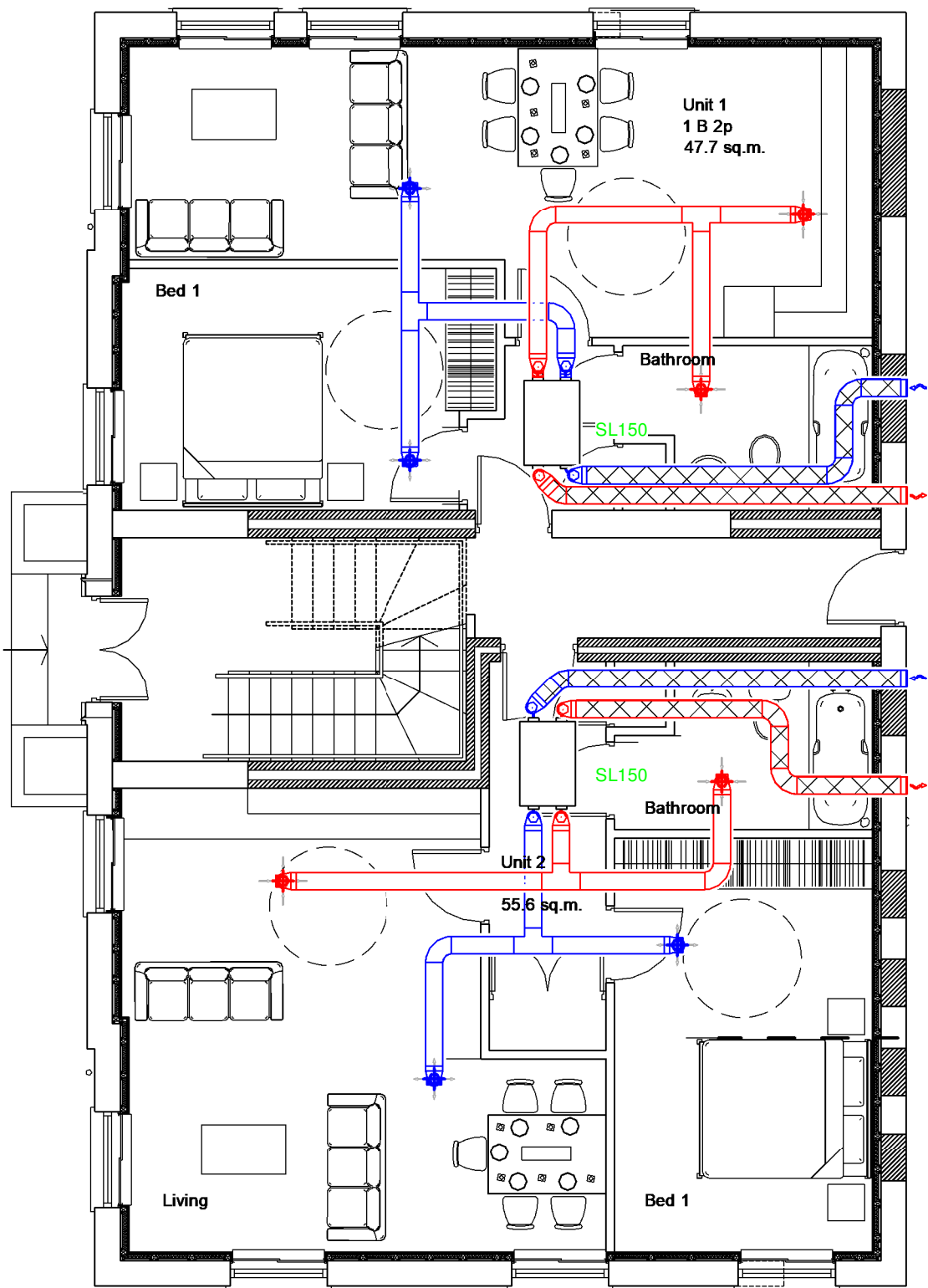




1:75 0 1 2 3 4 5 METERS

GROUND FLOOR

1. Envirovent Slimline 150 unit mounted at high level in ceiling void as indicated on the drawings.
2. Unit to run at continuous trickle speed with boost mode operated via manual boost switch or optional sensors.
3. The system utilises 125mm dia insulated flexible ducting & 204x60mm flat ducting. Any ducting requiring insulation is shown with cross hatching on the design.
4. Including ceiling mounted 125mm dia supply & extract adjustable diffusers within all habitable rooms.
5. Extract valves should include filter cone. Otherwise, ducting will require suitable access for cleaning.
5. Fast Track ducting includes anti-bacterial lining. Access for cleaning ducting can be made by removing ceiling valves and from the distribution box.
6. The unit requires a condensate drain to run to the nearest internal waste system. Drain should be fitted with non-return valve or trap.
7. Acoustically insulated flexible duct to be used to connect unit spigot to supply/extract rigid duct to rooms only. it must not be used for duct runs going to atmosphere.
8. Ducting in unheated area and to and from atmosphere must be suitably insulated.
9. The design assumes that the ceiling voids are sufficient to accommodate the ducting.

Minimum Flow Rates - Unit 1 (47.7sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	9.0 L/s
Bathroom	8.0 L/s	5.0 L/s
	21.0 L/s	14.0 L/s
Supply		
Living	16.0 L/s	12.0 L/s
Bedroom 1	11.0 L/s	8.0 L/s
	27.0 L/s	20.0 L/s

Minimum Flow Rates - Unit 5,6 (50sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	10.0 L/s
Bathroom	8.0 L/s	5.0 L/s
	21.0 L/s	15.0 L/s
Supply		
Living	16.0 L/s	12.0 L/s
Bedroom 1	11.0 L/s	8.0 L/s
	27.0 L/s	20.0 L/s

Minimum Flow Rates - Unit 2 (55.6sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	11.0 L/s
Bathroom	8.0 L/s	6.0 L/s
	21.0 L/s	17.0 L/s
Supply		
Living	16.0 L/s	14.0 L/s
Bedroom 1	11.0 L/s	9.0 L/s
	27.0 L/s	23.0 L/s

Minimum Flow Rates - Unit 9 (62sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	14.0 L/s	12.0 L/s
Bathroom	9.0 L/s	7.0 L/s
	23.0 L/s	19.0 L/s
Supply		
Living	10.0 L/s	9.0 L/s
Bedroom 1	13.0 L/s	11.0 L/s
Bedroom 2	9.0 L/s	8.0 L/s
	32.0 L/s	28.0 L/s

* Where the ducted system penetrates a fire compartment wall or ceiling, fire-stopping will be needed. Where a fire strategy is provided and fire stopping is requested, we will only provide a proposal. This proposal should be checked and approved by building control or a suitably qualified person.

Notes:

THIS SYSTEM HAS BEEN DESIGNED TO COMPLY WITH THE 2010 BUILDING REGULATIONS PART F - MEANS OF VENTILATION.

AS SUCH THE SYSTEM MUST BE INSTALLED AND COMMISSIONED AS PER THE DESIGN SPECIFICATION TO ENSURE COMPLIANCE WITH THE ABOVE MENTIONED. ADDITIONALLY THE COMMISSIONED SYSTEM MUST COMPLY WITH IET 18th EDITION WIRING REGULATIONS (BS7671).

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Project

GRAVESEND

Client

BBD LTD

Drawing

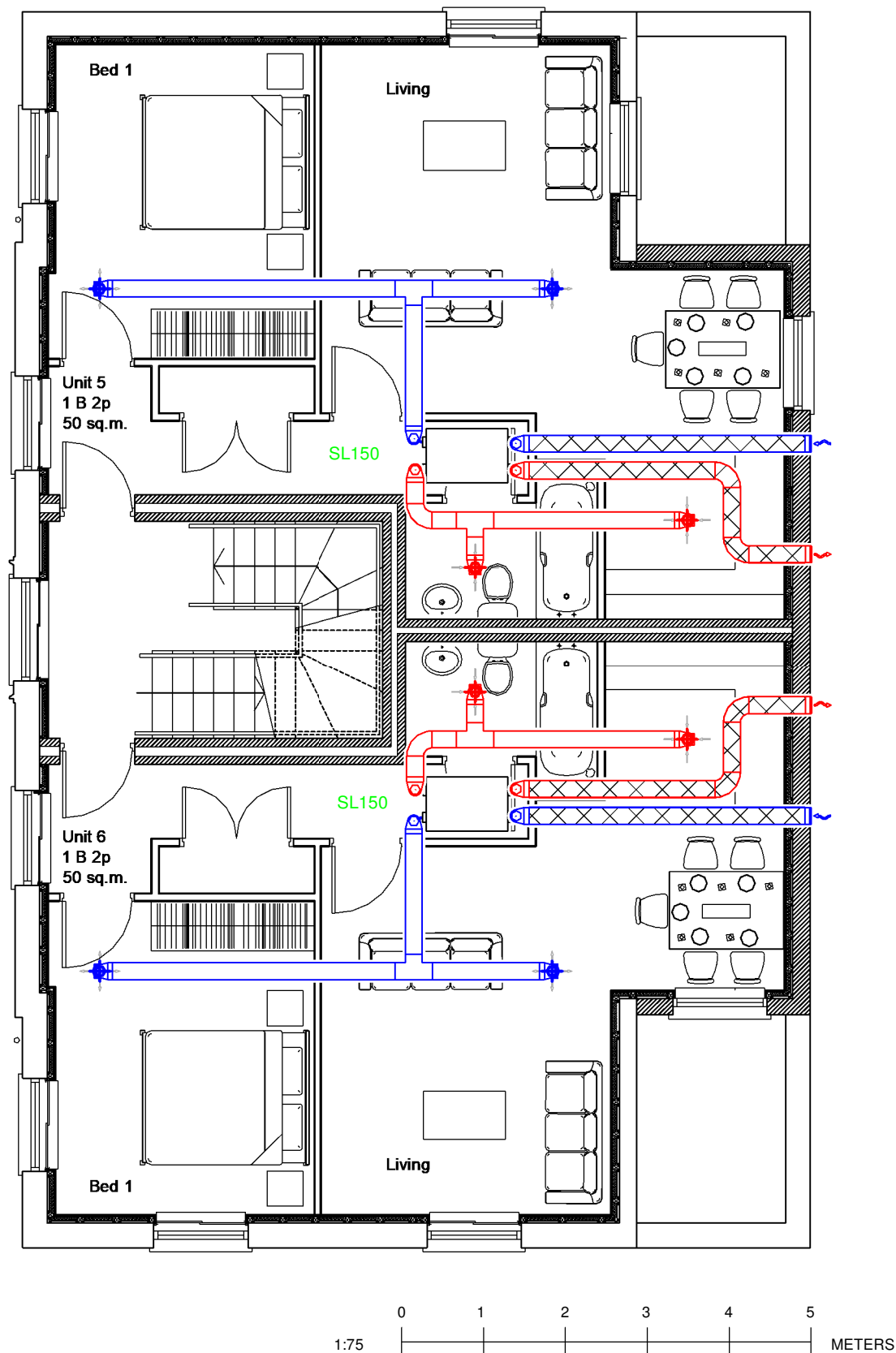
GROUND FLOOR

Designer

CZAREK KUBICA

Project No. ENV-08664	Drawing No. 1 OF 3	Revision A
Date 04/08/2021	Scale 1 : 75	Paper Size A3

GROUND FLOOR



1. Envirovent Slimline 150 unit mounted at high level in ceiling void as indicated on the drawings.
2. Unit to run at continuous trickle speed with boost mode operated via manual boost switch or optional sensors.
3. The system utilises 125mm dia insulated flexible ducting & 204x60mm flat ducting. Any ducting requiring insulation is shown with cross hatching on the design.
4. Including ceiling mounted 125mm dia supply & extract adjustable diffusers within all habitable rooms.
5. Extract valves should include filter cone. Otherwise, ducting will require suitable access for cleaning.
5. Fast Track ducting includes anti-bacterial lining. Access for cleaning ducting can be made by removing ceiling valves and from the distribution box.
6. The unit requires a condensate drain to run to the nearest internal waste system. Drain should be fitted with non-return valve or trap.
7. Acoustically insulated flexible duct to be used to connect unit spigot to supply/extract rigid duct to rooms only. it must not be used for duct runs going to atmosphere.
8. Ducting in unheated area and to and from atmosphere must be suitably insulated.
9. The design assumes that the ceiling voids are sufficient to accommodate the ducting.

Minimum Flow Rates - Unit 1 (47.7sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	9.0 L/s
Bathroom	8.0 L/s	5.0 L/s
	21.0 L/s	14.0 L/s
Supply		
Living	16.0 L/s	12.0 L/s
Bedroom 1	11.0 L/s	8.0 L/s
	27.0 L/s	20.0 L/s

Minimum Flow Rates - Unit 2 (55.6sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	11.0 L/s
Bathroom	8.0 L/s	6.0 L/s
	21.0 L/s	17.0 L/s
Supply		
Living	16.0 L/s	14.0 L/s
Bedroom 1	11.0 L/s	9.0 L/s
	27.0 L/s	23.0 L/s

Minimum Flow Rates - Unit 5,6 (50sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	10.0 L/s
Bathroom	8.0 L/s	5.0 L/s
	21.0 L/s	15.0 L/s
Supply		
Living	16.0 L/s	12.0 L/s
Bedroom 1	11.0 L/s	8.0 L/s
	27.0 L/s	20.0 L/s

Minimum Flow Rates - Unit 9 (62sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	14.0 L/s	12.0 L/s
Bathroom	9.0 L/s	7.0 L/s
	23.0 L/s	19.0 L/s
Supply		
Living	10.0 L/s	9.0 L/s
Bedroom 1	13.0 L/s	11.0 L/s
Bedroom 2	9.0 L/s	8.0 L/s
	32.0 L/s	28.0 L/s

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Notes:

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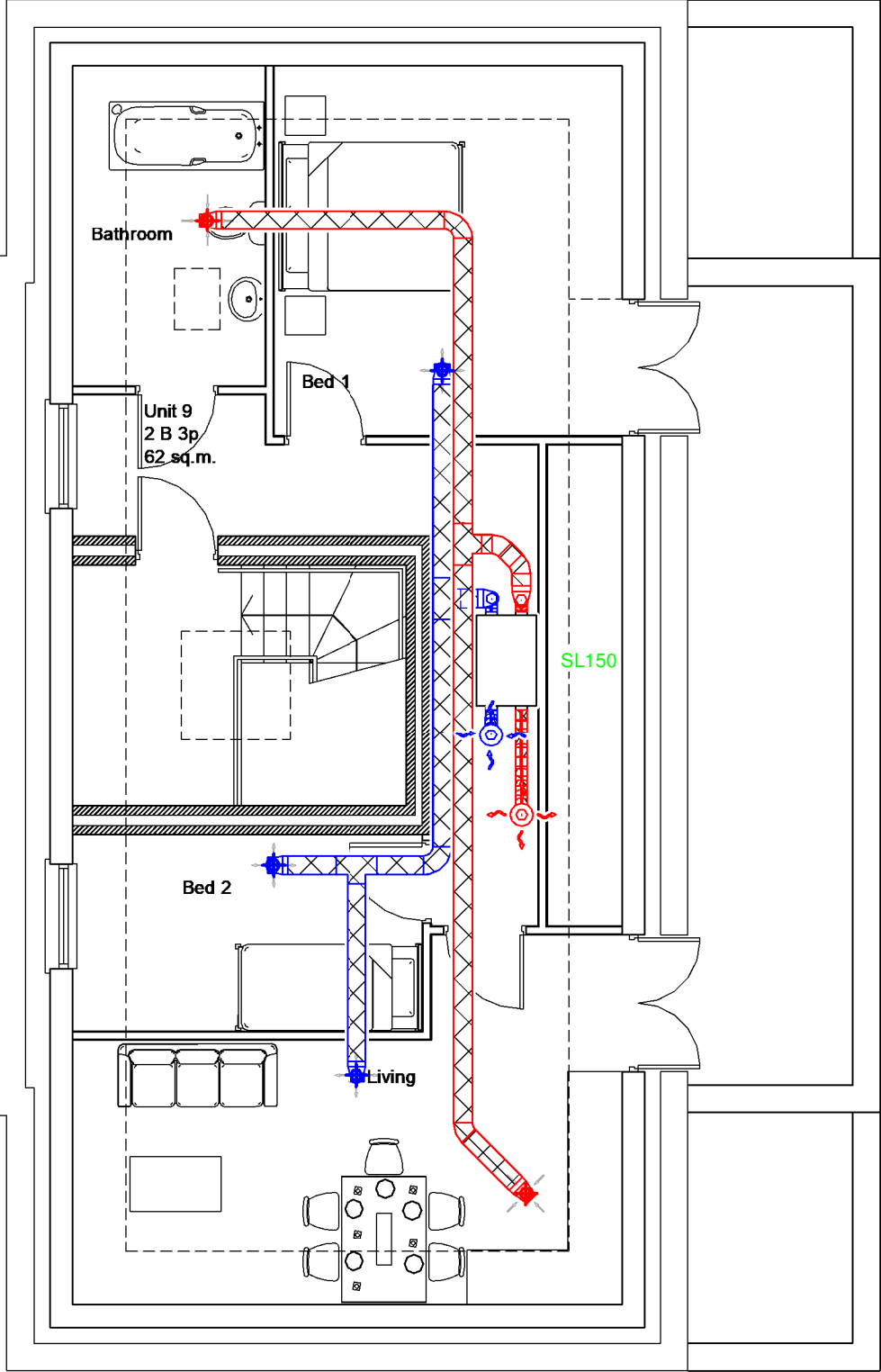
Project
GRAVESEND

Client
BBD LTD

Drawing
FIRST FLOOR

Designer
CZAREK KUBICA

Project No. ENV-08664	Drawing No. 2 OF 3	Revision A
Date 04/08/2021	Scale 1 : 75	Paper Size A3



SECOND FLOOR

1. Envirovent Slimline 150 unit mounted at high level in ceiling void as indicated on the drawings.
2. Unit to run at continuous trickle speed with boost mode operated via manual boost switch or optional sensors.
3. The system utilises 125mm dia insulated flexible ducting & 204x60mm flat ducting. Any ducting requiring insulation is shown with cross hatching on the design.
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5. Extract valves should include filter cone. Otherwise, ducting will require suitable access for cleaning.
5. Fast Track ducting includes anti-bacterial lining. Access for cleaning ducting can be made by removing ceiling valves and from the distribution box.
6. The unit requires a condensate drain to run to the nearest internal waste system. Drain should be fitted with non-return valve or trap.
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8. Ducting in unheated area and to and from atmosphere must be suitably insulated.
9. The design assumes that the ceiling voids are sufficient to accommodate the ducting.

Minimum Flow Rates - Unit 1 (47.7sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	9.0 L/s
Bathroom	8.0 L/s	5.0 L/s
	21.0 L/s	14.0 L/s
Supply		
Living	16.0 L/s	12.0 L/s
Bedroom 1	11.0 L/s	8.0 L/s
	27.0 L/s	20.0 L/s

Minimum Flow Rates - Unit 5,6 (50sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	10.0 L/s
Bathroom	8.0 L/s	5.0 L/s
	21.0 L/s	15.0 L/s
Supply		
Living	16.0 L/s	12.0 L/s
Bedroom 1	11.0 L/s	8.0 L/s
	27.0 L/s	20.0 L/s

Minimum Flow Rates - Unit 2 (55.6sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	13.0 L/s	11.0 L/s
Bathroom	8.0 L/s	6.0 L/s
	21.0 L/s	17.0 L/s
Supply		
Living	16.0 L/s	14.0 L/s
Bedroom 1	11.0 L/s	9.0 L/s
	27.0 L/s	23.0 L/s

Minimum Flow Rates - Unit 9 (62sqm)		
Room	Boost Rate	Trickle Rate
Extract		
Kitchen	14.0 L/s	12.0 L/s
Bathroom	9.0 L/s	7.0 L/s
	23.0 L/s	19.0 L/s
Supply		
Living	10.0 L/s	9.0 L/s
Bedroom 1	13.0 L/s	11.0 L/s
Bedroom 2	9.0 L/s	8.0 L/s
	32.0 L/s	28.0 L/s

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Project
GRAVESEND
Client
BBD LTD
Drawing
SECOND FLOOR
Designer
CZAREK KUBICA

Project No. ENV-08664	Drawing No. 3 OF 3	Revision A
Date 04/08/2021	Scale 1 : 75	Paper Size A3