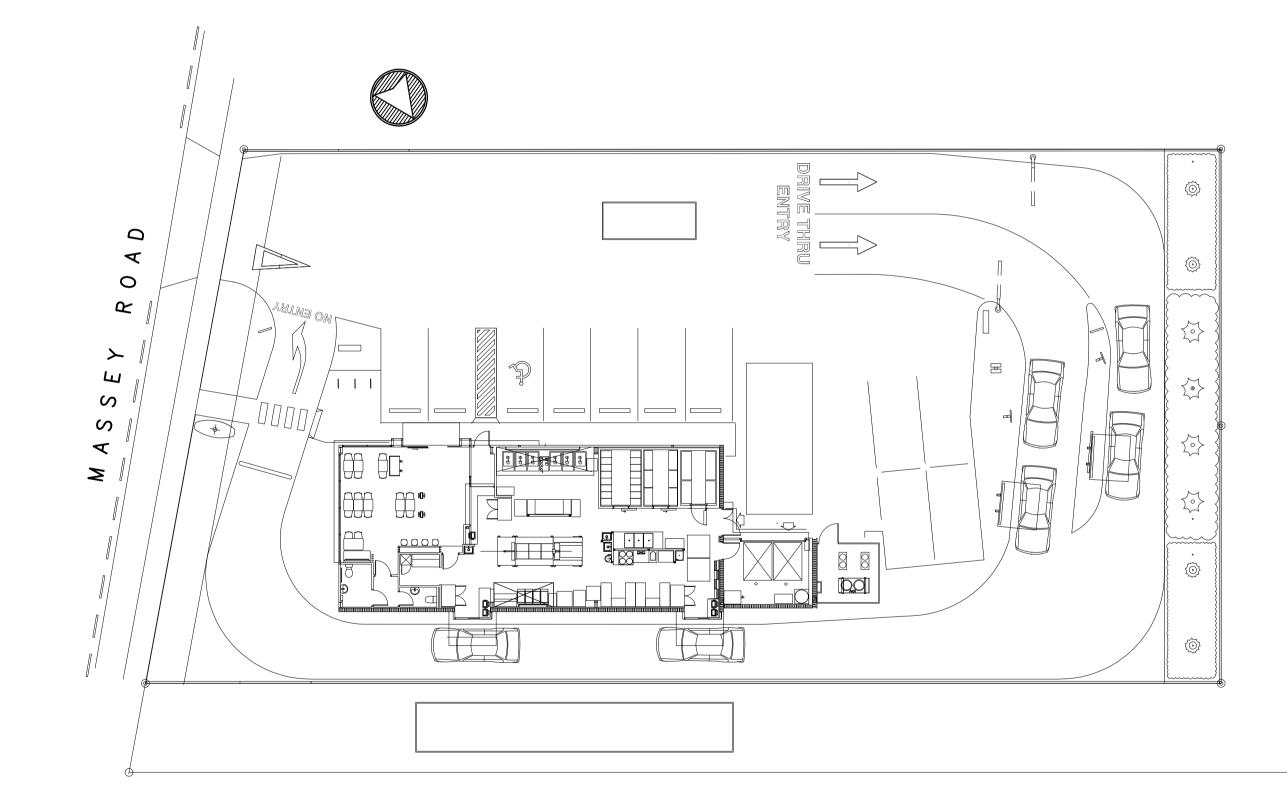
RESTAURANT BRANDS LTD KFC METRO INFILL STORE 389 MASSEY RD, MANGERE EAST MECHANICAL SERVICES





PROJECT No. 3712M ISSUE - BUILDING CONSENT AND TENDER 09 NOV 2023



CONSULTING ENGINEERS AUCKLAND, NEW ZEALAND DRAWING No: 3712M00A

ALL MECHANICAL EQUIPMENT SELECTIONS, CONTROLLERS, AND OPERATION HAVE BEEN SELECTED FOR ENERGY EFFICIENCY IN ACCORDANCE WITH NZBC H1/VM1 ENERGY EFFICIENCY. AND MEPS STANDARDS REQUIREMENTS AND SHALL BE INSTALLED AND OPERATE IN ACCORDANCE WITH NZBC H1/VM1 ENERGY EFFICIENCY.

AIR CONDITIONING UNIT/AIR HANDLING UNIT SCHEDULE

REF.	MAKE	MODEL	LOCATION	DUTY/SIZE kWt/kWs		AIR FLOW L/s	OUTDOOR AIR L/s	SUMME EAT	R OAT	WINTE EAT	R OAT	WIRING V/Ph	Amps	COMMENTS
AC1	TEMPERZONE	ISD251LYX OSA251RLTFV	KITCHEN	23.3 / 19.5	25.0	1500	450	24.8/20.3	27/22	13/11	4/2	400/3	39/24/24	c/w EU4 WASHABLE FILTERS. INTERGRAL CONTROLLER
AC2	TEMPERZONE	ISD171LYX OSA1711RLTFH	RESTAURANT	14.8 / 11.8	14.9	700	250	24.8/20.3	27/22	13/11	4/2	230/1	15/11/11	c/w EU4 WASHABLE FILTERS. INTERGRAL CONTROLLER

CONTRACTOR TO CONFIRM WITH THE ELECTRICAL CONTRACTOR THE VENTILATION AND AIR-CONDITIONING EQUIPMENT WIRING DETAILS, NUMBER OF PHASES AND TERMINATION LOCATIONS ETC. AIR-CONDITIONING UNIT DRAINS TO TERMINATE AT TUNDISHES PROVIDED BY THE DRAINAGE CONTRACTOR. CO-ORDINATE FINAL LOCATIONS. MINIMUM FALL 1:200 MINIMUM DIA 25 mm PROVIDE INTEGRAL CONDENSATE PUMPS SHOULD GRAVITY DRAINS ARE UNABLE TO BE ACCOMMODATED.

FAN SCHEDULE

REF.	MAKE	MODEL	DUTY/SIZE	LOCATION/SERVICE	WEIGHT(Kg)	MOTOR POWER	ELECTRICAL SUPPLY	COMMENTS
SF1	FANTECH	AP0564LP12/32	2800 L/s AT 220 Pa	CEILING SPACE	51.1	1.65 kW	415V 3PH 50Hz	
EF1	FANTECH	CDEC63V	2060 L/s AT 300 Pa	ROOF/MAIN HOOD	46	2.8 kW	415V 3PH 50Hz	
EF2	FANTECH	HUD506	900 L/s AT 200 Pa	ROOF/CHIP HOOD	51	0.55 kW	415V 3PH 50Hz	
EF3	FANTECH	CE284D	200 L/s AT 120 Pa	ROOF/UTILITY RM	8.7	0.10 kW	240V 1PH 50Hz	
TEF1	FANTECH	MV304E	100 L/s AT 100 Pa	ROOF/AMENITIES	6.5	0.12 kW	240V 1PH 50Hz	

2 DUCT REFERENCE No.

DUCT CONSTRUCTION

ALL FANS TO BE PROVIDED WITH SPEED CONTROLLERS FOR COMMISSIONING PURPOSES, UNLESS OTHERWISE SPECIFIED. ALL FANS TO BE INSTALLED WITH FLEXIBLE CONNECTIONS, ANTI-VIBRATION MOUNTS, SEISMIC RESTRAINTS, ETC.

DIFFUSER AND GRILLE SCHEDULE

REF.	MAKE	TYPE	MODEL	SIZE (mm)	COMMENTS
S1	HOLYOAKE	DOUBLE DEFLECTION	DDL-32/OBD	600 x 300	SET BLADES FOR 45 DEG DEFLECTION
S2	HOLYOAKE	4 WAY BLOW	CMP-41	300 x 300	c/w 600x600 LAY IN PLAQUE
S3	HOLYOAKE	3 WAY BLOW	CMP-34	450 x 450	
S4	HOLYOAKE	4 WAY BLOW	CMP-41	450 x 450	
S5	HOLYOAKE	2 WAY BLOW	CMP-21	300 x 300	OPPOSITE
S6	HOLYOAKE	2 WAY BLOW	CMP-51	300 x 300	CORNER
S7	HOLYOAKE	PERF PLATE	RLP-OBD	600 x 600	REMOVABLE CORE
E1	HOLYOAKE	EGG CRATE	EC-125-RC	200 x 200	
E2	HOLYOAKE	EGG CRATE	EC-125	350 x 300	
E3	HOLYOAKE	EGG CRATE	EC-125	300 x 300	
R1	HOLYOAKE	EGG CRATE	RLHL-FR	600 x 600	c/w EU4 MEDIA. PROVIDE SPARE SET OF FILTERS

DOUBLE DEFLECTION	DDL-32/OBD	600 x 300	SET BLADES FOR 45 DEG DEFLECTION	1	PLAIN GALVANISED
4 WAY BLOW	CMP-41	300 x 300	c/w 600x600 LAY IN PLAQUE	2 3	GALV MS & 25mm INTERNAL INSULATION GALV MS & 50mm INTERNAL INSULATION TO NZBC H1/VM3
3 WAY BLOW	CMP-34	450 x 450		4	GALV MS & 25mm EXTERNAL INSULATION & VAPOUR BARRIER
4 WAY BLOW	CMP-41	450 x 450		5 6	GALV MS & 50mm EXTERNAL INSULATION & VAPOUR BARRIER PVC or SIMILAR
2 WAY BLOW	CMP-21	300 x 300	OPPOSITE	7	GALV MS WITH INTERNAL LINING —
2 WAY BLOW	CMP-51	300 x 300	CORNER	8	MIN 10 mm THERMOBREAK SELF ADHESIVE INSULATION ALUMINIUM
PERF PLATE	RLP-OBD	600 x 600	REMOVABLE CORE	9	1.2 mm GALV MS WITH MIN 20 mm EXTERNAL PROTECTION -
				10	FIREPRO B400 SPIRALITE FIRE PROOFING FLEXIBLE SEE SPEC.
EGG CRATE	EC-125-RC	200 x 200		11	FLEXIBLE PLAIN SEE SPEC.
EGG CRATE	EC-125	350 x 300			
EGG CRATE	EC-125	300 x 300			
EGG CRATE	RLHL-FR	600 x 600	c/w EU4 MEDIA. PROVIDE SPARE SET OF FILTERS		
		1			

ALL GRILLES AND DIFFUSERS SHALL BE FITTED WITH SIDE ENTRY BOOTS. SUPPLY DIFFUSERS SHALL BE

PROVIDED WITH ACOUSTIC LINED BOXES. ALL GRILLES AND DIFFUSER BOXES TO BE PAINTED BLACK WHERE NOT COVERED BY BLACK LININGS. GRILLES FITTED INTO CEILING TILES SHALL HAVE THE BOOTS SEPARATELY SUPPORTED FROM THE ROOF.

NO DIRECT FIXINGS TO THE FLANGE OF PURLINS. CONFIRM GRILLE AND DIFFUSER COLOURS WITH THE ARCHITECT.

LOUVRES

REF.	MAKE	TYPE	MODEL	SIZE (mm)	COMMENTS
L1	HOLYOAKE	DRAINABLE	OHL-F-D	1800 x 1000	c/w VERMIN NESH

EII TEDC

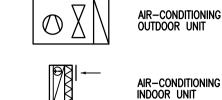
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REF.	MAKE	TYPE	MODEL	SIZE (mm)	No. & DETAILS	COMMENTS
F1	FILTERS DIRECT	V-PLEAT	VPL 24x20x2	592 x 490	6 OFF IN 2 HIGH, SIDE WITHDRAWAL FRAME. EU4 MEDIA, WASHABLE.	c/w 6 SPARE PANELS.
F2	TEMPERZONE	EU4 MEDIA			SUPPLIED BY AIR-CONDITIONING UNIT SUPPLIER	WASHABLE
F3	HOLYOAKE	EU4 MEDIA		600 x 600	SUPPLIED BY GRILLE MANUFACTURER	c/w 4 SPARE PANELS.
F4	HOODMASTER	SLAT		VARIOUS	SUPPLIED BY HOOD MANUFACTURER	c/w SIDE DAMPER FOR BALANCING
F5	TEMPERZONE	EU4 MEDIA			SUPPLIED BY AIR-CONDITIONING UNIT SUPPLIER	WASHABLE

EXHAUST HOODS

REF.	MAKE	TYPE	SERVING	SIZE (mm)	EXHAUS L/s	T AIR Pa	SUPPLY L/s	AIR Pa	WEIGHT kg	COMMENTS
H1	HOODMASTER	CANOPY	PRESSURE FRYER	5150 x 1500 x 500	2055	130	1000	65	315	SLAT TYPE GREASE FITTERS + SLIDE DAMPERS ON EXHAUST
H2	HOODMASTER	CANOPY	DEEP FAT FRYER CHIP SCUTTLE	3150 x 1300 x 500	900	130	765	65	175	SLAT TYPE GREASE FITTERS + SLIDE DAMPERS ON EXHAUST

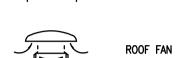
HOODS SHOWN AND DETAILED. PROVIDED BY MANUFACTURER FOR INSTALLATION BY THE MECHANICAL CONTRACTOR.

LEGEND











REFRIGERATION PIPEWORK

ANTI VACUUM VALVE NORMALLY OPENED ISOLATING VALVE CHECK VALVE / NON RETURN VALVE REGULATING VALVE STRAINER / FILTER 丒 MIXING VALVE 3 WAY CONTROL VALVE 2 WAY CONTROL VALVE AUTO GAS CHANGE OVER VALVE

CONDENSATE PIPEWORK



WATER PUMP UNION CONNECTOR

SAFETY VALVE

CHANGE IN PIPE SIZE HEATING LOW TEMPERATURE FLOW HEATING LOW TEMPERATURE RETURN

COLD WATER

AIRFLOW RATE

AIR FLOW L/s

AIR FLOW + PATTERN

DOWN TO LOWER LEVEL FA, TA FROM ABOVE / TO ABOVE FB, TB FROM BELOW / TO BELOW

PLAIN DUCTING

____ ____ EXTERNAL INSULATION DUCTING ____

DUCTING TO ABOVE

SPLITTER DAMPER

/\/ OBD/BD OPPOSED BLADE DAMPER

FIRE DAMPER WITH FRANGIBLE JOINTS C/W ACCESS PANEL AND TEST LEVER

THERMOSTAT/CONTROLLER

CO₂ SENSOR

GRILLE DIFFUSER

SECTION LABEL

DISTRIBUTION BOARD/MSCP

RETURN/EXHAUST GRILLE REFERENCE

© COPYRIGHT:

DIMENSIONS:

WITHNZBC G4/AS1.

PROVIDE PS3.

AS NECESSARY.

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ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB BEFORE COMMENCEMENT OF WORK. FIGURED DIMENSIONS

TAKE PRIORITY OVER SCALED. UNLESS STATED

OTHERWISE ALL WHOLE NUMBER FIGURED DIMENSIONS

ARE IN MILLIMETRES AND DECIMAL NUMBERS IN METRES.

MECHANICAL VENTILATION DESIGNED TO COMPLY

OUTDOOR AIR REQUIREMENT EXHAUST HOOD FANS

EXCEED ANY OUTDOOR RATES. HOOD EXHAUST 3050

AMENITIES EXHAUST VENTILATION TO NZBC G4/AS1

MECHANICAL VENTILATION SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 1668.1 AND SHALL

GENERALLY SHUT DOWN UNDER FIRE ALARM MODE. CO-ORDINATE WITH FIRE ALARM CONTRACTOR FOR

LOCATION OF VOLTAGE FREE CONTACTS. ALLOW TO

KITCHEN EXHAUST DUCTING TO BE INSTALLED TO

AS/NZS 1668.1 c/w CLEAN OUTS, ACCESS PANELS

CO-ORDINATE ANY BUILDERS WORKS REQUIRED FOR

TEST AND PROVE INTERFACE. CONTRACTOR TO

INSTALLATION OF FANS, DUCTING, ETC.. ROOF UNDER FLASHINGS BY BUILDER,

ALL ACOUSTIC INTERNALLY INSULATED DUCTING

2.7.1 AND 2.8.2. LINING TO NZBC H1/VM3.

EXTERNAL DUCTING SIZES MAY BE LARGER.

MAXIMUM FLEXIBLE DUCT LENGTH 3m.

NOMINATED AIR STREAM SIZES.

ALL DUCT SIZES SHOWN ON DRAWING ARE THE

O. DUCTWORK SHEET METAL TO SMACNA GAUGES TO BE

1. ALL DUCT WORK EXTERIOR TO THE BUILDING SHALL

BE WEATHERPROOFED AND ALL JOINTS SEALED.

2. RUN CONDENSATE DRAINS TO NEAREST GUTTER OR DRAIN TUNDISH. MINIMUM 25mm AT FALL OF 1:100.

13. ALL WIRING TO BE BY ELECTRICAL FOR MECHANICAL

4. MECHANICAL CONTRACTOR TO LIAISE WITH ELECTRICAL

CONTRACTOR AND TO CONFIRM ALL MECHANICAL

SUB-CONTRACTOR EXCEPT WHERE SPECIFIED.

5. REFER TO THE ELECTRICAL SERVICES CONTROL DRAWINGS FOR MECHANICAL / ELECTRICAL

INTERFACE AND ELECTRICAL CONTROLS DETAILS

ARCHITECT AND ELECTRICAL SUB-CONTRACTOR.

6. CO-ORDINATE FIELD CONTROL DEVICE LOCATION WITH

. PROVIDE DETAILS OF ALL SEISMIC RESTRAINTS TO

REVIEW BY ARCHITECT, SERVICES AND STRUCTURAL

METAL SHEATHED FOR UV AND VERMIN PROTECTION

NZS 4219:2009 ON WORKSHOP DRAWINGS FOR

18. ALL EXTERIOR PIPEWORK INSULATION SHALL BE

PLANT ITEMS, PHASES AND LOADS.

CONSULTANTS AND BUILDER.

APPROPRIATE FOR ITS SIZE, AIRFLOW VELOCITY AND

SHALL BE PROVIDED WITH SHEET METAL NOSING PIECES OVER ALL CUT EDGES IF INSULATION.

INTERNAL DUCTING LININGS, INSULATION ETC. SHALL COMPLY WITH AS4254:2002 PARTICULARLY CLAUSES

OVERFLASHINGS BY THIS CONTRACTOR.

TABLE B SANITARY COMPARTMENT. MAXIMUM OF 10 L/s/m² OR

25 L/s PER SANITARY APPLIANCE.

SUPPLY DIFFUSER

SPIGOT CONNECTION WITH BALANCING DAMPER

DOOR UNDERCUT-20mm BY BUILDER-CONTRACTOR TO CO-ORDINATE. DOOR GRILLE

INTERNAL INSULATION DUCTING

FLEXIBLE DUCTING

DUCTING TO BELOW

SD VANED BEND IN DUCT

MOTORISED BALANCING DAMPER

DIFFERENTIAL PRESSURE SENSOR/SWITCH

HUMIDITY SENSOR

CO SENSOR

ELECTRICAL HEATER

FOUND ON DRAWING XXX

> A | BUILDING CONSENT + TENDER | WR | 09.11.23 SUE REVISION BY CHK DATE MORTLOCK McELROY, LTD Architects

RESTAURANT BRANDS LTD KFC METRO INFILL STORE 389 MASSEY RD, MANGERE EAST

LEGEND AND SCHEDULES

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