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- Notes**
- This drawing shall be read in conjunction with all other services, Architectural drawings, project specifications and contract documentation.
 - All grilles and diffusers to have opposed blade dampers.
 - All ductwork to DW14/DW172 (where applicable).
 - Flex to be used only straight/all bends to be rigid.
 - Fire/Smoke dampers to be located in accordance with fire strategy drawing requirements as Fire Engineers report.
 - Access doors to be located adjacent to fire dampers and every 3m.
 - All branch connections shall have VCD's.
 - All diffusers and grilles to be supported by structure.
 - In positions of restricted headroom, ducts may be supported with flat bar formed to duct shape with fixings at sides on bent legs.
 - All ductwork brackets to have an acoustic soft rubber or neoprene interface layer to the duct.
 - All supply ductwork, including supply plenum boxes to be thermally insulated.
 - All references to specific manufacturers are made for design specification purposes, installed equipment should be of equal standard and approved.
 - All fan coil units are to be fitted with 22mm condensate drains and pumps.
 - All louvres to be 50% free area.
 - All motorised volume control dampers are to be controlled based on CO2 level by a local CO2 sensor within its dedicated zone.

Grille Reference	Volume (l/s)	Type	Size (mm)	Colour
EG-3-01	18	Air Valve VC	150Ø	White
EG-3-02	18	Air Valve VC	150Ø	White
EG-3-03	18	Air Valve VC	150Ø	White
EG-3-04	18	Air Valve VC	150Ø	White
EG-3-05	18	Air Valve VC	150Ø	White
EG-3-06	18	Air Valve VC	150Ø	White
EG-3-07	18	Air Valve VC	150Ø	White
EG-3-08	18	Air Valve VC	150Ø	White
EG-3-09	18	Air Valve VC	150Ø	White
SG-3-01	20	Air Valve VA	150Ø	White
SG-3-02	20	Air Valve VA	150Ø	White
SG-3-03	20	Air Valve VA	150Ø	White
SG-3-04	20	Air Valve VA	150Ø	White
SG-3-05	20	Air Valve VA	150Ø	White
SG-3-06	20	Air Valve VA	150Ø	White
SG-3-07	20	Air Valve VA	150Ø	White
SG-3-08	20	Air Valve VA	150Ø	White
SG-3-09	20	Air Valve VA	150Ø	White

Grille Schedule

Damper Ref	Level	No	Duct Size (mmØ)	Model / Type / Series	Require Fire/Smoke Damper Rating (Hours)	Actuated or Fusible Link	Visual Position Indicator	Mounting Orientation	Installation Frame
FD 3	1	250	85B/FSD-TD 250	250	2	Actuated	Y	Wall	I/F
FD 3	2	250	85B/FSD-TD 250	250	2	Actuated	Y	Wall	I/F
FD 3	3	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	4	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	5	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	6	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	7	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	8	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	9	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	10	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	11	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	12	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	13	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	14	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	15	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	16	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	17	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	18	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F
FD 3	19	100	85B/FSD-TD 100	100	1	Actuated	Y	Wall	I/F
FD 3	20	125	85B/FSD-TD 125	125	1	Actuated	Y	Wall	I/F

Notes

Fire dampers selection have been based on the manufacturer Actionair Ltd (alternatives to be equal and approved).

Prior to order, fire dampers No's to be checked against the latest fire strategy report/drawings.

Actuated fire/smoke dampers are to be controlled via a smoke damper control panel. Control panel shall come complete with a BMS output relay, Global Test/Normal/Override keyswitch, and linked to the fire alarm panel. The control panel to be of type 'Actionpac EMS'

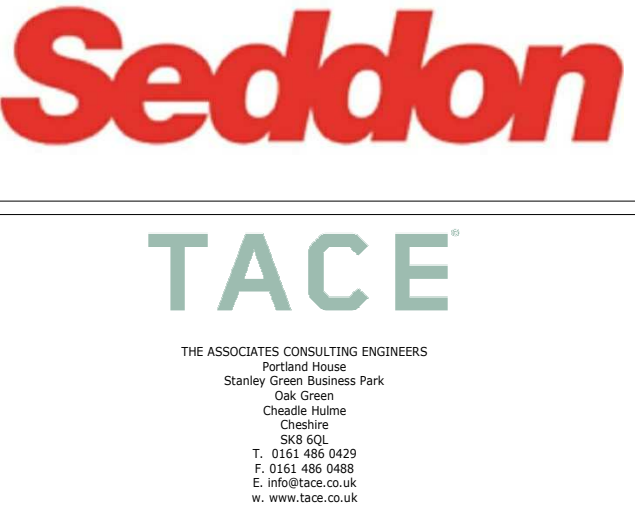
Proposed damper connection boxes shall be factory fitted and pre-wired to failsafe actuators of type Mode 5 PTC SMK ETR 72°C 24V.

All failsafe actuators are proposed to be of type Mode 5 PTC SMK ETR 72°C 24V.

All electrical requirements are to be advised to the electrical contractor.

Fire damper control panel to be linked to fire alarm, and monitored for fault conditions via the BMS panel.

C07	SS/JF	01.12.20	Stage 5 Issue.
C06	SS	14.10.20	Stage 5 Issue. Section added.
C05	SS	28.09.20	Stage 5 Issue.
C04	JM	19.02.20	Fire damper references and schedule added.
C03	JM	06.08.19	Drawing number amended.
C02	JM	16.07.19	Stage 5 Issue
C01	JM	24.06.19	Stage 5 Issue
Rev	By	Date	Description



Seddon				
Project				
Chorlton Street Hotel				
Drawing title				
Third Floor Ventilation Layout				
Drawn JF		Date 04/12/18	Revit File Path PA1338 Chorlton Street R18	
Checked NG		Scale 1:50 @ A1		
Approved NG				
Project No. PA1338		Drawing number M-304		Rev C07