



NOTES

- ALL DUCTWORK SYSTEMS INSTALLED IN ACCORDANCE WITH DW144 SPECIFICATION FOR SHEET METAL DUCTWORK FOR LOW PRESSURE "CLASS A" SYSTEMS.
- ALL DUCTWORK MANUFACTURED FROM HOT DP GALVANISED STEEL TO BS EN10119:1991, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- RECTANGULAR DUCTWORK CROSS JOINTS SHOULD BE SEALED IN ACCORDANCE WITH DW144 FIGS 10, 13&14, FASTENINGS AND MAXIMUM SPACINGS IN ACCORDANCE WITH SECTION 10.7.
- CIRCULAR DUCTWORK SPIRAL WOUND AND STRAIGHT SEMI-JOINTS SEALED IN ACCORDANCE WITH DW144 FIGS 32-45, FASTENINGS AND MAXIMUM SPACINGS IN ACCORDANCE WITH SECTION 13.3.
- ACCESS PANELS PROVIDED ADJACENT TO ALL FIRE DAMPERS, UNLESS, REMOTE ACCESS TYPE COMBINED FIRE DAMPER VCD'S ARE TO BE USED.
- ALL ACCESS/INSPECTION HATCHES ARE PROPRIETARY MANUFACTURED WITH QUICK RELEASE CATCHES AND SELF SEALING GASKETS.
- ALL ACCESS/INSPECTION PANELS REMAIN ACCESSIBLE, THE INSULATION CONTRACTOR HAS SUITABLY DRESSED THE EDGES OF THE INSULATION TO THE EDGE OF THE ACCESS OPENING.
- THE USE OF FLEXIBLE DUCTWORK IS LIMITED TO 1000mm IN LENGTH TO MAKE FINAL CONNECTIONS ONLY - NOTE ADDITIONAL LENGTH MAY BE REQUIRED TO ALLOW TRANSITION TO PLENUM CONNECTIONS IN SOME AREAS.
- DUCTWORK MANUFACTURED WITH GRADUAL TRANSFORMATIONS AND CHANGES OF SHAPE/DIRECTION.
- FLEXIBLE CONNECTIONS INCORPORATED WITHIN THE DUCTWORK SYSTEM TO ISOLATE THE DUCTWORK DISTRIBUTION SYSTEM FROM VIBRATION PRODUCING EQUIPMENT.
- GRILLES AND DIFFUSERS PROVIDED WITH SUITABLE PURPOSE MADE PLENUM BOXES (SIDE OR TOP ENTRY SPIGOT AS NECESSARY) WHERE INDICATED.
- ALL GRILLES AND DIFFUSERS PROVIDED WITH BALANCING DAMPERS WITHIN THE DUCTWORK SERVING THE GRILLE OR DIFFUSER - SINGLE LEAF TYPE ON FINAL BRANCHES.
- ALL GRILLES AND DIFFUSERS HAVE A FINISH COLOUR TO SUIT THE ARCHITECT'S REQUIREMENTS.
- ALL AIR DISTRIBUTION DUCTS PASSING THROUGH ELEMENTS OF STRUCTURE FORMING FIRE COMPARTMENTS SHALL INCORPORATE A FIRE DAMPER, OR COMBINED FIRE AND SMOKE DAMPERS TO PREVENT SMOKE MIGRATION TO EMERGENCY ESCAPE ROUTES. DAMPER RATINGS SHALL BE AS PER THE FIRE STRATEGY DRAWING: 30min, 60min OR 90min.
- FIRE DAMPERS, OR COMBINED FIRE AND SMOKE DAMPERS SHALL BE PROVIDED IN THE LOCATIONS AS INDICATED ON THE DRAWINGS. THE SMOKE DAMPER PANEL SHALL BE LOCATED ADJACENT TO THE FIRE ALARM PANEL SERVING THE CSC AND SA AREAS.
- THE FIRE DAMPER BLADE IS OF STAINLESS STEEL CONSTRUCTION AND SHALL BE HELD IN THE OPEN POSITION BY MEANS OF A THERMAL RELEASE MECHANISM RATED AT 72°C +/- 2°C.
- ALL BRANCHES FROM THE MAIN DISTRIBUTION DUCTS ARE BY A SMOKE-BRANCH FITTINGS.
- ALL FRESH AIR INTAKE DUCTWORK IS INSULATED, VAPOUR SEALED AND WEATHERPROOFED WHERE NECESSARY (ATMOSPHERE SIDE ONLY AND/OR WHERE AIR SUPPLIED IS USED TO PROVIDE SPACE HEATING/COOLING). THE INSULATION HAS AN ENVIRONMENTAL THICKNESS BETWEEN 20MM AND 50MM (TO SUIT THE IN DUCT AND AMBIENT AIR TEMPERATURES) WITH A MAXIMUM THERMAL CONDUCTIVITY OF 0.035 W/mK.
- ALL ROOM SIDE DUCTWORK SYSTEMS, AND EXHAUST DUCTWORK SYSTEMS, ARE TO BE FULLY INSULATED: DISTRIBUTION OF CONDITIONED AIR WITH HEAT RECOVERY SYSTEMS.
- UPON COMPLETION OF THE WHOLE VENTILATION INSTALLATION THE SYSTEM IS BALANCED AND COMMISSIONED IN ACCORDANCE WITH CIBSE COMMISSIONING CODE A.

LEGEND

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| | SUPPLY / EXTRACT GRILLE - CIRCULAR | | VOLUME CONTROL DAMPER - RECTANGULAR |
| | SUPPLY / EXTRACT GRILLE - RECTANGULAR | | VOLUME CONTROL DAMPER - CIRCULAR |
| | FLEXIBLE DUCTWORK CONNECTION | | RISING / DROPPING DUCTWORK |
| | COMBINED FIRE / SMOKE DAMPER | | ATTENUATOR - CIRCULAR |
| | FIRE DAMPER | | ATTENUATOR - RECTANGULAR |
| | | | AIR TRANSFER / FLOW DIRECTION |

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Description	Drawn	Checked	Approved	Con App	Scale with caution as distortion can occur.

Legends/Notes:

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Registered in England
Registration No. 06791686
Registered office:
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Birmingham, B4 6GA

Stage	4	Project/Contract	Euston Station	Creator/Originator	PREMIER MODULAR	Sub-Originator	
Drawing Title	ROOF	Work Package Description	1200503	Discipline/Function	MECHANICAL	System Description	
Drawing Title	VENTILATION LAYOUT	Drawn by	JB	Checked by	ET	Approved by	MMc
1 of 2		Scale	1:50	Size	A0	Suitability	S4
		Rev.	C02				
Drawing No.	1CP01-MDS_PML-ME-DGA-SS08_SL23_F8-000008						