

230/415 VOLT 3 PHASE 4 WIRE ELECTRICAL SERVICE				
ITEM	CONN. LOAD (VA)	DEMAND F.	DEMAND LOAD (WATTS)	TOTAL (AMPS)
LIGHTING	1000	125%	1250	
WATER HEATERS	2000	100%	2000	
EQUIPMENT	15000	65%	9750	
HVAC LOADS	-	100%	-	
SUB-TOTAL	18000		13000	
LARGEST MOTOR	0	125%	0	
TOTAL @ 230V/415 V	18000		13000	57

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PANEL SCHEDULE & SERVICE CALCULATION

ELECTRICAL PANEL -MAIN																	
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	PHASE A	PHASE A	PHASE A	BKR TRIP	WIRE SIZE	TYPE	CKT #	LOAD SERVED		
Oven	1		20	#12	340			1500			20	#12		2	Dough Mixer 30L		
	3		20	#12		340			275		20	#12		4	Under Counter Fridge - 282L		
	5		20	#12			340			250	20	#12		6	Sandwich Display Fridge -160L		
Under Counter Fridge - 420L	7		20	#12	230			240			20	#12		8	Meat Slicer		
Salad Bar Fridge	9		20	#12		530			4600		25	#12		10	2 Group Coffee Machine		
Under Counter Dishwasher	11		20	#12			3900			730	20	#12		12	Soft Drink Fridge -110L		
Hot Water Tank - 100L	13		20	#12	2000			450			20	#12		14	Storage Fridge - 1200L		
Electric Hand Dryer	15		20	#12		1000			50		15	#12		16	32 inch Digital POS		
Lighting Load	17		20	#14			1000			-	-	-		18	SPARE		
TOTAL VA PHASE A					2570			2190						4760			
TOTAL VA PHASE B						1870			4925					6795			
TOTAL VA PHASE C							4240			980				5220			
TOTAL VOLT-AMPS															16775		
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE)									230	AMPS		73					
DIVIDE TOTAL VOLT-AMPS BY THREE PHASE VOLTAGE DIVIDER									1.734	AMPS		42					
TOTAL CONNECTED LOAD (AMPS) @ 125%									53								
MAIN TYPE AND AMPERE RATING									60-80 AMP MCCB								
PANEL FEEDER SIZE - SEE RISER DIAGRAM																	

EQUIPMENT SCHEDULE										
Item #	Room	Name	Finish	Dimensions (mm)	Power Req (W)	Power (V)	Quantity	Supplier	Product Code	Notes
1	Bar	Dough Mixer 30L	Premium Stainless Steel	W770xD550xH850	1500W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	SH30	Professional Spiral Dough Mixer 30 Litres Fixed Head Fixed Bowl 2 Speeds
2	Bar	Under Counter Fridge - 282L	Stainless Steel	W1360xD700xH860	275W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	THP2100TN	Commercial Refrigerated Counter 2 doors Depth
3	Bar	Sandwich Display Fridge -160L White		W880xD568xH686	250W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	CW160	Display Merchandiser Fridge 160 litres 2 shelves White
4	Bar	Meat Slicer	Aluminium	W420xD265xH390	240W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	BF220ROUGE	Commercial Meat slicer 8"/220mm Aluminium Coated Red
5	Bar	2 Group Coffee Machine	Stainless Steel	W710xD590xH533	4600W	220V/ 3 PHASE	1	La Marzocco	N/A	The Linea PB, 2 Group
6	Bar	Till	Black	N/A	N/A	N/A	1	Toast	N/A	Toast Flex, Didigital Screen POS, IP54
7	Bar	Low Level Counter	Marble/Oak	N/A	N/A	N/A	1	TBC	N/A	800mm max height for accessibility
8	Bar	Oven	Stainless Steel	W850xD842xH754	10250W	N/A	1	Rational Online UK	~6-1/1	Icombi Pro 6-1/1 with Steam extraction hood
9	Bar	Under Counter Fridge - 420L	Stainless Steel	W1795xD700xH950	230W	230V/ 1 PHASE	2	Adexa Catering Equipment Direct	2DRG32V	Commercial Refrigerated Counter 2 doors 2 drawers Depth 420L
10	Bar	Salad Bar Fridge	White	W1840xD688xH1410	530W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	CW571WHITE	Display Merchandiser Fridge 810 litres White
11	Bar	Soft Drink Fridge -110L	Black	W685xD620xH1450	730W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	VC14F102I	Multi Deck Refrigerator 110 litres with Night Curtain Black
12	Store	Under Counter Dishwasher	Stainless Steel	W565xD610xH825	3900W	230V/ 1 PHASE	1	Adexa Catering Equipment Direct	ADX50B	Commercial Dishwasher Premium 500mm basket 20 baskets/hour Break tank Drain Pump Detergent dosing pump, 62 dB(A)
13	Bar	Sink	Stainless Steel	W1000xD600xH900	N/A	N/A	1	Adexa Catering Equipment Direct	VS106LBS	Commercial Sink Stainless steel 1 bowl Left Bottom shelf Splashback, Adjustable feet
14	Store	Storage Fridge - 1200L	Stainless Steel	W1340xD845xH2000	450W	230V/ 1 PHASE	2	Adexa Catering Equipment Direct	R1200S	1200lt Commercial Refrigerator Stainless steel Upright cabinet Twin door GN2/1 Fan assisted cooling
15	Store	Storage Shelves	Powder Coated Steel	W1220xD610xH1980	N/A	N/A	1	Adexa Catering Equipment Direct	TY6101220	Industrial Shelving Unit Heavy duty 4 shelves 400 kg/shelf Powder coated steel
16	Store	Hot Water Tank - 100L	White	W440xD440xH990	2000W	220V	1	Amazon UK	B07PMDXYP5	Tesy Bi-light Electric Un-Vented Vertical Hot Water Cylinder - To be mounted high in line wih MEP services above - G3 registered installer required for installation
17	Store	Lockers	Grey	W900xD400xH1830	N/A	N/A	1	Adexa Catering Equipment Direct	SART238	Commercial Grey 6 Door Locker with 1 Shelf
18	Store	Sink	Stainless Steel	W1400xD600xH900	N/A	N/A	1	Adexa Catering Equipment Direct	DBS14060LEFT	Commercial Double Sink Stainless steel, 2 bowl left, 100mm Splashback, Adjustable Feet
19	Toilet	Electric Hand Dryer	Sprayed Nickel	W234xD100xH394	1000W	240V	1	Dyson UK	307170-01	Dyson Airblade V hand dryer, Hygienic performance with HEPA filter
20	Seating	Self Service Till/Kiosk	Black	N/A	N/A	N/A	1	Toast	N/A	Restaurant Self-Ordering Kiosks
21	Store	Handwash Sink	Stainless Steel	W400xD400xH240	N/A	N/A	1	Adexa Catering Equipment Direct	THHWR44	Commercial Hand wash sink Stainless steel Knee control, 79 dB(A)
22	Bar	32 inch Digital POS	Charcoal Black	W727.3xD28.5xH421.9	50W	100-240V	3	Samsung	LH32QMCEBGCXUE	Samung 32" Smart Signage QM32C. Array of 3 units mounter in portait orientation.Uses100x100mm Vesamount.



ENGINEER'S TEAM

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OWNER:

THE MEAL BOX CAFE

UNIT 5, 120 FENCHURCH, STREET,
LONDON, EC3M 5BA

SEAL:

Release for construction

ELECTRICAL LOAD
SCHEDULE PLAN

Drawn by: Engr. Al Amin

Checked:

Date: FEB, 06.

E. 3

Scale: 1:100

