



**NOTES:**

**SUBMETAL DUCTING:**  
The material, construction and dimensions of all steel ductwork together with fittings and devices for use in smoke-vent systems that operate at low, medium and high pressure must be in accordance with the requirements of SABS 1235-1975.  
The installation, testing and balancing of all low, medium and high pressure, galvanneal steel, aluminium or stainless steel ductwork, to be used for smoke exhaust systems, shall be carried out in accordance with the requirements of SABS 0173-1989.  
Where any work involves waterproofing or external walls, supply all necessary sealers, caulking and flashing required to make openings watertight.  
Ventilating and flashing details shall be approved by the Engineer.  
In the event that manufacturing details of any specified ducting are not covered by the relevant SABS specifications, then the nearest SABS/AS/NZS standards will be applicable provided that the thickness of sheetmetal will not be less than that specified under SABS standards.

**DAMPERS:**  
All dampers shall be so installed as to be accessible at any time after completion of work. It shall be the responsibility of the Subcontractor to ensure that adequate access panels are provided whenever the adjusting mechanism is concealed by suspended ceilings, soffits, etc. Damper rods shall not be less than 12mm square and may be either continuous or short stubs secured to the blade by not less than two bolts or rivets at each end.  
Damper blades shall be of galvanneal sheetmetal construction, free of ruffling and vibration, with edges crimped or creased for rigidity and provided with neoprene sealing strips over full length and ends to ensure positive sealing action when closed.

**PAINTING, GALVANISING & FINISHING:**  
All equipment, materials and fixtures installed under this contract shall be protected against rust, oxidation and corrosion by the application of an approved protective coating.  
Such protective coatings shall be compatible with the materials applied to and shall at all times conform to the application instructions or recommendations of the manufacturer.

**ELECTRICAL EQUIPMENT & SUPPLY:**  
All equipment shall be capable of operating continuously under variations in the supply system of 45% in the voltage and 35% in the frequency. The system supply shall be set out in the detailed installation specification.  
The complete electrical installation shall satisfy the local supply Authority and shall further comply with the Code of Practice for the Wiring of Premises as issued by the South African Bureau of Standards, the Local Supply Authority By-Laws and the requirements of the Mergewor and Occupation Safety Act, Act 6 of 1983. The latter shall take precedence in the case of conflicting requirements.  
Conduits shall comply with SABS 1085-Part 1.  
All conduits shall be heavy gauge, screened, welded seamless, or solid drawn, unless otherwise specified in the detailed installation specification. No conduit with less than 20mm external diameter shall be used.  
All junction boxes used in conjunction with steel conduit shall be of heavy steel or cast iron construction, in SABS 1085-Part 1, boxes for external use or in damp situations shall either be provided with gaskets or with machined faces and weathertight covers. The use of inspection elbows, seal boxes and boxes will not be permitted except where shown on the drawings. All fittings used with galvanneal conduit shall be galvanneal. All screws shall be cadmium plated. All surface conduits shall be supported by cast distance saddles. Conduits shall be supported on both vertical and horizontal runs at 1 500 mm centres.

**ELECTRIC MOTORS:**  
All electric motors shall be constructed in accordance with the following requirements where applicable.  
SABS 048 Part 1: 1975 Three Phase Induction Motors  
SABS 1185-1978 Single Phase Induction Motors  
BS 4999 Index 1977 Specification for General Requirements for Rotating Electrical Machines  
Motors shall be minimum Class H insulation.

**CLIENT:**

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2 ASBUILT ES 32/03/07  
1 PJS 09/08/08  
BY DATE

**GROUP**  
A Subsidiary of SENTRAK HOLDINGS

PROVIDED BY  
MEDICAL: M+Z DATE: 03/08/07  
ELECTRICAL: M+Z DATE: 03/08/07  
PROJECT LEADER: M+Z DATE: 03/08/07  
CONSULTANT: AC DATE: 03/08/07

PROJECT DESCRIPTION  
AS BUILT NEW ADDITIONS  
TO THE TERMINAL BUILDINGS  
GEORGE AIRPORT - PHASE 3

SERVICE  
SMOKE VENTILATION  
INSTALLATION

DESIGN PJS	DATE	DRAWN PJS	DATE: 03/08/06
PROJ NO 564	DRAWING NO 564/SMOKE/02	Revision 2	
SCALE:			AS SHOWN