

NOTES

- DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT, ASK THE DRAWING SHOWS DESIGN INTENT. ONLY IF IT DOES NOT SHOW ALL DIMOS, TEST & SETS NECESSARY TO LOCATE SERVICES CORRECTLY TO AVOID CLASHES & ENSURE GOOD MAINTENANCE ACCESS. THE CONTRACTOR SHALL INCLUDE FOR THIS WITHIN THEIR COSTS.

LEGEND:

- EXISTING DUCTWORK
- EXTRACT AIR
- SUPPLY AIR
- FIRE DAMPER
- ISO-V/CO
- VOLUME CONTROL DAMPER
- SUPPLY OFFICER
- ISO
- EXTRACT GRILLE
- EG
- NATURAL VENTILATION

MECHANICAL VENTILATION SCOPE OF WORKS:

- ALL DUCTWORK TO BE GALVANISED STEEL MANUFACTURED TO BESA GROUP AHU/02/1 AND TR10. F SYSTEMS INSTALL ED STRICTLY IN ACCORDANCE WITH DIN 4740/1/2 THEN PRESSURE TESTING OF CLASS 3 GENERAL SUPPLY AND EXTRACT SYSTEMS IS NOT REQUIRED FOR THIS PROJECT. NOTE IF DEVIATION FROM THE STANDARDS IS OBSERVED ON SITE THEN PRESSURE TESTING WILL BE REQUIRED AT CONTRACTORS OWN EXPENSE.
- UNDER NO CIRCUMSTANCES SHALL FLEXIBLE DUCTWORK BE USED TO FORM 90° ELBOWS. FLEXIBLE CONNECTORS SHALL BE NO LONGER THAN 300mm AND MUST HAVE A MAXIMUM MISALIGNMENT OF 100mm.

ALL AIR TERMINALS ARE TO BE MANUFACTURED BY TEK LTD.

ALL GRILLES AND OFFERSERS SHALL BE EASILY CLEANED AND REMOVABLE

- EACH AIR TERMINAL SHALL BE SUPPLIED WITH A SIDE ENTRY SPROUT GALVANISED STEEL PERIMUR BOX IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER TO ACHIEVE OPTIMUM PERFORMANCE.

ALL AIR TERMINALS MUST BE PROVIDED WITH AN INTEGRAL OPPOSED BLADE DAMPER FOR FINE TUNING (MINIMUM 10mm).

ALL VOLUME CONTROL DAMPERS TO BE MANUFACTURED BY ACTONAIR AND SHALL BE AS BELOW:

- 1) HAVE SINTERED BLADE END BEARINGS. STAINLESS STEEL TOP AND SIDE SPRINGS

2) BE INSTALLED WITHIN A GALVANISED STEEL FRAME WITH BLADE DRIVE MECHANISM OUTSIDE THE AIR STREAM.

3) BE OPERATED BY A LOCKABLE RAW. INDOS WHICH SHALL BE LOCKED IN PLACE AFTER COMMISSIONING.

4) INCLUDE A GRADUATED PLATE WHICH CLEARLY INDICATES DAMPER POSITION AND IS CLEARLY MARKED WITH FINAL POSITION AFTER COMMISSIONING. IT SHALL BE POSSIBLE TO DETERMINE DAMPER POSITIONS FROM EXTERNAL VISUAL INSPECTION WITHOUT SPECIAL ACCESS REQUIREMENTS.

ACCESS DOORS SHALL BE INSTALLED FULLY IN ACCORDANCE WITH BESA DOW DOCUMENTS

- ALL SUPPLY DUCTWORKS TO BE THERMALLY INSULATED USING 50mm MINERAL WOOL INSULATION
- ALL EXTRACT DUCTWORK TO BE THERMALLY INSULATED USING 40mm MINERAL WOOL INSULATION

- THE CONTRACTOR SHALL INCLUDE FOR:
 - ALL PRIMARY AND SECONDARY SUPPORT SYSTEMS TO INSTALL THE PLANT AND ALL ASSOCIATED SERVICES.
 - SUPPORT SYSTEMS/BRACKETS FOR ALL SERVICES.

- VALIDATION IS TO BE CARRIED OUT PRIOR TO COMMENCEMENT OF WORKS BY AN INDEPENDENT VALIDATION ENGINEER IN ACCORDANCE WITH HINDS/017 2021 SECTION 12.1.
- THE CONTRACTOR SHALL ENSURE THAT ACCURATE RECORDS ARE TAKEN FOR ALL CHECKS AND MEASUREMENTS UNDERTAKEN WITHIN THE COMMISSIONING SCOPE OF WORKS.

AIR TERMINAL SCHEDULE					
SUPPLY DIFFUSERS					
REF	TYPE	DUTY (lit/s)	SIZE (mm x mm)	PRESSURE DROP	NOISE LEVEL (NR)
SD-01	4 WAY LOUVRE FACED	36	225 x 225	<10	25
SD-02	4 WAY LOUVRE FACED	36	225 x 225	<10	25
SD-03	4 WAY LOUVRE FACED	36	225 x 225	<10	25
SD-04	4 WAY LOUVRE FACED	180	375 x 375	<10	25
EXTRACT GRILLES					
REF	TYPE	DUTY (lit/s)	SIZE (mm x mm)	PRESSURE DROP	NOISE LEVEL (NR)
EG-01	4 WAY LOUVRE FACED	36	225 x 225	<10	25
EG-02	4 WAY LOUVRE FACED	36	225 x 225	<10	25
EG-03	4 WAY LOUVRE FACED	36	225 x 225	<10	25
EG-04	4 WAY LOUVRE FACED	180	375 x 375	<10	25
SELECTIONS LISTED ARE BASED ON TEK GROUP 1 LTD.					

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