

LUMINAIRE SCHEDULE										
TYPE	FIXTURE CATEGORY	LAMPS	MOUNTING	VOLTAGE	WATT	MANUFACTURER	PART NUMBER	LIGHT COLOR TEMPERATURE (K)	REMARKS	QUANTITY
1	LINEAR LED	LED	CEILING – SURFACE	120	46	DAY BRITE	DWAE51LH840-4-UNV	4000	C/W WITH WET LOCATION INSTALLATION ACCESSORIES	8
2	OUTDOOR WALL SCNCE	LED	WALL – SURFACE	120	37	KEENE	LP32-T	4000	CONFIRM COLOR PRIOR TO ORDER	4

EQUIPMENT & MOTORS SCHEDULE								
TYPE	ITEM LOCATION	DESCRIPTION	VOLTAGE	W/AMP	MANUFACTURER	PART NUMBER	REMARKS	QUANTITY
EF-1	WALL	EXHAUST FAN (PROVISION)	120	200	REFER TO MECHANICAL DRAWINGS	REFER TO MECHANICAL DRAWINGS	-	1

1 E04 EQUIPMENT SCHEDULES

PANEL: (P-C)		VOLTAGE: 120/208V			PHASE: 3		
LOCATION: SHED		BUS: 100 A - MAIN LUG			WIRE: 4		
		FED FROM CDP					
DESCRIPTION	LOAD/WATTS			BKR SIZE	CIRCUIT	BKR SIZE	DESCRIPTION
	A	B	C				
GAS DETECTION SYSTEM	100			15	1	2	15
DISCONNECT - EXHAUST FAN - (EF-1)-EST		200		15	3	4	20
SPACE					5	6	20
RECEPT-AIR COMPRESSOR	1200			20	7	8	20
RECEPT-ELECTRICAL PANEL		400		20	9	10	15
RECEPT-GENERAL USE-2			400	20	11	12	
RECEPT-BLOCK HEATER-1	1000			20	13	14	2P
RECEPT-BLOCK HEATER-2		1000		20	15	16	15
RECEPT-BLOCK HEATER-3			1000	20	17	18	15
SPACE					19	20	15
SPACE					21	22	
SPACE					23	24	
SPACE					25	26	
SPACE					27	28	
SPACE					29	30	
SPACE					31	32	
SPACE					33	34	
SPACE					35	36	
SPACE					37	38	
SPACE					39	40	
SPACE					41	42	
LIGHTING		0.52 KW		HEATING		0.00 KW	
MOTOR		1.40 KW		MISC.		6.40 KW	
TOTAL 8.3 KW							

2 E04 PANEL SCHEDULE

MANITOBA ENERGY CODE FOR BUILDINGS (MECB) ELECTRICAL COMPLIANCE MATRIX					
#	CLAUSE	ITEM	NOTES	VERDICT	UNITS
1	4.2.1.	INTERIOR LIGHTING POWER			
2	4.2.1.1.	EXIT SIGNS	PER SIGN	-	W
3	4.2.1.2.	FLUORESCENT LAMP BALLASTS		NO FLUORESCENT FIXTURES SPECIFIED	
4	4.2.1.3.	LIMITS TO INSTALLED INTERIOR LIGHTING POWER		WITHIN LIMIT	
5	4.2.1.5.	CALCULATION OF INTERIOR LIGHTING POWER ALLOWANCE USING THE BUILDING AREA METHOD		WAREHOUSE	
6	ALLOWED LIGHTING DENSITY	TABLE 4.2.1.5.- WAREHOUSE		7.1	W/SQ M
7	BUILDING AREA			82	SQ M
8	BUILDING SERVICE AREA			0	SQ M
9	ALLOWED LIGHTING DENSITY IN BUILDING			582	W
10	ACTUAL LIGHTING DENSITY			368	W
11	4.2.2.	LIGHTING CONTROLS IN ENCLOSED SPACES		PROVIDED	
12	4.2.2.	INTERIOR LIGHTING CONTROLS		PROVIDED	
13	4.2.3.	EXTERIOR LIGHTING POWER			
14	LIGHTING ZONE CLASSIFICATION	TABLE 4.2.3.1.A		2	
15	BASIC LIGHTING ALLOWANCE	ALLOWED PER TABLE 4.2.3.1.B.		600	W
16		USED		148	W
17	SPECIFIC BUILDING EXTERIOR APPLICATIONS	ALLOWED PER TABLE 4.2.3.1.C.			W/M
18		LENGTH OF FAÇADE			M
19		ALLOWED LIGHTING			W
20		USED			W
21		ALLOWED PER TABLE 4.2.3.1.C. - MAIN ENTRY			W
22		USED			W
23	4.2.4.	EXTERIOR LIGHTING CONTROLS	PHOTOCELL & TIME-LOCK PROVIDED		
24	7.2.1.	ELECTRICAL DISTRIBUTION SYSTEM			
25	7.2.1.1.	(1) MONITORING		SERVICE IS LESS THAN 250KVA	
26	7.2.1.1.	(2) MONITORING		N/A	
27	7.2.2.	VOLTAGE DROP		PER WEB TABLES	
28	7.2.3.	TRANSFORMERS		NO TRANSFORMERS SPECIFIED	
29	7.2.4.	ELECTRICAL MOTORS			
30	7.2.4.1.	EFFICIENCY		NOTE INCLUDED IN EQUIPMENT SCHEDULES TO MEET CODE REQUIREMENTS	

3 E04 MECB COMPLIANCE MATRIX

COMMERCIAL BUILDING/UNIT DEMAND CALCULATION		120/208V-3PH	
UNIT TYPE: STORAGE SHED	TYPICAL FOR: 1 UNITS		
SIZE: 82 m <sup>2</sup>			
1- BASIC COMMERCIAL LOAD	5 W/m <sup>2</sup>	410 W	
2- HEATING, VENTILATION & A/C		500 W	
3- ELECTRIC HEAT		0 W	
4- OWNER/ADDITIONAL EQUIPMENT		4542 W	
5- PARKING RECEPTACLES		3000 W	
6- EXTERIOR LIGHTING		148 W	
7- TOTAL LOAD/UNIT:		8600 W	
8- MINIMUM SIZE OF SERVICE/UNIT:		8600 W/ 120 V/ 3 PH= 24 AMPS	

4 E04 DEMAND CALCULATIONS



**IBASA** Electrical Engineering Enterprises Design & Consulting  
490 Paul Blvd. Winnipeg, MB R2N 4C8  
T. 204-515-1158  
info@ibasa.ca www.ibasa.ca