



Typical Extract Fan  
Scale: 1:10

### Notes

- This drawing shall be read in conjunction with all Mechanical and Electrical drawings, Schedules and Specification.
- Contractor to allow for on site co-ordination with the structure and other services and the production of fully dimensioned working drawings prior to installation.
- All equipment to be installed in accordance with the manufacturers instructions.
- All Apartment ventilation installations shall be installed in accordance with the building regulation (in particular Parts B, F&L1A), NHBC, BS5588, BS 5925, BS EN 13465.
- All Apartment ventilation ductwork shall comprise white coloured rigid PVC flat ducting and components in standard sizes of 220x90mm or 204x60mm which correspond to 150mm $\phi$  and 100mm $\phi$  respectively. Flat duct systems shall be interchangeable with white coloured rigid PVC circular ducting via appropriate adaptors.
- All changes of direction shall utilize 45° bends wherever possible in order to reduce system resistance and noise due to turbulence. If, 90° bends are utilized they shall not be installed in close proximity to each other and double bend sets shall be avoided. All ductwork shall be secured to the structure via the appropriate channel clips or brackets.
- Connections to external louvres shall be via bespoke transition pieces manufactured from either rigid PVC sections or galvanised sheet steel, ensuring angle of taper is not greater than 30° and includes at least one internal splitter to even air flow across full face of louvre. All louvre transitions must be thermally insulated and vapour sealed.
- All ductwork component joints shall be solvent welded socket & spigot arrangements using a suitable PVC solvent adhesive, being sealed completely air tight with white coloured silicone duct sealant and having duct tape applied around the full joint / seam upon completion. All ductwork must be installed to "Class A" pressure classification as stipulated in HVCA Specification DW144 and achieve an "Intermediate Level" cleanliness standard as defined in HVCA Specification DW/TM2, being tested upon completion and prior to commissioning.
- Ensure that any rectangular or circular rigid PVC duct passing through a designed fire barrier is provided with an intumescent "Fire Wrap" sleeve having metal collar, capable of fully compressing the ductwork to completely seal the opening and prevent the passage of air. Fire sleeves/collars shall be installed within the opening using the surrounding structure to provide lateral support on all side in operation. All openings for fire sleeves & collars shall be made good with intumescent duct sealant ensuring gaps are completely filled to their full depth or thickness.
- Kitchen specialist to supply and fit kitchen extract canopy with sufficient duty to meet Part F Building Regulations.
- FCU plenum and supply ductwork to be internally acoustically treated with pyro foam in accordance with the requirements of the acoustic consultant.
- All supply & extract ductwork from the MVHR unit to atmosphere shall be insulated.
- All penetrations through FCU return air plenum are to be hermetically sealed.

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DO NOT scale from this drawing - site measure only.

### Legend

- ATT - Attenuator
  - EG - Extract grille
  - EF - Extract fan
  - EL - Extract louvre
  - FCU - Fan coil unit
  - MVHR - Mechanical ventilation heat recovery unit
  - LSG - Linear slot grille
  - SD - Set down
  - SG - Supply grille
  - SL - Supply louvre
  - SU - Set up
- 
- - Supply ductwork
  - - Extract ductwork
  - - Fresh air ductwork
  - - Exhaust ductwork
  - - Insulated ductwork
  - Denotes boundary of ceiling void plenum
  - Denotes ductwork to be acoustically lined
  - - Supply air path
  - ← - Return air path

Rev	Date	Description
T3	Oct'16	Tender Issue. Amendments clouded
T2	Sep'16	Tender Issue
T1	May'16	Tender Issue

Client

Project Title  
**KIDDERPORE AVENUE  
LONDON**

Drawing Title  
**SKEEL HOUSE  
LEVEL 02  
VENTILATION LAYOUT**

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Drawn	Date	Checked	Approved
LS	MAY'16	GS	PK

  

Scale	Size	Issue
1:50	<input type="radio"/> A4 <input type="radio"/> A3	<input type="radio"/> Preliminary <input checked="" type="radio"/> Tender
	<input checked="" type="radio"/> A1 <input type="radio"/> A0	<input type="radio"/> Construction <input type="radio"/> Contract

Drg. No. **9200-DRG-39SK-02001** Rev **T3**



Typical Extract Air Valve / Grille

Architects layouts do not tie up with Bowler James document:  
BJB 160518\_Skeel\_Concept Design Package

Awaiting fire strategy drawing

Grille locations to be co-ordinated with reflected ceiling plans when available

Drawing based on A & Q drawing no. 9000-DRG-03SK-MZ010 - Rev - T1

