

Notes:

HEALTH & SAFETY NOTE

ANY CONSTRUCTION OR CONSTRUCTION RELATED PERSONNEL INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH & SAFETY MATTERS & HAVE SIGHT OF:

1. THE FULL DESIGNERS & CONTRACTORS HAZARD & RISK ASSESSMENTS & RISK REGISTERS.
2. THE DEVELOPED CONSTRUCTION PHASE SAFETY & HEALTH PLAN.
3. THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

VENTILATION NOTES:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL M&E SERVICES AND ARCHITECTURAL DRAWINGS AND M&E SERVICES SCHEDULES AND SPECIFICATION DOCUMENTS.
2. ANY DUCTWORK OUTSIDE THE THERMAL INSULATED ENVELOPE TO BE INSULATED TO PREVENT CONDENSATION FORMING ON INTERNAL DUCT.
3. THE USE OF FLEXIBLE DUCTWORK IS TO BE AVOIDED WHERE POSSIBLE. WHERE REQUIRED FOR FINAL CONNECTIONS, THE LENGTH OF ANY FLEXIBLE SECTION SHALL NOT EXCEED 300MM.
4. WHERE FLEXIBLE DUCTWORK IS USED CARE SHOULD BE TAKEN TO ENSURE IT IS NOT FLATTENED.
5. ALL DUCTWORK JOINTS MADE IN INACCESSIBLE LOCATIONS (WITHIN CEILING VOIDS/WALL PARTITIONS) TO BE MADE USING NON HARDENING SEALANT. DUCT TAPE WILL NOT BE ACCEPTABLE.
6. ALL DUCTWORK JOINTS MADE IN INACCESSIBLE LOCATION (WITHIN CEILING VOIDS/WALL PARTITIONS) TO BE MADE USING NON HARDENING SEALANT.
7. ALL JOINTS TO BE TAPED & SEALED.
8. ALL PENETRATIONS OF FIRE COMPARTMENTS (CEILINGS ETC) IN EACH HOUSE SHALL BE FIRE STOPPED IN FULL ACCORDANCE WITH IRISH BUILDING REGULATIONS DOCUMENT B, FIRE SAFETY VOLUME 2.
9. FIRE DAMPERS TO BE INSTALLED IN ALL FIRE WALLS & TO BE DUMAS SYSTEM 25 INTUMESCENT DUCT CLOSER 2 HOUR FIRE RATED TESTED TO BS 476 PART 20 1987.
10. THE AERECO BXCFS30 METAL FIRE COLLAR SHALL BE INSTALLED AT ALL PENETRATIONS OF CEILINGS. THIS DEVICE IS SPECIALLY DESIGNED FOR THE AERECO BXC EXTRACT UNITS & PROVIDES 30 MINS FIRE PROTECTION FOR CEILING PENETRATIONS. THE DEVICE IS FULLY COMPLIANT WITH TGD PART B. THE DEVICE SHALL BE TESTED TO EN 1365-2:2014. THIS DEVICE CAN BE USED IN TRADITIONAL TIMBER JOIST, OPEN WEB METAL/ENGINEERED JOISTS OR WHERE CROSS BATTENING TO INTRODUCE A SERVICE VOID IS USED. THE DEVICE HAS ALSO BEEN TESTED IN WEB JOIST FLOOR STRUCTURES.
11. ALL KITCHEN EXTRACT HOODS TO BE SUPPLIED & INSTALLED BY OTHERS.
12. ALL VENTILATION SYSTEM DUCTING INSTALLED IN PLASTIC TO HAVE AIR TIGHTNESS CLASS D & TO BE ANTI-STATIC.
13. THE DCV CENTRAL ACOUSTIC FAN UNIT SHALL BE MOUNTED ON A PROPRIETARY TIMBER SUPPORT BASE PROVIDED BY THE MAIN CONTRACTOR.
14. ALL DUCTWORK SHALL BE CORRECTLY AND ADEQUATELY SUPPORTED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
15. ALL DUCTWORK & ASSOCIATED FITTINGS & SUPPORTS SHALL BE SUPPLIED & INSTALLED AS PART OF THIS CONTRACT.
16. THE DCV SYSTEM MUST BE INSTALLED WITH DUCTWORK & FITTINGS WHICH ARE TESTED, CERTIFIED & APPROVED FOR USE WITH THE SELECTED DCV FAN UNIT.
17. ONLY VENTILATION DUCTS OUTSIDE THE HEATED ZONE, I.E. ABOVE THE INSULATION LEVEL NEED TO BE INSULATED.
18. ALL DUCTS REQUIRING INSULATION SHOULD BE PROVIDED WITH THE EQUIVALENT OF AT LEAST 25mm OF INSULATION MATERIAL WITH A THERMAL CONDUCTIVITY OF 0.04 W/mK.
19. ALL SUPPLY AIR INLETS SHOULD BE CAPABLE OF MEETING THE DESIGNED & INTENDED AIRFLOW RATE AT ALL TIMES. FOR ANY DESIGN AIR PERMEABILITY, CONTROLLABLE BACKGROUND VENTILATORS HAVING A MINIMUM EQUIVALENT FREE AREA OF 2,500mm² SHOULD BE FITTED IN EACH ROOM EXCEPT WET ROOMS FROM WHICH AIR IS EXTRACTED.

DEMAND CONTROLLED VENTILATION (DCV) LEGEND:

 BXCI898 HUMIDITY SENSITIVE DELAYED PIR EXTRACT UNIT 12-70/70M3/H, BOOST VIA MOTION SENSOR, Ø125mm.

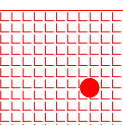
 BXCI900 HUMIDITY SENSITIVE EXTRACT UNIT 12-70/70M3/H, STATUS INDICATOR Ø125mm.

NOTES:

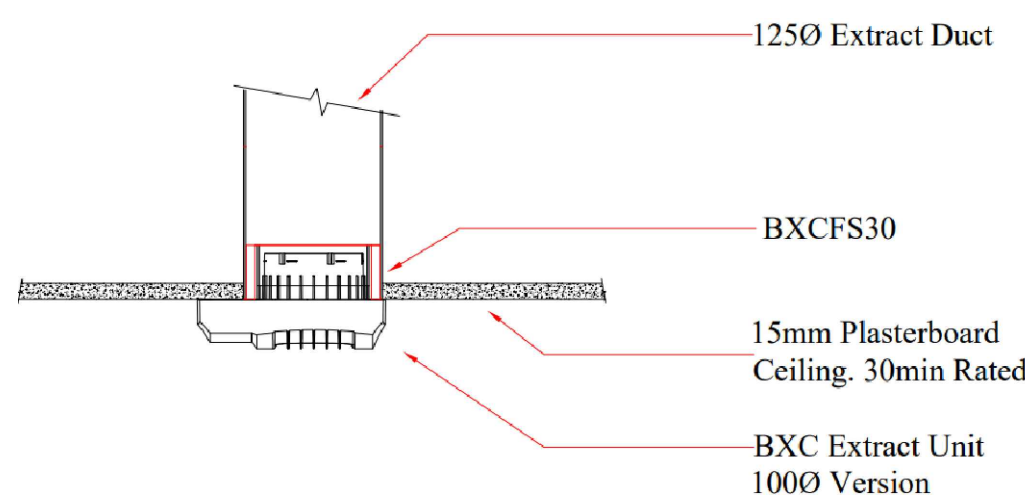
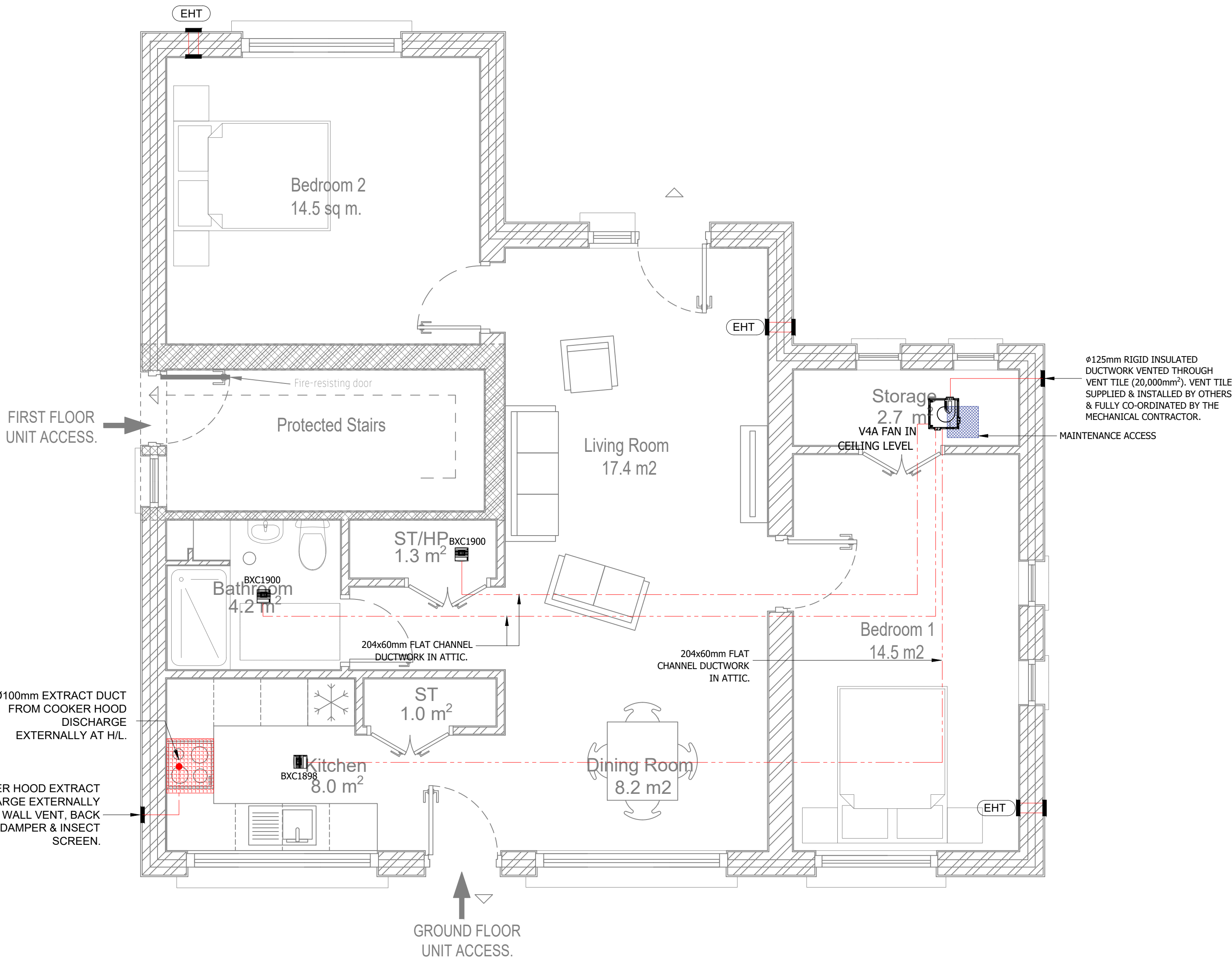
ALL DEVICES SHALL BE HARD WIRED IN 12V 2x1.0mm².

 PREMIUM CENTRAL ACOUSTIC FAN

 ACOUSTIC KIT: EHT + CANOPY WITH INSECT GRILLE, 100MM PLASTIC WALL SLEEVE & AIRFLOW CONTROLLER SEALED WITH ACOUSTIC SEALING FOAM. MECHANICAL CONTRACTOR TO CO-ORDINATE LOCATION & CORING DIMENSIONS WITH MAIN CONTRACTOR

 KITCHEN CANOPY SUPPLIED & INSTALLED BY OTHERS.

--- DENOTES 204x60mm FLAT CHANNEL DUCTWORK INSTALLED IN ATTIC/CEILING VOID/WITHIN PARTITIONS ETC.



INSTALLATION OF FIRE COLLAR WITH EXTRACT UNIT BRACKET.



BXCF30 METAL FIRE COLLAR (30 min. INTEGRITY).



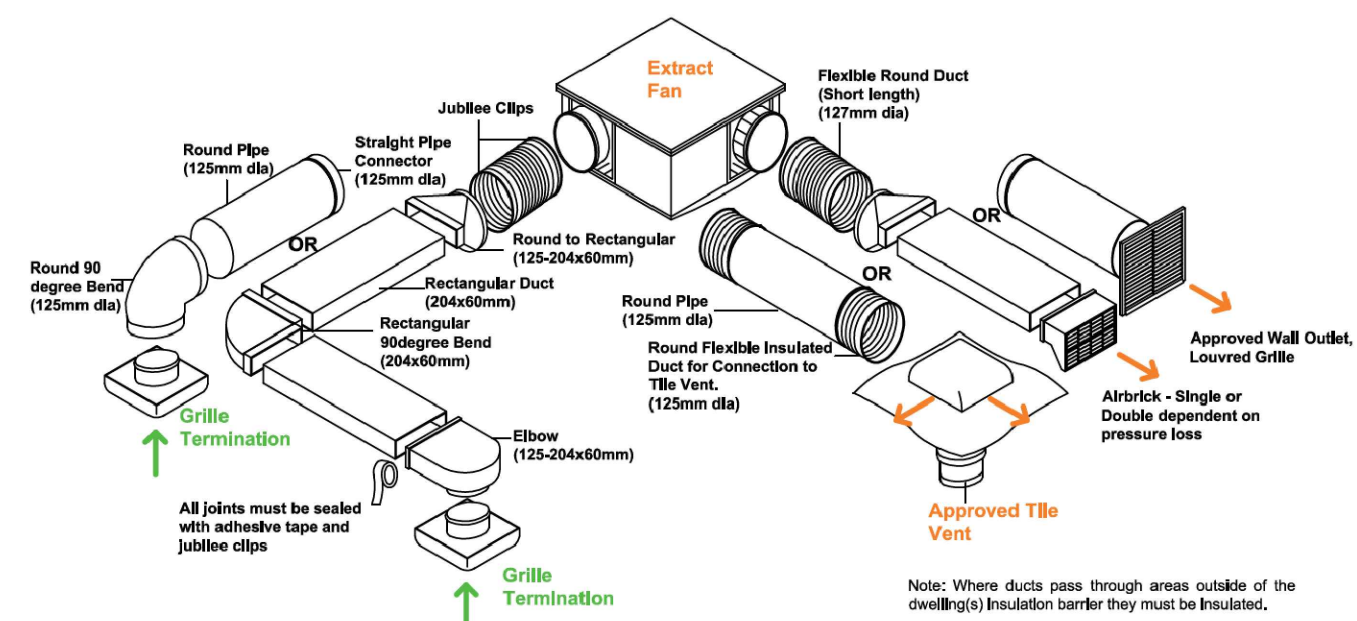
FIRE COLLAR INSITU.



FIRE COLLAR WITH FLAT DUCTING.



FIRE COLLAR PRIOR TO INSTALLATION



TYPICAL DCV SYSTEM ASSEMBLY



FAN UNIT.



WALL MOUNTED EHT1984 ACOUSTIC KIT.

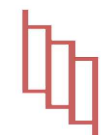


CEILING MOUNTED BXC UNIT.



DESIGN ROOM VALVES

T	For Tender	VP	18.04.25
REV:	DESCRIPTION:	BY:	DATE:
STATUS:			


CBS Consulting Engineers
MECHANICAL & ELECTRICAL ENGINEERS


Limerick
CITY & COUNTY
COUNCIL

SITE:	Residential Development at 58 Mayorstone, Limerick		
TITLE:	Ventilation Ground Floor Layout		
SCALE:	AT A1: 1:40	DATE: 18.04.25	DRAWN: VP
PROJECT NO:	DRAWING NO: M301	CHECKED: RY	REVISION: T