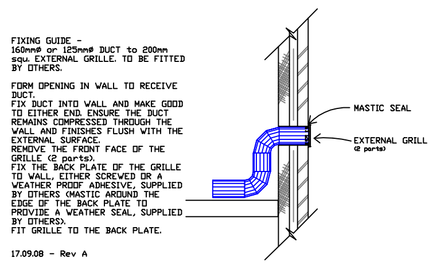
HOLE SIZES REQUIRED FOR PLAIN DUCT - CUT BY OTHERS

100mm PIPE - 125mm HOLE
125mm PIPE - 150mm HOLE
160mm PIPE - 185mm HOLE

204 x 60mm FLAT CHANNEL - 230 x 90mm HOLE
220 x 90mm FLAT CHANNEL - 245 x 110mm HOLE

BEFORE STARTING THE INSTALL THIS SYSTEM PLEASE READ THE INSTALLATION INSTRUCTIONS

DRAWING HAS BEEN PRODUCED BASED UPON SOLID JOISTS RUNNING FRONT TO BACK & SIDE TO SIDE



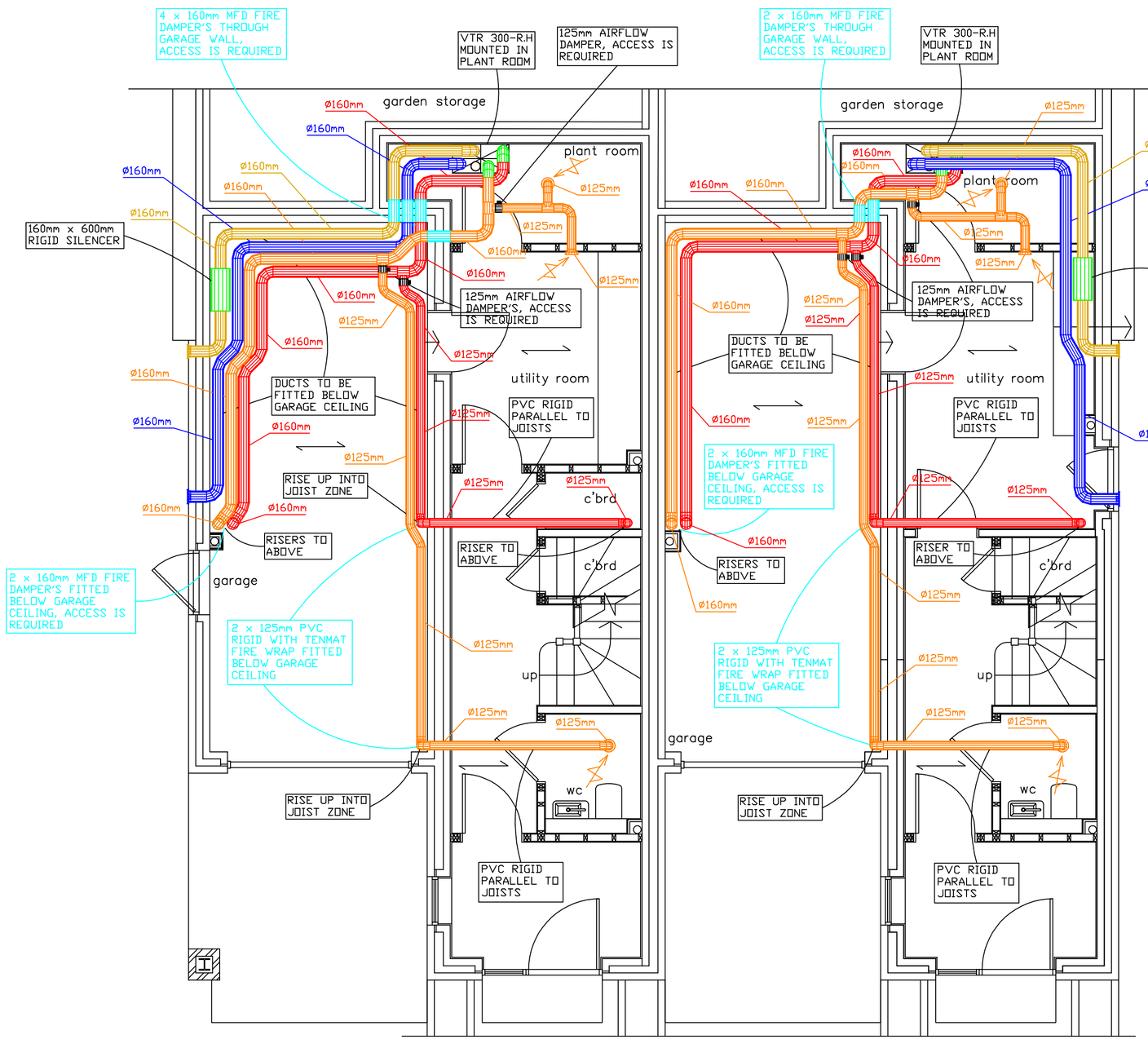
FIXING GUIDE -
160mm or 125mm DUCT to 200mm sq. EXTERNAL GRILLE. TO BE FITTED BY OTHERS.

FORM OPENING IN WALL TO RECEIVE DUCT.
FIX DUCT INTO WALL AND MAKE GOOD TO EITHER END. ENSURE THE DUCT REMAINS COMPRESSED THROUGH THE WALL AND FINISHES FLUSH WITH THE EXTERNAL SURFACE.
REMOVE THE FRONT FACE OF THE GRILLE ASSEMBLY.
FIX THE BACK PLATE OF THE GRILLE TO WALL, EITHER SCREWED OR A WEATHER PROOF ADHESIVE, SUPPLIED BY OTHERS (MASTIC AROUND THE EDGE OF THE BACK PLATE TO PROVIDE A WEATHER SEAL, SUPPLIED BY OTHERS).
FIT GRILLE TO THE BACK PLATE.

17.09.08 - Rev A

160mm STALE AIR EXHAUST.
Insulated Duct
Grille Colour: Beige
Grille Fitted By Others

160mm FRESH AIR INTAKE.
Insulated Duct.
Grille Colour: Beige
Grille Fitted By Others



PLOT-1

PLOT-2

FRESH AIR INTAKE & STALE AIR EXHAUST TO BE AT LEAST 2mts APART TO AVOID CROSS-CONTAMINATION

160mm STALE AIR EXHAUST.
Insulated Duct
Grille Colour: Beige
Grille Fitted By Others

160mm FRESH AIR INTAKE.
Insulated Duct.
Grille Colour: Beige
Grille Fitted By Others

PLOT-1				
EXTRACT AIR FLOWS	BUILDING REGULATIONS 2010 PART F			
TOTAL FLOOR AREA: 150mts Squ	Normal l/sec	Actual Commissioned l/sec	Minimum Boost l/sec	Actual Commissioned l/sec
ROOM REQUIRES l/sec				
PLANT	5		7	
UTILITY	6		8	
WC	4		6	
KITCHEN	10		13	
ENSUITE 1	7		9	
ENSUITE 2	6		8	
BATHROOM	7		9	
TOTAL -	45		60	
SIGNED & DATE -		AIRFLOWS CALCULATED BY: BD		

NOTE: WHEN SETTING UP THE MVHR UNIT IN THE START UP WIZARD, UNDER AIRFLOW TYPE, THIS SHOULD BE SET TO MANUAL.

PLOT-1				
SUPPLY AIR FLOWS	BUILDING REGULATIONS 2010 PART F			
ROOM REQUIRES l/sec	Normal l/sec	Actual Commissioned l/sec	Minimum Boost l/sec	Actual Commissioned l/sec
DINING	9		11	
LIVING	9		11	
BEDROOM 1	8		10	
BEDROOM 2	7		10	
BEDROOM 3	7		10	
BEDROOM 4	5		8	
TOTAL -	45		60	
SIGNED & DATE -		AIRFLOWS CALCULATED BY: BD		

**PLEASE CONFIRM THE FIRE STRATEGY FOR MEANS OF ESCAPE AND FIRE COMPARTMENTATION AND WHERE FIRE DAMPER OR FIRE REGISTERS ARE REQUIRED.
IF IN DOUBT CONSULT WITH YOUR BUILDING CONTROL OFFICER.**

PLOT-2				
EXTRACT AIR FLOWS	BUILDING REGULATIONS 2010 PART F			
TOTAL FLOOR AREA: 150mts Squ	Normal l/sec	Actual Commissioned l/sec	Minimum Boost l/sec	Actual Commissioned l/sec
ROOM REQUIRES l/sec				
PLANT	5		7	
UTILITY	6		8	
WC	4		6	
KITCHEN	10		13	
ENSUITE 1	7		9	
ENSUITE 2	6		8	
BATHROOM	7		9	
TOTAL -	45		60	
SIGNED & DATE -		AIRFLOWS CALCULATED BY: BD		

NOTE: WHEN SETTING UP THE MVHR UNIT IN THE START UP WIZARD, UNDER AIRFLOW TYPE, THIS SHOULD BE SET TO MANUAL.

PLOT-2				
SUPPLY AIR FLOWS	BUILDING REGULATIONS 2010 PART F			
ROOM REQUIRES l/sec	Normal l/sec	Actual Commissioned l/sec	Minimum Boost l/sec	Actual Commissioned l/sec
DINING	9		11	
LIVING	9		11	
BEDROOM 1	8		10	
BEDROOM 2	7		10	
BEDROOM 3	7		10	
BEDROOM 4	5		8	
TOTAL -	45		60	
SIGNED & DATE -		AIRFLOWS CALCULATED BY: BD		

FOR CONSTRUCTION
GROUND FLOOR

THIS DRAWING DEPICTS RIGID DUCTING FOR LAYOUT PURPOSES ONLY. ALL DUCT SIZES INDICATED REPRESENT INTERNAL DIAMETERS FOR PLAIN DUCTING. ADD 25mm TO ALL DIMENSIONS SHOWN FOR THE PURPOSE OF CUTTING HOLES THROUGH FLOORS.

ANY AIR INTAKE TERMINALS MUST BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE REGULATIONS. AS A GUIDE REFER TO BS5440 WHICH STATES THAT AN AIR INTAKE MUST BE A MINIMUM DISTANCE OF 300mm FROM A GAS BOILER BALANCED FLUE (1000mm RECOMMENDED). PLEASE BEWARE WHEN FITTING THE FRESH AIR INTAKE.

ALL DOORS ARE TO HAVE AN UNDER CUT OF 7600mm squ, 10mm FOR A 762mm WIDE DOOR AND 9mm FOR A 838mm WIDE DOOR FROM THE FINISHED FLOOR LEVEL.

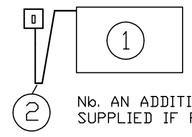
IT IS THE CLIENTS RESPONSIBILITY TO CO-ORDINATE THIS DRAWING WITH ALL OTHER SERVICES, STRUCTURAL STEEL WORK & ARCHITECTURAL DETAILS.

THE INSTALLATION OF ALL SYSTEMAIR PRODUCTS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE SYSTEMAIR QUALITY STANDARDS, TECHNICAL DATA SHEETS AND CURRENT WORKING PRACTICES.
ALL WIRING IS TO BE UNDERTAKEN BY AN APPROVED ELECTRICIAN AND IN ACCORDANCE WITH THE LATEST I.E.E. REGULATIONS.

- SUPPLY AIR TO PROPERTY
- EXHAUST AIR FROM PROPERTY
- FRESH AIR INTAKE
- STALE AIR EXHAUST
- ACOUSTIC DUCT
- FIRE DAMPER/ FIRE REGISTER.
- VP — VACUUM INLET

WIRING DIAGRAM
VTR 150, VTR 200, VTR 250, VTR 300 & VTR 500

1. UNIT (with Integral Controller)
2. CABLE FOR MAINS SUPPLY FROM UNIT TO 10 amp FUSED SPUR and 13 amp TO VTR 500



No. AN ADDITIONAL CONTROLLER CAN BE SUPPLIED IF REQUIRED.

INTERNET ACCESS MODULE (IAM) - WILL REQUIRE A RJ45 DATA SOCKET CONNECTED TO A ROUTER AND A SINGLE GANG USB SOCKET OUTLET

DUCTING.

- SEMI RIGID PRE-INSULATED IN THE ROOF SPACE, GARAGE & PLANT ROOM.
- RIGID & PVC RIGID VERTICAL RISERS & HORIZONTAL RUNS PARALLEL TO JOISTS.
- PLAIN SEMI RIGID TAIL'S TO REGISTERS & IN BULKHEAD ABOVE KITCHEN CPD'S.
ALL DUCT CONNECTIONS WITH SEMI RIGID DUCT ARE TO BE SECURED WITH A min OF 2 SCREWS, AS SUPPLIED.
INSULATION OVER TO BE TAPED.

REV	DATE	DESCRIPTION
B	26.11.19	FOR CONSTRUCTION ISSUE
A	07.11.19	CLIENT REVISIONS

CLIENT:
MR DARBY

PROJECT:
156 BRIGHTON RD,LANCING

SYSTEM:
HEAT RECOVERY VENTILATION

SCALE:	DRAWN BY:	SALES PERSON	FLOOR/LEVEL:
1:50 @ A1	JK	JH	GROUND

DATE:	DRWG. NO.:	REV:
26.11.19	1420428-19 - 001	B

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DO NOT SCALE FROM THIS DRAWING.

IF IN ANY DOUBT..... - ASK

MAR.14