

FOR

TENDER

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TCE-1167-M-TD-AC-004

 \Box

M5

SERVICE SHAFT ROOM 2 1 2.8m²

STORE ROOM 2.05 104.4m²

#

6540			4165			*																		230 / 1 / 50	230 / 1 / 50	(V / Ph / Hz)	POWER RE			230 / 1 / 50
Z																					l			0.085	0.085	ABSORBED (kW)	REQUIREMENTS			0.085
	CLIENT LOGO			8	⊳	REV No							LINE TYPE	C/W	SWW	TRF	NTS	MOS	WL	TG	EAD/G	DG	ABBREVIATIONS:	ŝ	°	*	Ø	(a)	LEGEND:	TOM
\geq	LOGO			11.02.2022	22.11.2021	DATE:							E LEGEND:	COMPLETE WITH	WIRE MESH SCREEN	TRANSFOR	NOT TO SCALE	MEASURE ON SITE	WEATHER LOUVRE	TRANSFER GRILLE	EXTRACT A	DOOR GRILLE	ATIONS:	WALL MOU	WALL MOU	DOOR TO B	230V / 1PH	400V / 3PH WITHIN ON		AKE GOOD AF
	E ON ORIGINAL DRAWING 100 m			ISSUED FOR TENDER	ISSUED FOR CLIENT'S APPROVAL	DESCRIPTION:	TENDER	ELECTRICAL CABLE	FLEXIBLE DUCT	CENTRE LINE	REFRIGERATION PIPE	CONDENSATE DRAIN PIPE		WITH	SCREEN	TRANSFORMATION OF DUCT	ALE	ON SITE	LOUVRE	GRILLE	EXTRACT AIR DIFFUSER OR GRILLE	TE		WALL MOUNTED ON/OFF SWITCH AT 1350 AFFL CONDUIT AND 4x4 BOX IN WALL) - BY ELECTRIC	WALL MOUNTED THERMOSTAT AT 1350 AFFL. (AND 4x4 BOX IN WALL) - BY ELECTRICIAN AND	DOOR TO BE UNDERCUT BY 25mm MINIMUM - B	230V / 1PH / 50HZ POWER SUPPLY TERMINATIN WITHIN ONE METER OF EQUIPMENT - BY ELECT	400V / 3PH / 50HZ POWER SUPPLY TERMINATIN WITHIN ONE METER OF EQUIPMENT - BY ELECT		TO MAKE GOOD AFTER DUCTS ARE INSTALLED).

SECOND FLOOR INTERNAL TERMINAL UNIT SCHEDULE	RNAL TERMINA	AL UNIT SCHE	DULE			
	COOLING	HEATING	AIR QTY.	MASS	POWER RE	POWER REQUIREMENTS
DESCRIPTION	(kW)	(kW)	(I/s Each)	(kg)	(V / Ph / Hz)	FLA (Amps)
4 WAY BLOW CASSETTE UNIT	2.20	2.50	125.00	12.60	230 / 1 / 50	0.200
4 WAY BLOW CASSETTE UNIT	2.80	3.20	133.30	13.70	230 / 1 / 50	0.200
4 WAY BLOW CASSETTE UNIT	3.60	4.00	145.00	13.70	230 / 1 / 50	0.200
4 WAY BLOW CASSETTE UNIT	4.50	5.00	183.30	15.00	230 / 1 / 50	0.200
4 WAY BLOW CASSETTE UNIT	5.60	6.30	187.00	15.00	230 / 1 / 50	0.200
4 WAY BLOW CASSETTE UNIT	7.10	8.00	383.30	27.00	230 / 1 / 50	0.200
CEILING CONCEALED DUCTED UNIT	22.40	25.20	1000.00	87.00	380/3/50	5.200
CEILING CONCEALED DUCTED UNIT	28.10	31.50	1200.00	87.00	380 / 3 / 50	5.200
, DAIKIN, MITSUBISHI OR EQUAL AND APPROVED						
SECOND FLOOR FRESH AIR SUPPLY FAN SCHEDULE	SH AIR SUPPL	Y FAN SCHEI	DULE			
DESCRIPTION	AIR QTY. (I/s	PRESSURE	FAN SPEED	Ë	POWER REQUIREMENTS	UIREMENTS
	each)	(Pa)	(RPM)		(V / Ph / Hz)	ABSORBED (kW)
*VKPF FD 500 x 300.4	525.00	135	932		230 / 1 / 50	0.085

DESCRIPTION

each) PRESSURE (Pa)

FAN SPEED (RPM)

151.00 171.00

SECOND FLOOR EXTRACT AIR FAN SCHEDUL

612.00

110

800

REF.

No.

CONJUNCTION WITH THE SAME.

ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE WITH

ABS-1238-1979 LOW VELOCITY DUCT STANDARDS.

ALL DUCT SIZES SHOWN ARE ACTUAL SHEETMETAL SIZES.

SUPPLY DUCTS TO BE EXTERNALLY INSULATED WITH 25mm FRK.

INSULATION - UNLESS OTHERWISE SPECIFIED.

ALL OTHER DUCTS TO BE UNINSULATED, UNLESS SPECIFIED.

ALL EXPOSED DUCTS TO BE PAINTED TO SPECIFICATION.

ALL EXPOSED DUCTS TO BE PAINTED TO SPECIFICATION.

ALL DUCTS WITH SEMI-PERIMETER OF 1150mm OR LESS TO BE "S & DRIVE"
JOINTS, AND DUCTS ABOVE TO BE MEZZ FLANGED.

ALL BENDS TO HAVE INTERNAL RADIUS OF 150mm AND SPLITTERS UNLESS OTHERWISE SPECIFIED.

ALL ROUND DUCT BENDS UP TO Ø500mm TO HAVE A RADIUS OF 200mm OVER Ø500mm TO HAVE A RADIUS OF 300mm.

DUCT SHOES TO BE 150mm LONG @ 45°.

1. SPIGOTS TO BE 100mm LONG , UNLESS OTHERWISE STATED. ALL WORK TO COMPLY TO LOCAL MUNICIPAL BY- LAWS.
HVAC SUB-CONTRACTOR IS RESPONSIBLE TO ENSURE ALL CO-ORDINATION
& CORRECT DIMENSIONING OF DRAWINGS IS DONE WITH ALL OTHER
RESPECTIVE CONTRACTORS PRIOR TO PROCUREMENT & INSTALLATION.
QUALITY MUST BE ADHERED TO ALL STANDARDS AS PER TENDER
SPECIFICATIONS AC BUILDERSWORK:

ALL OPENINGS TO BE 100mm BIGGER THAN DUCT SIZES SHOWN (BUILDE TO MAKE GOOD AFTER DUCTS ARE INSTALLED).

ALL OPENINGS TO BE 50mm BIGGER THAN GRILLE SIZES SHOWN WHICH INCLUDES A 25mm THK. TIMBER FRAME ALL AROUND OPENING - BY BUILDER.

SLEEVES IN WALLS, SLABS & BEAMS (SIZE SHOWN ON DRAWING) (BUILD TO MAKE GOOD AFTER DUCTS ARE INSTALLED). PROJECT DETAILS

UNIVERSITY OF SOUTH AFRICA
FLORIDA CAMPUS
TSWELOPELE BUILDING (BLOCK 'E')
HEATING, VENTILATION &
AIR CONDITIONING SECOND FLOOR HVAC LAYOUT RESPONSIBLE PROFESSIONAL
NAME SIGNATURE MECHANICAL TCE 1167 UNIT 6, GARDENS BUSINESS PARK ATELJEE STREET RANDPARK RIDGE, 2156 university of south africa www.thembake 011 475 4560 011 475 9140