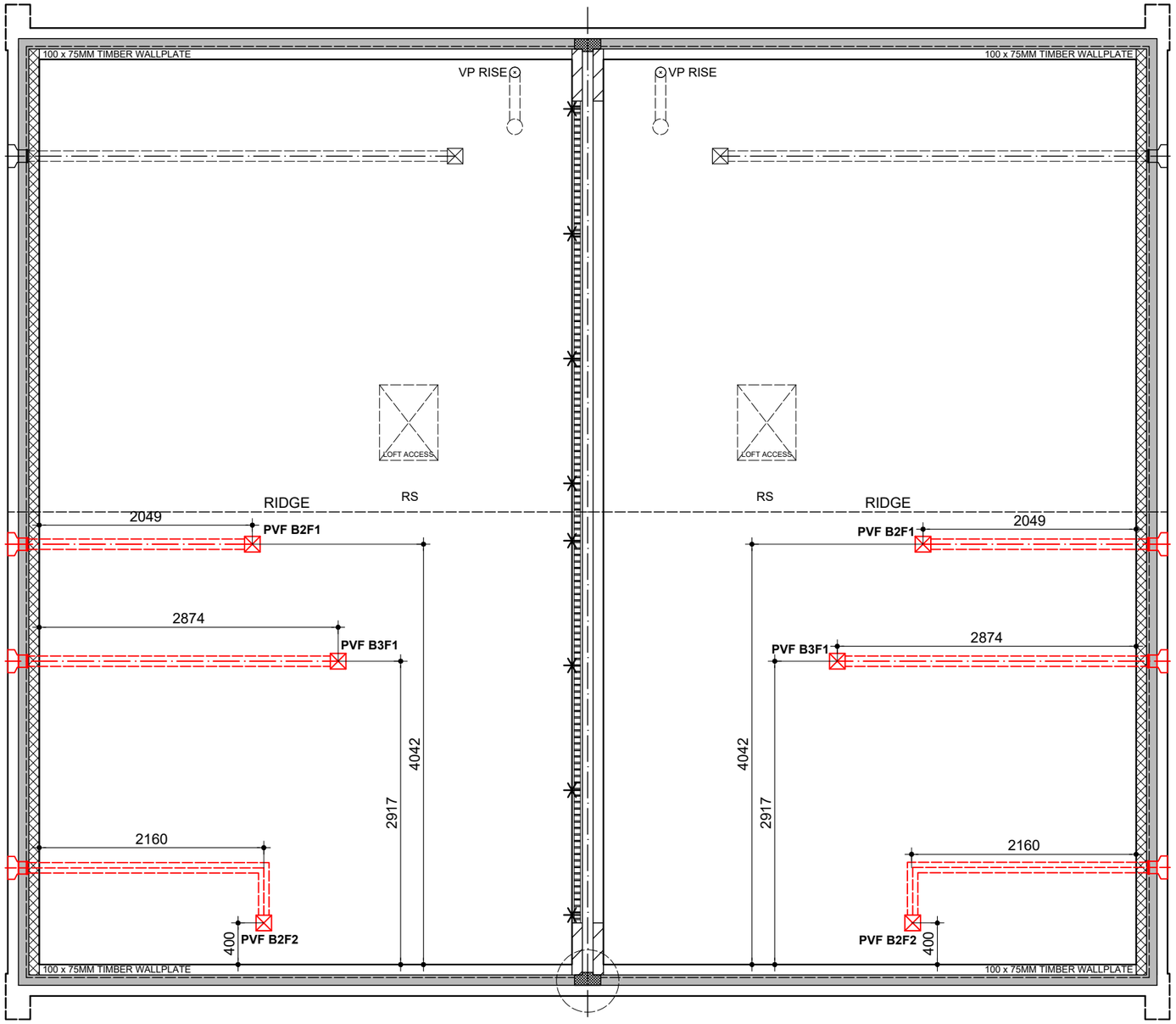
REV: 7 JUN 2024
PURGE ADDED TO BED 1, 2 AND 3

BLOOR HOMES

NAME: SOUTHEY
DRAWING: FIRST FLOOR LAYOUT
DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT

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M3B5P
TRUSS SETTING OUT

M3B5P-1

PLOT 221 - 222

PURGE VENTILATION RATE TABLE (AS)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)		
BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

Vent-Axia

PRINT PAGE

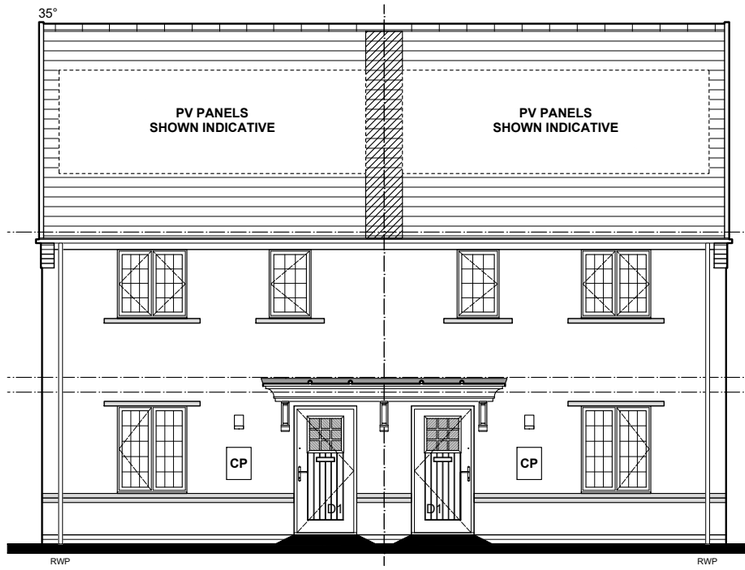
REV: 7 JUN 2024
PURGE ADDED TO BED 1, 2 AND 3

BLOOR HOMES

NAME: SOUTHEY
DRAWING: TRUSS LAYOUT
DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT

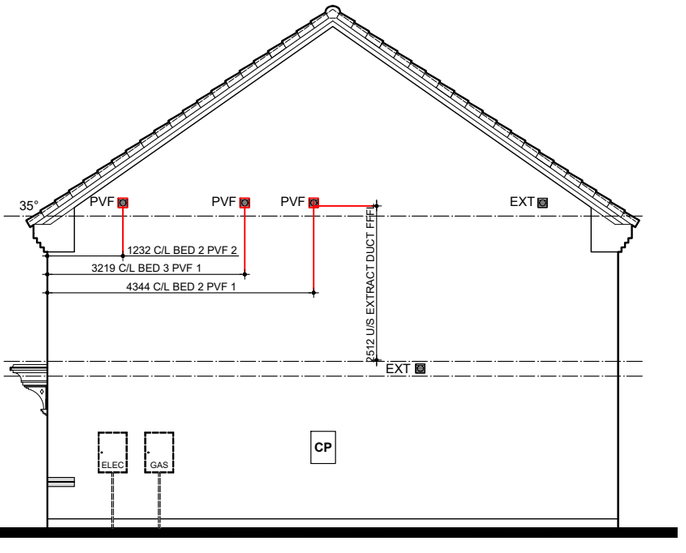
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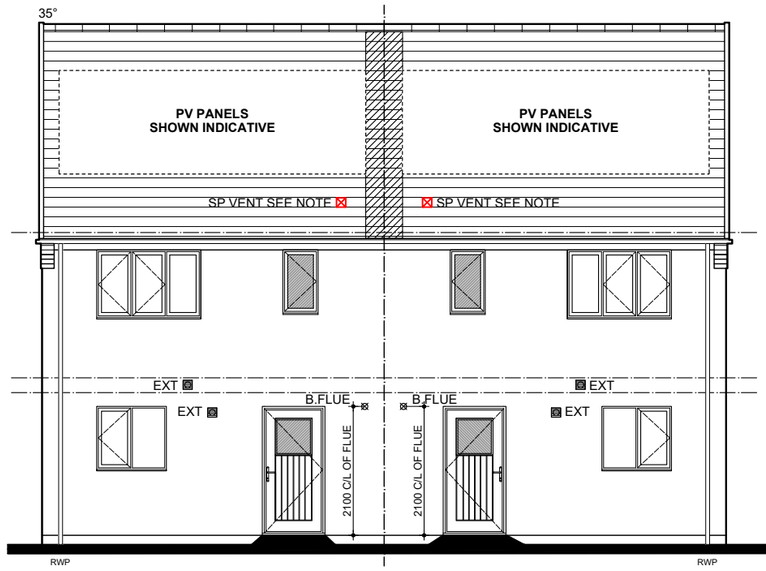


M3B5P
FRONT ELEVATION

M3B5P-1

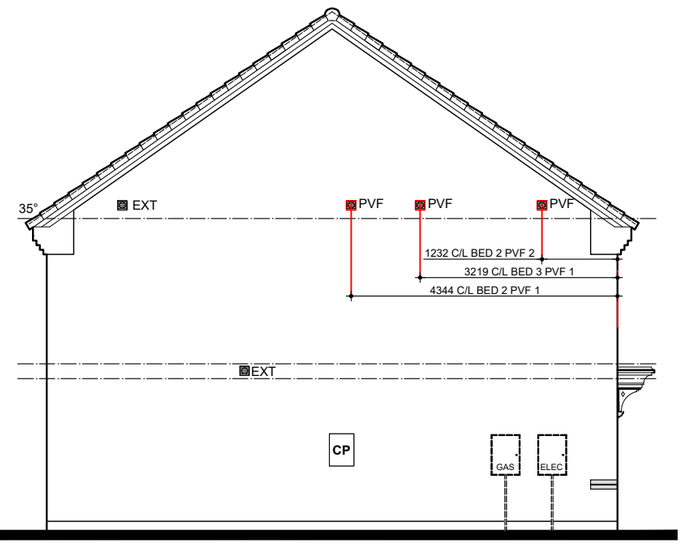


M3B5P-1
SIDE ELEVATION



M3B5P-1
REAR ELEVATION

M3B5P



M3B5P
SIDE ELEVATION

PLOT 221 - 222

PURGE VENTILATION RATE TABLE (AS)

BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

PURGE VENTILATION RATE TABLE (OPP)

BEDROOM	TOTAL RATE (L/S)	No. FANS
1	-	-
2	30 L/S	2
3	20 L/S	1
4	-	-
5	-	-

Vent-Axia

PRINT PAGE

REV: 7 JUN 2024
PURGE ADDED TO BED 1, 2 AND 3

BLOOR HOMES

NAME: SOUTHEY
DRAWING: ELEVATIONS
DRG NO.: LITTLE PAXTON EMPLOYMENT LAND
SCALE: 1:50 @ A3
DATE: JUN 2024
DRAWN: TS
CHECKED: JT

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4. Data Sheet From Vent-Axia

Lo-Carbon NBR dMEV/dMEVe

- Market leading efficiency
- Digital controls with display
- Fully adjustable trickle & boost airflow settings
- 100mm & 125mm model
- Recognised in SAP PCDB
- Constant volume
- Display showing airflow and system pressure
- Switched live connection for external switches/sensors
- IPX5 rated
- Multi-orientation grille
- NHBC Approved
- STAS Approved (Scotland)
- Airflow sensor models UKAS calibrated



H&V news AWARDS 2021 WINNER

Lo-Carbon NBR dMEV

Continuous running, constant volume dMEV range with switched live (LS) and innovative digital display and harmonised control platform. Quiet running and with high pressure development, the dMEV is best in class.

The unique patented display provides the calibrated installed airflow and pressure meaning that there is no need to test the installation with an airflow measuring device.

The constant volume technology automatically adjusts the speed of the fan to ensure the desired airflow is delivered. A silent high pressure axial impeller means Lo-Carbon dMEV can meet the requirements of many domestic installations without the need to use a traditional centrifugal fan.

A brand new control platform also provides fully adjustable airflow in 1l/s increments, meaning wholehouse rates can be achieved easily using fewer fans than is currently possible with any other dMEV product on the market.

Longer Duct Runs

A new 125mm dMEV fan is also available to further improve Dwelling Emission Rates (DER) by improving efficiency and lowering noise. The larger 125mm spigot also means there are almost no restrictions in terms of duct lengths and bends used in the system, when compared to a traditional 100mm axial fan. This means fewer fans are required to achieve wholehouse ventilation rates.

As can be seen below, an axial dMEV fan consumes a fraction of the energy of the equivalent centrifugal fan - drastically reducing DER.

Configuration	Location	Alternative Centrifugal Fan SFP	Vent-Axia dMEV 125mm SFP
In room	Kitchen	0.38	0.16
	Wet Room	0.29	0.20
Through Wall	Kitchen	0.36	0.12
	Wet Room	0.28	0.16

Side View of Airflow Display

Be confident that the dMEV is delivering the right performance with our innovative digital display showing the airflow and system pressure of the installed product.



Comfort Control Option

Designed to offer a more relaxing environment to the homeowner, the Lo-Carbon dMEV features a delayed start option. This patented comfort control option is selectable at installation and allows the homeowner to enjoy a quiet, peaceful bathroom for up to 20 minutes before the Boost activates. Furthermore, if the light switch turns On and Off within 3 minutes, the Boost will not activate. No more disturbing the family if the bathroom light is turned on during the night.

Model

Lo-Carbon NBR dMEVe & dMEVe HT

For kitchen, utility and bathroom/toilet applications, the continuous running H model incorporates an adjustable (40% - 90%) ambient response humidistat. The fan will increase the extract rate if the humidity rises above the point set at installation.

Fixed Speed Settings (3 boost speeds, 2 trickle speeds)

Model	Stock Ref
100e (Switch Live)	474496
100e HT (Humidity Control)	474497

Fixed Speed Settings (2 boost speeds, 3 trickle speeds)

Model	Stock Ref
125e (Switch Live)	495364
125e HT (Humidity Control)	495365

Vent-Axia

Lo-Carbon NBR dMEV & dMEV HT

Continuous running dMEV available in two sizes. Humidity control models incorporate an adjustable (40% - 90%) ambient response humidistat. The fan will increase the extract rate if the humidity rises above the point set at installation. Variable speed options for trickle and boost, dependant on size for maximum control. Features a display prism, to allow users to see airflow being achieved without having to remove a grille.

Variable Speed Settings (5-30 l/s trickle, 6-35 l/s boost)

Model	Stock Ref
100 (Switch Live)	475142
100 HT (Humidity Control)	473809

Variable Speed Settings (9-30 l/s trickle, 10-35 l/s boost)

Model	Stock Ref
125 (Switch Live)	494147
125 HT (Humidity Control)	494148

Accessories

Model	Stock Ref
Wall Kit White 100mm	254102
Wall Kit Brown 100mm	254100
Ceiling Kit 100mm	407928
Window Kit 100mm	407927
Decoration Frame 100mm	474041
Wall Kit White 125mm	455226
Conversion Kit 150mm	408680

Consultant Specification

The de-centralised mechanical extract ventilation unit shall be the NBR DMEV as manufactured by Vent-Axia, exact unit sizing and specification shall be in accordance with the particular specification.

The range should consist of IPX5 rated 100mm and 125mm sizes to meet the Building Regulations compliant design, extracting air from wet rooms (including kitchen and utility) via rigid, flexible ducting or through-wall applications with the fewest fans possible, supplied with a 7 year warranty.

The 100mm DMEV should have variable speed settings of 5-30 l/s on trickle and 6-35 l/s on boost, achieving a minimum noise level of 13 dB(A) at 3 metres. The 125mm DMEV should have variable speed settings of 9-30 l/s on trickle and 10-35 l/s on boost, achieving a minimum noise level of 12.9 dB(A) at 3 metres. All units shall be and independently 3rd party tested at the Sound Research Laboratory (SRL), tested to BS EN 13141-6.

The unit shall comprise a single high efficiency EC/DC motor to deliver specific fan powers as low as 0.12 w/l/s, as measured in accordance with the SAP PCDB test method and listed on the PCDB database.

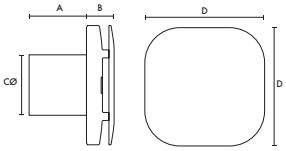
The controls for the DMEV unit shall provide fully adjustable, continuous trickle and boost speeds, with the airflow being controlled in 1 l/s increments. The boost speed shall be activated via a switch live input or integral humidistat.

The unit shall include an integral humidity sensor with ambient and rapid response capability, which increases fan speed in proportion to the level of humidity detected. The unit shall also automatically raise the humidity threshold set point as temperature decreases in order to prevent unnecessary boosting due to background humidity levels.

The unit shall be able to be commissioned as a continuous running or intermittent fan according to the Building Regulations compliant design. The fan will have an in-built spirit level for ease of installation.

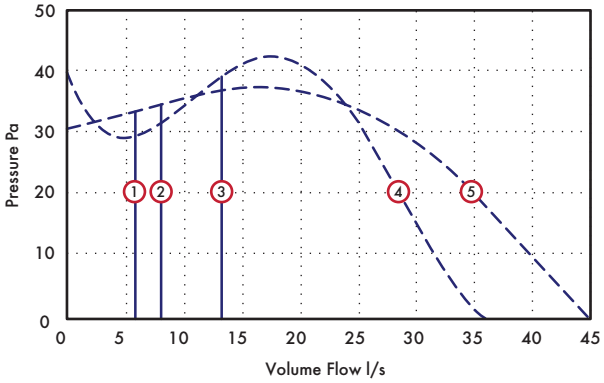
Commissioning of the fan in accordance with the Building regulations shall be achieved without the use of an airflow measuring device. The fan shall be provided with a UKAS calibrated, constant volume function with the flow rates displayed on the unit without having to remove the cover via the display prism.

Dimensions (mm)



Model	A	B	CØ	D
100	81	43	99	190
125	100	46	115	213

Performance Guide



1. 6l/s Constant Volume
2. 8l/s Constant Volume
3. 13l/s Constant Volume
4. Maximum pressure available to deliver airflow - 100mm model
5. Maximum pressure available to deliver airflow - 125mm model

Sound

	100mm					125mm				
Flow l/s	Min	6	8	13	Max	Flow l/s	Min	9	13	15	Max
Pa	-	5	7	17	-	Pa	-	4	7	9	-
dB(A)	13	14	17	24	41	dB(A)	12	14	17	19	36

SAP PCDB Performance

Unit Configuration	Location	100 Model	125 Model
In room (rigid duct)	Kitchen	0.17	0.16
	Wet room	0.17	0.20
In room (flex-duct)	Kitchen	0.16	0.15
	Wet room	0.16	0.20
Through wall	Kitchen	0.12	0.12
	Wet room	0.14	0.16

Vent-Axia

NBR DMEV

100mm & 125mm
CONTINUOUS EXTRACT FAN RANGE

Installation and Wiring Instructions



Stock Ref. N°

475142A - NBR DMEV 100
473809A - NBR DMEV 100 HT

494147 - NBR DMEV 125
494148 - NBR DMEV 125 HT

220-240V~50Hz

Vent-Axia®

PLEASE READ INSTRUCTIONS IN CONJUNCTION WITH ILLUSTRATIONS.
PLEASE SAVE THESE INSTRUCTIONS.

IPX5

Installation and Wiring Instructions for the NBR DMEV Range of Extractor Fans.



IMPORTANT:
READ THESE INSTRUCTIONS BEFORE COMMENCING THE INSTALLATION

DO NOT install this product in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures higher than 40°C or less than –5°C.
- Possible obstructions which would hinder the access or removal of the Fan.

SAFETY AND GUIDANCE NOTES

A. All wiring to be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country and **MUST** be installed by a suitably qualified person.

B. The Fan is suitable for installation within Zones 1 & 2.

C. The Fan should be provided with a local isolator switch capable of disconnecting all poles, having a contact separation of at least 3mm.

D. Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.

E. The Fan should only be used in conjunction with the appropriate Vent-Axia products.

F. The fan should only be used in conjunction with fixed wiring.

G. When the Fan is used to remove air from a room containing a fuel-burning appliance, ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.

H. The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.

I. Where ducted Fans are used to handle moisture-laden air, a condensation trap should be fitted. Horizontal ducts should be arranged to slope slightly downwards away from the Fan.

J. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

K. Young children should be supervised to ensure that they do not play with the appliance.

DESCRIPTION

The NBR DMEV fan is a continuously running extract fan for kitchens, utility rooms, bathrooms and toilets.

The product incorporates an airflow detection system that detects the installation duct resistance and maintains the correct fan speed to achieve the preset extract flow rate.

The incorporated LED display allows the installer to configure the fan to suit its installation.

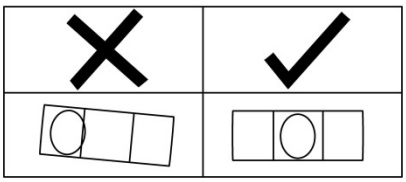
The fan can be wall, window (100mm only) or panel/ceiling mounted.

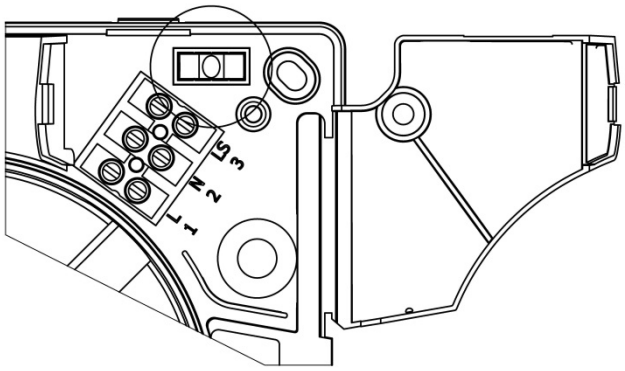
ACCESSORIES (not supplied)

- **WALL FITTING KIT** - A range of white (stock ref. 254102), brown (stock ref. 254100) 100mm wall kits & White (Stock ref. 455226) 125mm wall kits are available for installing into most walls using telescopic liners supplied.
- **WINDOW KIT** stock ref. 407927 (100mm only)
- **CEILING KIT** stock ref. 407928 (100mm only)
- **150mm CONVERSION KIT** stock ref. 408680 (100mm only)
- **Decoration Frame** stock ref. 474041 (100mm only)

A. INSTALLATION

PANEL/CEILING/ INTERIOR WALL MOUNTING





Open up the internal cover to access
The spirit level bubble

1. Cut a 107mm diameter hole (100mm fans) or a 130mm hole for (125mm fans).
2. Remove the front panel by carefully pulling it away from the fan. Loosen the two self-retaining screws and remove the inner grille by carefully pulling it away from the housing.
3. Using the built in spirit level bubble as an aid. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position. Attach ducting as required for the installation.
4. Wire the fan as described in Section B-Wiring. Adjust any settings as required (see Section C-Setup).
5. After installation, ensure impeller rotates freely.
6. Replace the inner grille and tighten the retaining screws.
7. Replace the front panel.

EXTERIOR WALL MOUNTING

1. For wall mounting cut a 117mm diameter hole (100mm fans) or a 140mm hole (125mm fans) through the wall and insert the wall sleeve. Slope the sleeve slightly downwards away from the fan. Where necessary cut to length and cement both ends into position flush with the wall faces.
2. Fix exterior grille into position with the louvres positioned downwards.
3. Remove the front panel by carefully pulling it away from the fan. Loosen the two self-retaining screws and remove the inner grille by carefully pulling it away from the housing.
4. Using the built in spirit level bubble as an aid. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position.
5. Wire the fan as described in Section B-Wiring. Adjust any settings as required (see Section C-Setup).
6. After installation, ensure impeller rotates freely.
7. Replace the inner grille and tighten the retaining screws.
8. Replace the front Panel.

WINDOW MOUNTING (100MM ONLY)

For window mounting refer to the instructions provided with the kit.

B. WIRING.

WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING INSTALLATION OR MAINTENANCE.

IMPORTANT

- The cross - sectional area of supply cord used should be ranged from 0.75 -1.5mm^2.
- The extraction fan is suitable for connection to 220-240V 50Hz supply.
- The fan is a class ll double insulated product and **MUST NOT** be earthed.

1. Select and follow the appropriate wiring diagram. **(Fig. 1, 2, 3)**
2. Check all connections have been made correctly and ensure all terminal connections and supply wires are securely fastened. **(Fig. 4)**
3. Ensure the impeller rotates and is free from obstructions.

C. SETUP

Accessing the commissioning menu

To configure the fan first remove the grille. With the grille removed the control buttons are visible (Fig.4). Do NOT isolate the fan from the power supply as configuration requires power to the fan.

IMPORTANT

Do NOT attempt to remove the circuit board cover (Fig.4). This covers the high voltage power supply, preventing the risk of an electric shock.

Display modes
When first powered on, the display will run through an initialisation sequence and then activate prism mode (cover on).
When a button is pressed, the display will go into the menu system and display as viewed without the prism.
The display will return to prism mode after 30 seconds of inactivity (i.e. no button presses).
When activating the menu, the initial button push will not change any settings.

Prism Mode
When the controller is in 'prism mode' the display will be mirrored such that the characters are shown correctly when viewed through the prism fitted in the fan cover.
When activated, prism mode will run for 15 minutes, then cycle between displaying:

- Airflow rate
- Estimated duct pressure (if CV / F-2 mode enabled)
- Current RH% (HT models only)

Calibration process will run after the first 15 minutes (if CV / F-2 mode enabled); see Advanced settings for further details.

Menu
If the buttons are pressed the display goes from prism mode to direct view mode and menu activated. If the buttons are not pressed for 30 seconds the display reverts to prism mode.

The ⌃ (Up) button is used to increase the value of a setting, the ⌄ (Down) button is used to reduce the value of a setting and the ⊗ (Mode/Set) button is used to advance to the next menu item.



The fan has the following 'menu' modes:

- Standard (press any button from normal runtime - ⌃ ⌄ ⊗)
- Advanced/Engineer (hold ⌄ + ⊗ for 5 seconds from the standard menu)

Standard settings:

Display text	Configuration Option	Selections			Default
r-n	Rotate display	r-Y = display rotated	r-n = display normal		r-n
tr1	Trickle speed adjustment	100mm: 0*, 5 to 30 l/s (Max limited by Boost Selection)			6l/s
		125mm: 0*, 9 to 30 l/s (Max limited by Boost Selection)			9l/s
bSt	Boost speed adjustment	100mm: 6 to 35 l/s (Min limited by Trickle Selection)			13 l/s
		125mm: 10 to 35 l/s (Min limited by Trickle Selection)			15 l/s
b15	Boost Overrun time	b0 to b30 – 0 to 30 minutes (0 disables overrun)			15
h70	Humidity level trigger	h40 to h90 - 40% to 90% relative humidity			70% RH
F-0	Fan Control Mode	F-0 = CV disabled, wall / window installation	F-1 = CV disabled, ducted installation	F-2 = CV Constant Volume enabled	F-0
c-n	Comfort mode	c-n = normal LS overrun	c-Y = comfort mode		c-n

***If "0" is selected, the fan switches to Intermittent mode.**

Advanced settings:

Display text	Configuration Option	Selections		Default
A-Y	RH Ambient Response	A-Y Ambient Response enabled	A-n Ambient Response disabled	Enabled
P-Y	RH Rapid Response enable	p-Y = Rapid Response enabled	p-n = Rapid Response disabled	Y

Settings

Speed selection

Set trickle and boost speeds in l/s by using the ⌃ and ⌄ buttons.

To convert m3/h to l/s, divide the m3/h by 3.6 (e.g. 54m3/h / 3.6 = 15 l/s).

The Trickle Speed cannot be higher than the Boost selection. Therefore it might be necessary to modify the Boost selection before increasing the Trickle setting.

If "0" is selected for the trickle speed, the fan will be off until a boost signal is activated (for example via LS/humidity).

Boost time
The boost setting allows the boost timer to be adjusted from 1-30 minutes, the default is 15 minutes. This option may also be disabled, thus removing the option from the menu and setting the overrun to 0.

Inbuilt Ambient Response Humidistat with Rapid Rise Detection
The humidity threshold setting defines at what relative humidity the fan will trigger, adjustable from 40% to 90% rH. The fan increases in speed slowly between the trickle and boost speeds between the trigger %rH and +10%. The trigger point will automatically adjust if the temperature drops below 18C to prevent nuisance triggering.
The fan also incorporates a rapid rise function to detect rapid rises in humidity when the ambient %rH is under the threshold setting. If a rapid rise is detected the fan will increase in speed proportionally between the trickle and boost settings until the humidity lowers again.

Comfort mode

- With comfort mode disabled, the fan will go into boost as soon as an LS (Light Switch) input is detected and over-run for the set period after LS is disconnected.
- With comfort mode enabled, the fan will remain off / in trickle up to a maximum of 20 minutes. Once LS is deactivated, fan will run at boost mode for the length of time LS was present up to a maximum of 20 minutes plus the set over-run time.
  If the LS was activated for < 3 minutes, no boost will occur to prevent nuisance activations.

Fan Control Mode
There are 3 modes for fan speed control. Wall, ducted and constant airflow/ volume (CV) mode. In wall or ducted mode, the fan speeds are pre-determined at the factory and does not use the airflow sensor.
In CV mode (Constant Airflow/Volume), the fan will automatically adjust the fan speed to maintain the desired airflow. After the first 15 minutes of operation the fan enters calibration mode to determine the most efficient mode of operation.

Calibration Reset

In some circumstances it may be necessary to reset the calibration settings (if the fan was covered to prevent dust/damage/or poor weather outside).

Reset the calibration by configuring the fan for wall or duct mode (F-0 or F-1), turn the product off and on and re-configure back to CV mode (F-2). The fan will calibrate after 15 minutes.

Calibration

The airflow sensor is calibrated at the factory using UKAS accredited equipment. Details of the equipment and certification can be found on the inside of the fan.

D. SERVICING AND MAINTENANCE

WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE.

1. At intervals appropriate to the installation, the fan should be inspected and cleaned to ensure there is no build-up of dirt or other deposits.
2. Wipe the inlets and front face with a damp cloth until clean.
   Be careful not to push dirt into the airflow sensor.

The fan has sealed for life bearings, which do not require lubrication.

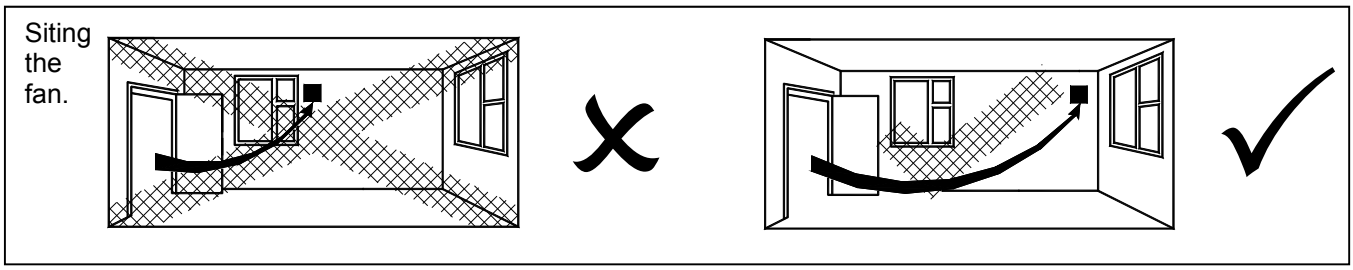


Fig.1 Continuous trickle. (The fan is internally fused)

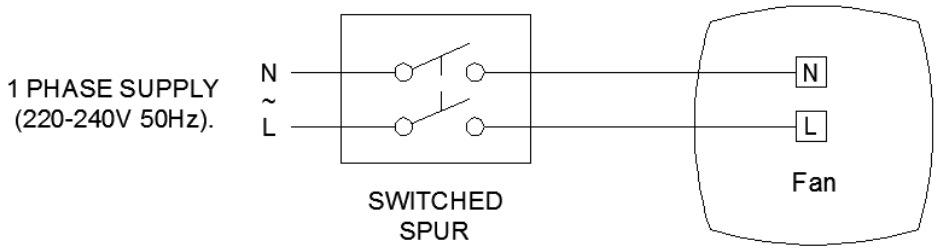


Fig.2 Continuous boost 1 with no trickle facility. (The fan is internally fused)

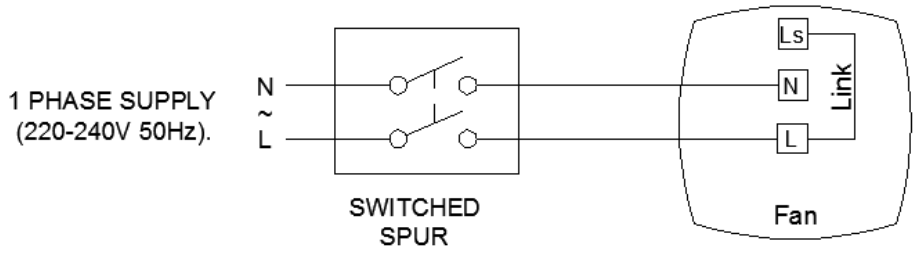


Fig.3. Continuous trickle with boost facility. (The fan is internally fused)

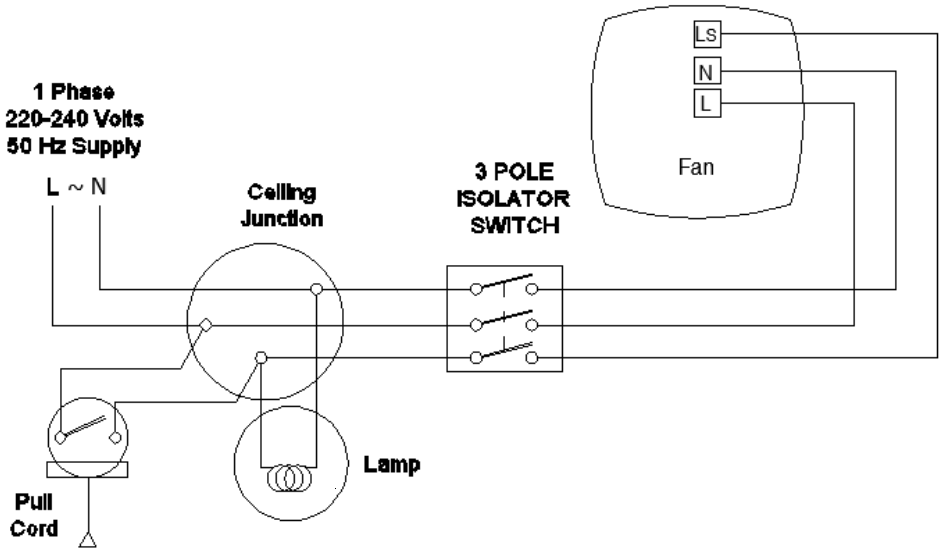
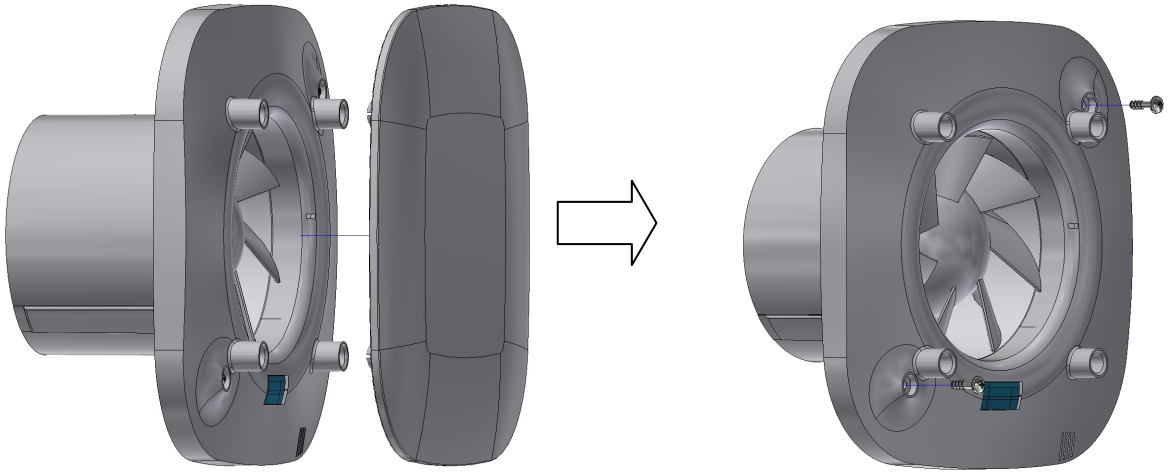
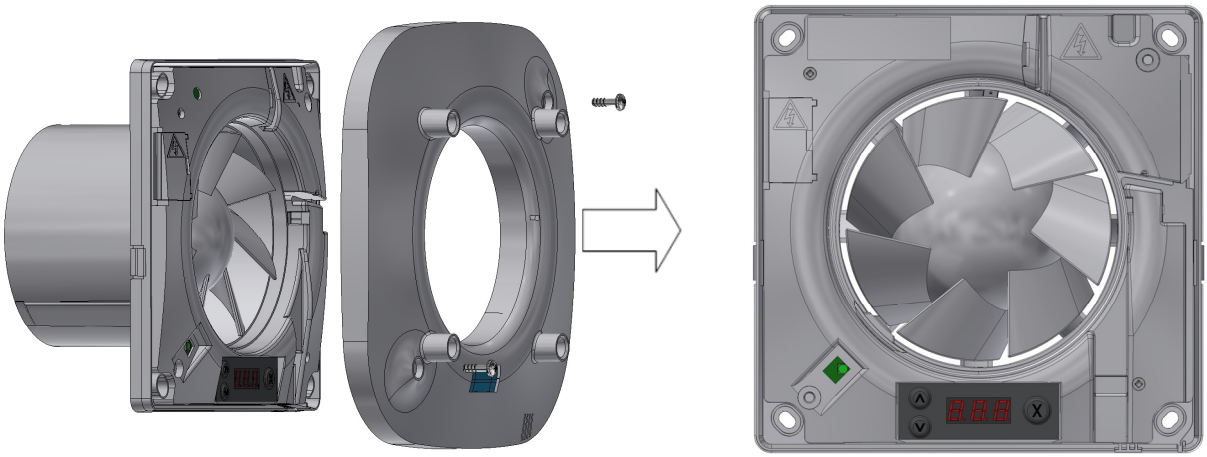


Fig.4 Removing the grille for wiring and setting the controls

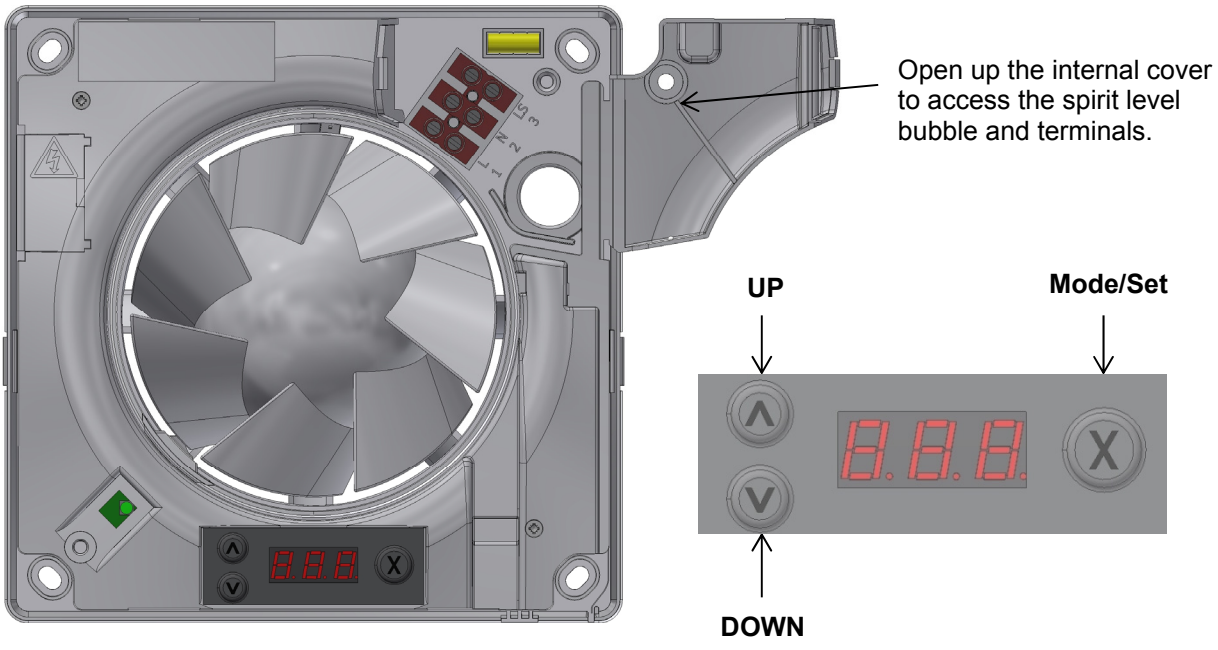


Pull front panel as shown.

Loosen screws – DO NOT REMOVE FROM GRILLE
(the screws are self-retaining)



Pull inner grille away from housing as shown.



Troubleshooting guide

Problem	Explanation	Solution
Fan speeding up and down	This might be due to external wind conditions	This is normal. If it is a very windy day for example, the fan will be speeding up and down continuously to ensure the correct airflow is maintained.
		If this is a continuous nuisance, change the fan setting from F-2 to F-1 or F-0 dependant on the installation.
Fan moving too much or too little air	Fan set to incorrect speed rate for installation?	Update the speeds to achieve desired airflow.
	This might be due to very windy conditions when the fan was first powered on. Positive or negative pressure on the external wall will influence the initial installation calibration the fan performs.	Reset the fan by updating the F-2 to F-0, power cycle, then back to F-2.
	The fan will react to any equipment used to check the airflow.	Please take into account the product will react to additional pressure from a vane anemometer/other (device that measures airflow), and may run much faster to overcome the resistance. The fan should revert back to the original speed after a few minutes.
Fan displays ERR during calibration	This might be due to very windy conditions when the fan was first powered on. Positive or negative pressure on the external wall will influence the initial installation calibration the fan performs. The fan will still function normally and will try and match the target flow rate as best as possible.	Power cycle the fan when the external wind conditions are better and the fan will retry.

PRODUCT FICHE

For Residential Ventilation Units (Complying Commission Delegated Regulation (EU) No 1254/2014)

Name:	Vent-Axia	Vent-Axia	Vent-Axia	Vent-Axia
Model ID (Stock Ref.) :	NBR DMEV 100HT 473809A	NBR DMEV 100 475142A	NBR DMEV 125HT 494148	NBR DMEV 125 494147
SEC Class	C	E	C	E
SEC Value ('Average')	-25.81	-14.83	-25.81	-14.83
SEC Value ('Warm')	-11.45	-6.22	-11.45	-6.22
SEC Value ('Cold')	-50.90	-29.86	-50.90	-29.86
Label Required? (Yes/No=Out of scope)	No	No	No	No
Declared as: RVU or NRVU/UVU or BVU	RVU-UVU	RVU-UVU	RVU-UVU	RVU-UVU
Speed Drive	Variable Speed	Variable Speed	Variable Speed	Variable Speed
Type HRS (Recuperative, Regenerative, None)	None	None	None	None
Thermal Eff: [(%), NA(if none)]	N/A	N/A	N/A	N/A
Max. Flow Rate (m3/h)	50.04	50.04	135	135
Max. Power Input (W): (@Max.Flow Rate)	1.50	1.50	10	10
LWA: Sound Power Level (dB)	39.52	39.52	54.5	54.5
Ref. Flow Rate (m3/s)	0.01	0.01	0.026	0.026
Ref. Pressure Diff. (Pa)	N/A	N/A	N/A	N/A
SPI [W/(m3/h)]	0.03	0.03	0.03	0.03
Control Factor & Control Typology: (CTRL/ Typology)				
Control Factor; CTRL	0.65	0.95	0.65	0.95
Control Typology	Local Demand Control	Clock Control	Local Demand Control	Clock Control
Declared: -Max Internal & External Leakage Rates(%) for BVUs or carry over (for regenerative heat exchangers only), -&Ext. Leakage Rates (%) for Ducted UVUs;	N/A	N/A	N/A	N/A
Mixing Rate of Non-Ducted BVUs not intended to be equipped with one duct connection on either supply or extract air side;	N/A	N/A	N/A	N/A
Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit	N/A	N/A	N/A	N/A
For UVUs (Instructions Install Regulated Supply/Extract Grilles Façade)	In F&W	In F&W	In F&W	In F&W
Internet Address (for Disassembly Instructions)	www.vent-axia.com	www.vent-axia.com	www.vent-axia.com	www.vent-axia.com
Sensitivity p. Variation@+20/-20 Pa: (for Non-Ducted Vus)	N/A	N/A	N/A	N/A
Air Tightness-ID/OD-(m3/h) (for Non-Ducted Vus)	N/A	N/A	N/A	N/A
Annual Electricity Consumption: AEC (kWh/a)	0.17	0.36	0.17	0.36
Annual Heating Saved: AHS (kWh/a)				
AHS: Average	26.23	15.72	26.23	15.72
AHS: Warm	11.86	7.11	11.86	7.11
AHS: Cold	51.31	30.75	51.31	30.75

5. Window Frame and Glazing Details

SF Xtra Sound Attenuator Vent

Surface mounted noise reducing ventilator



SF Xtra Sound Attenuator internal



SF Sound Attenuator Canopy external

Suitable for:

PVCu ✓ ALUMINIUM ✓ TIMBER ✓

The SF Xtra Sound Attenuator ventilator is a slot ventilator which provides high levels of sound attenuation compared to similar 'acoustic' products, in a compact size.

The SF Xtra Sound Attenuator can be purchased in a number of combinations based on different sizes of inner (ventilator) and outer (canopy). Combinations can be chosen depending on the sound attenuation requirement and can achieve up to $D_{n,e,w}$ (C;Ctr) = 44 (-2;-3)dB when the vent is open.

The product is a cost effective method of reducing incoming noise in situations where conventional slot ventilators are unable to assist with acoustic issues.

The SF Xtra Sound Attenuator comes fitted with a Titon SF Xtra Ventilator and/or SF Canopy (HF Canopy for 5000EA version) and fits the 2500mm² EA version over the standard SF, Trimvent Select or Select Xtra slot size.



SF Canopy version

Features and Benefits

- **Cost effective sound attenuating ventilator**
- **Independently tested by Sound Research Laboratories in accordance with BSEN20140-10:1992, ISO140-10:1991**
- **2500mm² EA and 5000mm² EA versions available**
- **Vent sizes available: V25, V50, V75 and canopy sizes: C25, C50 and C75**
- **Can provide up to 44 $D_{n,e,w}$ attenuation, depending on combination**
- **Suitable for use in domestic or non-domestic installations**
- **Ideal for retrofit applications, over an existing slot**
- **Available in a range of combinations to suit different acoustic specifications**
- **Fits over a standard SF, Trimvent Select or Trimvent Select Xtra slot size**
- **Supplied with SF Xtra Ventilator and/or SF Canopy fitted (HF Canopy for 5000EA version)**
- **High performance gasket combined with compression closing action improves sealing in adverse conditions**
- **Can be mounted to deflect air upwards or downwards**
- **For use over a 13mm slot**
- **Special paint finishes available**

Details

Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	Free Area (mm²)	Slot Detail
SF Xtra 2500EA Vent only	TA5220	425	28	10-24	4207	
SF 418 Canopy only	TA5005	418	23	27	5114	
SF Xtra Sound Attenuator 2500EA Vent 25mm	TA5221	464	35	37-51	3470	
SF Sound Attenuator 2500EA Canopy 25mm	TA5202	464	35	54	3470	173.5 20 173.5 13
SF Xtra Sound Attenuator 2500EA Vent 50mm	TA5223	464	35	62-76	3470	
SF Sound Attenuator 2500EA Canopy 50mm	TA5204	464	35	79	3470	
SF Xtra Sound Attenuator 2500EA Vent 75mm	TA5225	464	35	87-101	3470	
SF Sound Attenuator 2500EA Canopy 75mm	TA5206	464	35	104	3470	
SF Xtra Sound Attenuator 5000EA Vent 75mm	TA5235	523	35	87-101	5517	215 8 215 13
HF Sound Attenuator 5000EA Canopy 75mm	TA5236	523	35	113.5	5517	

Acoustic Ratings

Product	Open	Closed	EA (mm²)
V75 + C75 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 44 (-2;-3)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-1;-5)dB	2500
V75 + C50 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 42 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-2;-5)dB	2500
V75 + Standard Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 40 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 53 (-1;-4)dB	2500
V50 + C25 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 39 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-2;-5)dB	2500
V50 + Standard Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 38 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-2;-5)dB	2500
V25 + C25 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 36 (0;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-1;-5)dB	2500
V25 + Standard Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 35 (0;-1)dB	$D_{n,e,w}$ (C;Ctr) = 54 (-1;-4)dB	2500
Standard Vent + C25 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 35 (0;-1)dB	$D_{n,e,w}$ (C;Ctr) = 55 (1;-5)dB	2500
Standard Vent + Standard SF Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 32 (1;0)dB	$D_{n,e,w}$ (C;Ctr) = 52 (-2;-4)dB	2500
V75 + C75 (Hi Spec Foam) (5000EA)	$D_{n,e,w}$ (C;Ctr) = 40 (-2;-3)dB	$D_{n,e,w}$ (C;Ctr) = 51 (-1;-4)dB	5000

Manufactured from

Aluminium 6063A T6, component parts POM

Recommended screws

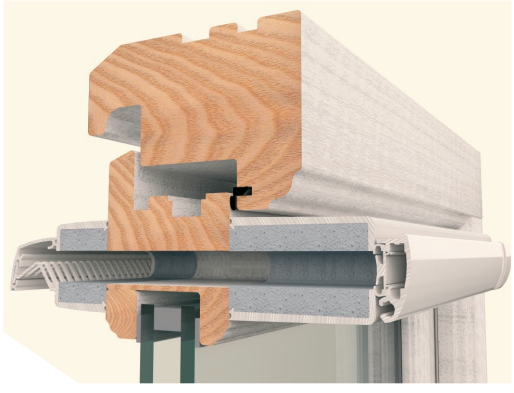
4mm (No.8) Round Head or equivalent
When fitting to PVCu screw must go through two walls or into reinforcement

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow air leakage and weather tightness)

Finishes

Suffix product code with -20 (white)
Other colour options available. Please contact sales for details.



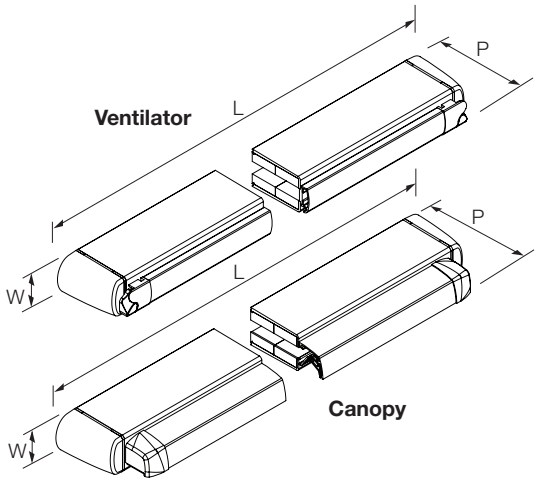
Through sash

Performance

(Full details available on request)
Equivalent Area – See above
Free Area – See above
Air Leakage – 0.11m³/hr @ 50Pa (Vent and Canopy only)
Water Resistance (Pa) – 750Pa
Acoustic $D_{n,e,w}$ – see above
NB: For optimum performance the ventilator should be installed on a flat surface free from defects, and sealant should be used along all edges to achieve the desired acoustic result.

More information

enquiries@titon.co.uk / 01206 713801



Acoustic Performance

Glazing Configuration

6.76mm (33.2) LamiGlass (PVB)

18mm Cavity

4mm Float Glass

.

Sound Reduction Indices

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000	37	-2	-5	30	36
23	28	34	39	42	44					

Disclaimer: The acoustic performance data provided in the reports is based on a test protocol or an estimation and may be used if user actual glazing is identical to input data described herein. Acoustic performance data herein is only applicable for glazing dimensions 1,23 m x 1,48 m (as per testing standard). Estimation of acoustic performance is based on component-similarity assumptions which are derived from measured data and interpolation to expand the database of values from test protocols. Actual performance may vary according to the glazing dimensions, frame system, noise sources and many other parameters. The acoustic performance data herein should not be used as a substitute for tests of actual glazing. For more information please consult Assumptions and Terminology section in Guardian Acoustic Assistant.

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Acoustic Performance

Glazing Configuration

4mm Float Glass

18mm Cavity

6mm Float Glass

.

Sound Reduction Indices

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000	35	-1	-4	29	34
26	25	29	40	38	29					

Disclaimer: The acoustic performance data provided in the reports is based on a test protocol or an estimation and may be used if user actual glazing is identical to input data described herein. Acoustic performance data herein is only applicable for glazing dimensions 1,23 m x 1,48 m (as per testing standard). Estimation of acoustic performance is based on component-similarity assumptions which are derived from measured data and interpolation to expand the database of values from test protocols. Actual performance may vary according to the glazing dimensions, frame system, noise sources and many other parameters. The acoustic performance data herein should not be used as a substitute for tests of actual glazing. For more information please consult Assumptions and Terminology section in Guardian Acoustic Assistant.

14 May 2019 | Acoustic database 20190508

BLOOR HOMES®