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Block 120 Units 13 to 18

SITE NAME:	BARL	ASSINA																	Aug-22			v	VINTER	R NATURAL AII	R CHANGE RATE 0.31		ΔT °F. 72	CSA-F2	280-12
BUILDER:		NPARK I	HOMES	;				TYPE:	CHER	RY 3E				GFA:	2140			LO#	98651			SU	JMMER	R NATURAL AI	R CHANGE RATE 0.08	5 HEAT GAIN	ΙΔΤ°F. 9	SB-12 PACKAG	GE A1
ROOM USE			1	MBR			ENS						BED-2			BED-3			FLEX			BATH						1	
EXP. WALL	.	- 1	i	37			8						10		1	30			13			10	l			1			
CLG. HT.	.	- 1	i	9			9						9			9			9			9					1	1	
1	FACTO	ors	í																								1		
	1	GAIN	í	333			72						90		1	270			117			90					1		
GLAZING			i	LOSS	GAIN		LOSS	GAIN					LOSS	GAIN		LOSS	GAIN		LOSS	GAIN		LOSS G	AIN					1	
NORTH	20.3	15.0	0	0	0	0	0	0	į			0	0	0	0	0	0	0	0	0	0	0	0						
EAST	20.3		0	0	0	0	0	0	l			27	547	1095	24	487	973	ō	0	0	0	0	ō						
SOUTH	20.3		0	0	0	0	0	0				0	0	0	0	0	0	18	365	430	7		167					1	
WEST	20.3		18	365	730	16	324	649	l			0	0		0	0	0	0	0	0	0	0	0					1	
SKYLT.	35.5	99.8	"	000	0	0	0	045				0	0	0	0	0	0	0	0	0	0	0	0					1	
DOORS			0	0	0	0	0	0				0	0	ا	0	0	0	0	0	0	0	0	0						
		2.4		-	-		238	-				-		- 1		-	-	1 -	-	-	-		- 1					1	
NET EXPOSED WALL	4.3	0.5	315	1339	170	56		30				63	268	34	246	1046	133	99	421	53	83	353	45						
NET EXPOSED BSMT WALL ABOVE GR	1	0.4	0	U	0	0	0	0			- 1	0	0	0	0	0	0	0	0	0	0	0	0					i	
EXPOSED CLG		0.5	348	425	183	136	166	72				206	252	109	160	196	84	252	308	133	80	98	42						
NO ATTIC EXPOSED CLG	1	1.1	0	0	0	0	0	0			- 1	0	0	0	13	34	15	0	0	0	0	0	0				1	1	
EXPOSED FLOOR	2.4	0.3	0	0	0	0	0	0			1	206	500	64	32	78	10	0	0	0	0	0	0						
BASEMENT/CRAWL HEAT LOSS	1		ı	0			0						0			0			0			0	1					1	
SLAB ON GRADE HEAT LOSS	1	1	ı	0			0						0			0		1	0			0	1				1	1	
SUBTOTAL HT LOSS	1	1	í	2130			729						1568			1840			1094			593	1					1	
SUB TOTAL HT GAIN			i		1083			751						1301			1215			616			254				1		
LEVEL FACTOR / MULTIPLIER	1	ļ	0.20	0.30		0.20	0.30					0.20	0.30		0.20	0.30		0.20	0.30		0.20	0.30	1				1		
AIR CHANGE HEAT LOSS	1	ļ	í	639			219				1		471			552			328			178					1	1	
AIR CHANGE HEAT GAIN		ļ	i .		59			41						71			67			34		-	14			-		1	
DUCT LOSS			1	0			0				- 1		204			239			0			0							
DUCT GAIN		1	i .	•	0		•	0						239		200	230		•	0		·	0						
HEAT GAIN PEOPLE		1	2		480	0		0				4		240	1		240	0		0	0		0						
HEAT GAIN APPLIANCES/LIGHTS	240	- 1	, -		780	٠		0			1			780	'		780	ľ		780	U		١						
TOTAL HT LOSS BTU/H		- 1	ı	2769	700		948	U	1				2242	780		2631	760		1422	700		771	ľ۱						
TOTAL HT GAIN x 1.3 BTU/H		1	ı	2/03	3124		340	1029						3421		2031	3291		1422	1859									
TOTAL HT GAIN X 1.3 BTO/H	<u> </u>				3124			1029	L					3421			3291	L		1859			349		L		1		
ROOM USE	T				-					K/L/D						LAUN			PWD			FOY		MUD			T	BAS	
EXP. WALL			ı							61						0			8			48	j	11					
CLG. HT.	i		i							10									10			10	- 1	10				125 9	
1 1	FACTO	ODe I	i .							10	1					3			10			10	1	10				, ,	
GRS.WALL AREA			ı							610				1		0			80			480	i	440					
1 1	LUSS	GAIN	ı						1							•			•••			00		110			1	750	
GLAZING	1								1	LOSS	GAIN			1		LOSS	GAIN					LOSS (3AIN I	LOSS G	AIN			LOSS	GAIN
NORTH			1						1		- 1								LOSS				1					1	
EAST	l .	15.0	ļ						0	0	0		•		0	0	0	0	0	0	0	0	0		0			0 0	0
i i	20.3	40.5							0	0	0				0	0	0	0 0	0	0	11	223	1	0 0	0			0 0	
SOUTH	20.3 20.3	40.5 23.9							0 50	0 0 1014	0 1195		•		0 0 0	0 0 0		0 0 7	0 0 142	0			0	0 0	-			0 0	0
SOUTH WEST	20.3 20.3 20.3	40.5							0	0	0				0 0 0 0	0	0	-	0	0	11	223	0 446	0 0	0			0 0 8 162	0 0
SOUTH	20.3 20.3	40.5 23.9							0 50	0 0 1014	0 1195		-		0 0 0 0	0 0 0	0	7	0 0 142	0 0 167	11 0	223 0	0 446	0 0 0 0 0 0	0 0			0 0 8 162	0 0 191
SOUTH WEST	20.3 20.3 20.3	40.5 23.9 40.5							0 50 48	0 0 1014 973	0 1195 1946		•		0	0 0 0	0 0 0	7 0	0 0 142 0	0 0 167 0	11 0 0	223 0 0	0 446 0 0	0 0 0 0 0 0 0 0 0	0 0 0			0 0 8 162 4 81	0 0 191 162
SOUTH WEST SKYLT.	20.3 20.3 20.3 35.5	40.5 23.9 40.5 99.8							0 50 48 0	0 0 1014 973 0	0 1195 1946 0		•		0 0	0 0 0 0	0 0 0	7 0 0	0 0 142 0	0 0 167 0	11 0 0 0	223 0 0 0 0 267	0 446 0 0	0 0 0 0 0 0 0 0 0 0 0 20 382	0 0 0 0 0			0 0 8 162 4 81 0 0	0 0 191 162 0
SOUTH WEST SKYLT. DOORS	20.3 20.3 20.3 35.5 19.1	40.5 23.9 40.5 99.8 2.4							0 50 48 0	0 0 1014 973 0 191	0 1195 1946 0 24				0 0	0 0 0 0 0	0 0 0 0	7 0 0	0 0 142 0 0	0 0 167 0 0	11 0 0 0 0	223 0 0 0 0 267	0 446 0 0 0 34	0 0 0 0 0 0 0 0 0 0 20 382 90 383	0 0 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0	0 0 191 162 0 49
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.3 20.3 20.3 35.5 19.1 4.3	40.5 23.9 40.5 99.8 2.4 0.5							0 50 48 0 10 502	0 0 1014 973 0 191 2134	0 1195 1946 0 24 271				0 0 0 0	0 0 0 0 0	0 0 0 0 0	7 0 0 0 73	0 0 142 0 0 0 310	0 0 167 0 0 0 39	11 0 0 0 14 455	223 0 0 0 0 267 1934	0 446 0 0 0 34 246	0 0 0 0 0 0 0 0 0 20 382 90 383 0 0	0 0 0 0 0 49			0 0 8 162 4 81 0 0 20 382 0 0	0 0 191 162 0 49
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502	0 0 1014 973 0 191 2134	0 1195 1946 0 24 271				0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	7 0 0 0 73	0 0 142 0 0 0 310 0	0 0 167 0 0 0 39	11 0 0 0 14 455 0	223 0 0 0 267 1934 0	0 446 0 0 0 34 246 0	0 0 0 0 0 0 0 0 20 382 90 383 0 0 0 0	0 0 0 0 0 49 49			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0	0 0 191 162 0 49 0 163
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0	0 0 1014 973 0 191 2134 0	0 1195 1946 0 24 271 0				0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	7 0 0 0 73 0	0 0 142 0 0 0 310	0 0 167 0 0 0 39 0	11 0 0 0 14 455	223 0 0 0 267 1934 0 0	0 446 0 0 0 34 246	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 49 49			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0	0 1195 1946 0 24 271 0				0 0 0 0 0 0 48	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 25	7 0 0 0 73 0 0	0 0 142 0 0 0 310 0	0 0 167 0 0 0 39 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0	0 446 0 0 0 34 246 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0	0 0 191 162 0 49 0 163
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0	0 1195 1946 0 24 271 0				0 0 0 0 0 0 48	0 0 0 0 0 0 0 0 0 59 0	0 0 0 0 0 0 0 0 25	7 0 0 0 73 0 0	0 0 142 0 0 0 310 0	0 0 167 0 0 0 39 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0	0 446 0 0 0 34 246 0 0	0 0 0 0 0 0 0 0 20 382 90 383 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0	0 1195 1946 0 24 271 0				0 0 0 0 0 0 48	0 0 0 0 0 0 0 0 59 0	0 0 0 0 0 0 0 0 25	7 0 0 0 73 0 0	0 0 142 0 0 0 310 0 0 0	0 0 167 0 0 0 39 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0	0 446 0 0 0 34 246 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BASHT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0	0 1195 1946 0 24 271 0 0				0 0 0 0 0 0 48	0 0 0 0 0 0 0 0 0 59 0	0 0 0 0 0 0 0 25 0	7 0 0 0 73 0 0	0 0 142 0 0 0 310 0	0 0 167 0 0 0 39 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0	0 446 0 0 0 34 246 0 0	0 0 0 0 0 0 0 0 20 382 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 0	0 1195 1946 0 24 271 0				0 0 0 0 0 0 48 0	0 0 0 0 0 0 0 0 0 59 0 0	0 0 0 0 0 0 0 0 25	7 0 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 0	0 0 167 0 0 0 39 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0	0 446 0 0 0 34 246 0 0 0	0 0 0 0 0 0 0 0 20 382 90 383 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BAMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED FLOOR EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0				0 0 0 0 0 0 48	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0	7 0 0 0 73 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425	0 446 0 0 0 34 246 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 0	0 1195 1946 0 24 271 0 0 0				0 0 0 0 0 0 48 0	0 0 0 0 0 0 0 0 0 59 0 0	0 0 0 0 0 0 0 25 0	7 0 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 0	0 0 167 0 0 0 39 0 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0	0 446 0 0 0 34 246 0 0 0	0 0 0 0 0 0 0 0 20 382 90 383 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BASH WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0				0 0 0 0 0 0 48 0	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0	7 0 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425	0 446 0 0 0 34 246 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820	0 0 191 162 0 49 0 163 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMIT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0 0				0 0 0 0 0 0 48 0	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0	7 0 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425	0 446 0 0 0 34 246 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820	0 0 191 162 0 49 0 163 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BAMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED FLOOR EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0 0				0 0 0 0 0 0 48 0	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0	7 0 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425 0.45	0 446 0 0 0 34 246 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820	0 0 191 162 0 49 0 163 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0 0 3436				0 0 0 0 0 0 48 0	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0 0	7 0 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0 0	11 0 0 0 14 455 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425 0.45	0 446 0 0 0 34 246 0 0 0 0 726	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820	0 0 191 162 0 49 0 163 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMIT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN APPLIANCES/LIGHTS	20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0 0 0 3436				0 0 0 0 0 0 48 0 0	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0 0	7 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0 0 0	11 0 0 0 14 455 0 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425 0.45	0 446 0 0 0 34 246 0 0 0 0 726	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820 0.50 1.03 6014	0 0 191 162 0 49 0 163 0 0
SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5							0 50 48 0 10 502 0 0 0	0 0 1014 973 0 191 2134 0 0 0 0 0 0 4312	0 1195 1946 0 24 271 0 0 0 3436				0 0 0 0 0 0 48 0 0	0 0 0 0 0 0 0 0 59 0 0 0 0 59	0 0 0 0 0 0 0 25 0 0	7 0 0 73 0 0 0	0 0 142 0 0 0 310 0 0 0 0 0 452	0 0 167 0 0 0 39 0 0 0 0	11 0 0 0 14 455 0 0 0	223 0 0 0 267 1934 0 0 0 0 0 2425 0.45	0 446 0 0 0 34 246 0 0 0 0 726	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 49 49 0 0 0 0			0 0 8 162 4 81 0 0 20 382 0 0 375 1286 0 0 0 0 0 0 3909 5820 0.50 1.03 6014	0 0 191 162 0 49 0 163 0 0 0

TOTAL HEAT GAIN BTU/H:

23207

TONS: 1.93

LOSS DUE TO VENTILATION LOAD BTU/H: 1243

STRUCTURAL HEAT LOSS: 34255

TOTAL COMBINED HEAT LOSS BTU/H: 35498

Mehad Oxombe.



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Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

SIT B	E NAME: BUILDER:	BARLAS GREEN	SSINA PARK HO	OMES				TYPE:	CHERRY	′ 3E			DATE:	Aug-22			GFA:	2140	LO#	98651				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	34,255	,	TOTAL F	DLING CFM HEAT GAIN RATE CFM	23,049		6	furı a/c coil available	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35						1	GMEC960 FAN		GOODMA 40	λN		AFUE = (BTU/H) = (BTU/H) =	40,000	
RUN COUNT	4th	3rd	2nd	1st	Bas												ME	EDLOW			DESI	GN CFM =	890	
S/A R/A	0	0	10	7	3				ssure s/a	0.18			pressure					MEDIUM	695			CFM @ .	6 " E.S.P.	-
All S/A diffusers 4"x10" unl									ress. loss ssure s/a	0.02 0.16			ess. Loss essure r/a	0.02 0.15			MEDIO	M HIGH HIGH	890	т	EMDEDAT	URE RISE	40	°F
All S/A runs 5"Ø unless no	ted other									0.10		juotou pre	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.10				111011	030		LIMI LIVAT	OIL KIGE	40	- r
RUN#		2		4	5	6	7	8	9	10			13	14	15	16	17	18	19	20	21	22	23	
ROOM NAME RM LOSS MBH.	MBR 1.38	ENS 0.95		BED-2 1.12	BED-3 1.32	FLEX 1.42	BATH 0.77	BED-2 1.12	BED-3 1.32	MBR 1.38			K/L/D 1.57	K/L/D 1.57	K/L/D 1.57	K/L/D	LAUN 0.08	PWD	FOY	MUD	BAS	BAS	BAS	
CFM PER RUN HEAT	36	25		29	34	37	20	29	34	36			41	41	41	1.57 41	2	0.66 17	3.52 92	1.11 29	3.94 102	3.94 102	3.94 102	
RM GAIN MBH.	1.56	1.03		1.71	1.65	1.86	0.35	1.71	1.65	1.56			1.43	1.43	1.43	1.43	1.05	0.28	1.00	0.13	0.60	0.60	0.60	
CFM PER RUN COOLING		40		66	64	72	13	66	64	60			55	55	55	55	41	11	38	5	23	23	23	1
ADJUSTED PRESSURE		0.17		0.17	0.17	0.17	0.17	0.17	0.17	0.17			0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.16	0.16	0.16	1
ACTUAL DUCT LGH. EQUIVALENT LENGTH	48 170	38 160		58 140	60 170	48 170	40 120	59 150	62 180	46 150			23 140	16 110	35	26	35	35	49	39	30	11	40	1
TOTAL EFFECTIVE LENGTH	218	198		198	230	218	160	209	242	196			163	126	110 145	110 136	150 185	90 125	130 179	140 179	110 140	100 111	140 180	
ADJUSTED PRESSURE		0.09		0.09	0.07	0.08	0.11	0.08	0.07	0.09			0.11	0.14	0.12	0.13	0.09	0.14	0.09	0.1	0.12	0.15	0.09	
ROUND DUCT SIZE	5	4		6	6	6	4	6	6	5			5	5	5	5	4	4	6	4	6	6	6	
HEATING VELOCITY (ft/min)	264	287		148	173	189	229	148	173	264			301	301	301	301	23	195	469	333	520	520	520	
COOLING VELOCITY (ft/min) OUTLET GRILL SIZE	441 3X10	459 3X10		337 4X10	326 4X10	367 4X10	149 3X10	337 4X10	326 4X10	441 3X10			404 3X10	404 3X10	404	404	470	126	194	57	117	117	117	
TRUNK	A	В		D	C	4X10	D	D -	47.10 C	В			D D	B	3X10 A	3X10 A	3X10 A	3X10 D	4X10 C	3X10 D	4X10 A	4X10 B	4X10 C	
RUN #																								
RM LOSS MBH.																								
CFM PER RUN HEAT																								
RM GAIN MBH.																								
CFM PER RUN COOLING ADJUSTED PRESSURE																								
ACTUAL DUCT LGH.																								
EQUIVALENT LENGTH																								
TOTAL EFFECTIVE LENGTH																								
ADJUSTED PRESSURE																								
ROUND DUCT SIZE HEATING VELOCITY (ft/min)																								
COOLING VELOCITY (ft/min)																								
OUTLET GRILL SIZE																								
TRUNK																								
SUPPLY AIR TRUNK SIZE																	RETURN A	ID TOURIS	Olze					
	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	RETURNA	TRUNK	STATIC	ROUND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			(ft/min)
TRUNK A	222	80.0	8	8	X	8	500		TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.05	0	0	х	8	0
TRUNK B		0.08 0.07	10.2 8.8	12 10	X	8 8	639		TRUNK H	0	0.00	0	0	X	8	0	TRUNK P	0	0.05	0	0	х	8	0
TRUNK D		0.07	10.9	14	X X	8	472 597		TRUNK I TRUNK J	0	0.00 0.00	0	0	X X	8 8	0	TRUNK Q TRUNK R	0	0.05 0.05	0	0	X	8	0
TRUNK E	0	0.00	0	0	x	8	0		TRUNK K	ő	0.00	Ö	Ö	×	8	Ö	TRUNK S	0	0.05	0	0	X X	8 8	0
TRUNK F	0	0.00	0	0	Х	8	0		TRUNK L	0	0.00	0	0	X	8	0	TRUNK T	ō	0.05	ŏ	ŏ	x	8	ŏ
																	TRUNK U TRUNK V	0	0.05	0	0	х	8	0
RETURN AIR #	1	2	3	4	5											BR	TRUNK W	0	0.05 0.05	0	0	X	8 8	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		TRUNK X	890	0.05	15.1	26	X	8	616
AIR VOLUME PLENUM PRESSURE	115 0.15	115 0.15	85 0.15	95 0.15	360	0	0	0	0	0	0	0	0	0	0	120	TRUNK Y	770	0.05	14.3	24	х	8	578
ACTUAL DUCT LGH.	0.15 82	0.15 75	0.15 66	0.15 70	0.15 41	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15 1	0.15	TRUNK Z	180	0.05	8.3	8	X	8	405
EQUIVALENT LENGTH	225	235	195	150	185	Ó	Ó	Ó	Ó	0	Ö	0	0	0	0	14 135	DROP	890	0.05	15.1	24	X	10	534
TOTAL EFFECTIVE LH	307	310	261	220	226	1	1	1	1	1	1	1	1	1	1	149								
ADJUSTED PRESSURE	0.05	0.05	0.06	0.07	0.07	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.10								
ROUND DUCT SIZE INLET GRILL SIZE	7 8	7 8	6 8	6 8	9.9 8	0	0	0	0 0	0	0	0	0	0	0	6								
INCLI GRILL SIZE	X	X	X	X	8 X	X	X	0 X	X	0 X	0 X	0 X	0 X	0 X	0 X	8 X								
INLET GRILL SIZE	14	14	14	14	30	Ô	ô	ô	0	ô	Ô	ô	ô	Ô	ô	14								



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TYPE: SITE NAME: CHERRY 3E BARLASSINA LO# 98651

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

PRINCIPAL EXHAUST HEAT LOSS CALCULATION	COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5.
Required Supplemental Capacity 95.4 cfm	a)		Total Ventilation Capacity159 cfm
Content Cont	b) Positive venting induced draft (except fireplaces)		Less Principal Ventil. Capacity63.6 cfm
PRINCIPAL EXHAUST FAN CAPACITY Model	c) Natural draft, B-vent or induced draft gas fireplace		Required Supplemental Capacity 95.4 cfm
Model: VANEE V150H Location BSMT	d) Solid Fuel (including fireplaces)		
Modest	e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CAPACITY
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.4.17 1 Reduces	5,		Model: VANEE V150H Location: BSMT
CHAIL Space Heat	HEATING SYSTEM		63.6 cfm
Gas CFM X 72 f X 1.08 X 0.25	Forced Air Non Forced Air		
SUPPLEMENTAL PANS			
Localion Mode cfm HVI Sones	Electric Space Heat		SUPPLEMENTAL FANS BY INSTALLING CONTRACTOR
			Location Model cfm HVI Sones
LALIN BY HATELLING CONTRACTION	HOUSE TYPE	9.32.1(2)	
II Type except with solid fuel (including fireplaces) III Any Type c) appliance IV Type , or II with electric space heat IV Type , or II with electric space heat IV Type , I or IV no forced air IV Type , I or IV no forced air IV Type , I or IV no forced air IV IV IV IV IV IV IV I	Type a) or b) appliance only, no solid fuel		
III			PWD BY INSTALLING CONTRACTOR 50 ✓ 3.5
III	II Type I except with solid fuel (including fireplaces)	·	HEAT RECOVERY VENTILATOR 9.32.3.11.
IV Type I, or II with electric space heat 75 % Sansible Efficiency HVI Approved	III Any Type c) appliance		Model: VANEE V150H
Other. Type I, II or IV no forced air	De Torre l'artification area best		150
1			70 Scholate Zimeleney
1			LOCATION OF INSTALLATION
1	SYSTEM DESIGN OPTIONS	O.N.H.W.P.	
2	4 Exhaust call/Farrand Air System		Lot: Concession
Address Roll # Building Permit #			Township Plan:
## Building Permit ## ## B			Address
Builder: GreenPark Homes Name: Name:	3 HRV Simplified/connected to forced air system		Roll # Building Permit #
Name: Address: City: Telephone #: Fax #:	4 HRV with Ducting/non forced air system		BUILDER: GREENPARK HOMES
Basement + Master Bedroom 2	Part 6 Design		Name:
Telephone #: Fax #:	TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:
Telephone #: Fax #:	Rasement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:
Kitchen & Bathrooms		•	
Name: Name		-	
Table 9.32.3.A. TOTAL 159.0 cfm Address:		-	
City: PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1) 1		-	
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1) 1 Bedroom 31.8 cfm 2 Bedroom 47.7 cfm I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code. Name: HVAC Designs Ltd. Signature: Multiple Code. Name: HVAC Designs Ltd. TOTAL 63.6 cfm Date: August-22	Table 9.32.3.A. 101AL 159.0	- Cim	
Telephone #: Fax #: Telephone #: Fax #:	DRINGIDAL VENTU ATION CARACITY REQUIRED	9 32 3 4 (1)	
DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code. Name: HVAC Designs Ltd. Signature: Multiple Office of the Company			
2 Bedroom 47.7 cfm I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code. 3 Bedroom 63.6 cfm Name: HVAC Designs Ltd. 4 Bedroom 79.5 cfm Signature: IMLILIA OF SIGNATURE . 5 Bedroom 95.4 cfm HRAI # 001820 TOTAL 63.6 cfm Date: August-22	1 Bedroom 31.8	cfm	DESIGNER CERTIFICATION
3 Bedroom 63.6 cfm Name: HVAC Designs Ltd. 4 Bedroom 79.5 cfm Signature: Miletal Office L 5 Bedroom 95.4 cfm HRAI # 001820 TOTAL 63.6 cfm Date: August-22	2 Bedroom 47.7	cfm	I hereby certify that this ventilation system has been designed
5 Bedroom 95.4 cfm HRAI # 001820 TOTAL 63.6 cfm Date: August-22	3 Bedroom 63.6	cfm	l 1
5 Bedroom 95.4 cfm HRAI # 001820 TOTAL 63.6 cfm Date: August-22	4 Bedroom 79.5	cfm	Signature: Milehad O'Knowle.
	5 Bedroom 95.4	cfm	
	TOTAL 63.6 cfm		

			CSA F2	80-12 Residential Hea	it Loss and Heat Gair	Calculations				
			Forn	nula Sheet (For Air Lea	akage / Ventiliation C	Calculation)				
LO#:	98651	Model: CHERRY 3E			r: GREENPARK HOMES	sarcara trotty			Date:	2022-08-30
		Volume Calculation	n				Air Change & De	lta T Data	·	
House Volume	El	T = 1	T	1			TURAL AIR CHAN		0.319	
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)	4		SUMMER NA	TURAL AIR CHAN	IGE RATE	0.085	
Bsmt First	981 981	9 10	8829	-						
Second	1159	9	9810 10431	-						
Third	0	9	0	1				emperature Diff		
Fourth	0	9	0	1	1	Winter DTDh	Tin °C	Tout °C	ΔT °C	ΔT °F
		Total:	29,070.0 ft ³	†	1	Summer DTDc	22	-18 29	40 5	72
		Total:	823.2 m ³	1		Dannier D1DC		1 23] 3]	9
	5.2.3	.1 Heat Loss due to A	ir Leakage			6.2.6 S	ensible Gain due	to Air Leakage		
		17								
	$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times L$	$DTD_{k} \times 1.2$		Н.	$IG_{salb} = LR_{airc} \times$	$V_b \times DTD$	v 1 2		
		5.0			. ''	Id _{salb} — Lh _{airc} X	$\overline{3.6}$ × $D1D_c$	X 1.2		
0.319	x <u>228.66</u>	x 40 °C	x <u>1.2</u>	= 3525 W	= 0.085	x 228.66	x 5 °C	x 1.2	= [119 W
				= 12028 Btu/h					= [405 Btu/h
	5.2.3.2 Hea	it Loss due to Mechar	ical Ventilation			6.2.7 Sen	sible heat Gain o	lue to Ventilatio	n	
·	***	D								
	$HL_{vairb} = I$	$PVC \times DTD_h \times 1$	$.08 \times (1 - E)$	•	HL_1	$_{vairb} = PVC \times DT$	$CD_h \times 1.08 \times$	(1 - E)		
64 CFM	x <u>72 °F</u>	x <u>1.08</u>	x <u>0.25</u>	= 1243 Btu/h	64 CFM	x 9°F	x 1.08	x 0.25	= [158 Btu/h
				,						
			5.2.3.3 Calcula	tion of Air Change Heat I	oss for Each Room (Floo	or Multiplier Section)				
						<u> </u>				
		HL_a	$t_{rr} = Level Factor$	$or \times HL_{airbv} \times \{(H$	$L_{agcr} + HL_{bgcr}) \div$	$(HL_{agclevel} + HL_{bg})$	gclevel)			
				HLairve Air Leakage +	Lavel Candustins II :			1		
		Level	Level Factor (LF)	Ventilation Heat Loss	Level Conductive Heat					
				(Btu/h)	Loss: (HL _{clevel})	HLairbv / H	Lievei)			
		1	0.5		5,820	1.033	3	1		
		2	0.3		7,954	0.454	Į .	1		
		3	0.2	12,028	8,011	0.300		1		
		4	0		0	0.000)	1	Michael O'Ro	urke
		5	0		0	0.000)	1	BCIN# 19669	
		*HLairbv = A	ir leakage heat loss +	ventilation heat loss				•		1 101
			•	entilation system HLairve	= 0				Makar	Oxombe.



375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	CHERRY 3E		BUILDER: GREENPARK HOMES	5
SFQT:	2140	LO# 98651	SITE: BARLASSINA	
DESIGN A	SSUMPTIONS			
HEATING		°F	COOLING	°F
	R DESIGN TEMP.	0	OUTDOOR DESIGN TEMP.	84
INDOOR I	DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	75
			WINDOW SHGC	0.50
BUILDING	DAIA		Control of the Contro	
ATTACHN	ΛENT:	ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:	EAST	ASSUMED (Y/N):	Υ
AIR CHAN	IGES PER HOUR:	3.57	ASSUMED (Y/N):	Υ
AIR TIGH	TNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Y
WIND EXI	POSURE:	SHELTERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):	29070.0	ASSUMED (Y/N):	Υ
INTERNA	L SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	4
INTERIOR	R LIGHTING LOAD (Btu/h	n/ft²): 1.75	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDA ⁻	TION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	62.0 ft	WIDTH: 20.0 ft	EXPOSED PERIMETER:	125.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Complianc	e Package
Component		A1
	Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value	60	59.22
Ceiling Without Attic Space Minimum RSI (R)-Value	31	27.65
Exposed Floor Minimum RSI (R)-Value	31	29.80
Walls Above Grade Minimum RSI (R)-Value	22	17.03
Basement Walls Minimum RSI (R)-Value	20 ci	21.12
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-Value	0.28	-
Skylights Maximum U-Value	0.49	-
Space Heating Equipment Minimum AFUE	96%	-
HRV/ERV Minimum Efficiency	75%	-
Domestic Hot Water Heater Minimum EF	0.8	

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

We	eather Stat	ion Description
Province:	Ontario	
Region:	Cambridg	e
	Site De	escription
Soil Conductivity:	Normal c	onductivity: dry sand, loam, clay
Water Table:	Normal (7	7-10 m, 23-33 ft)
	Foundatio	n Dimensions
Floor Length (m):	18.9	
Floor Width (m):	6.1	
Exposed Perimeter (m):	38.1	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	1.1	
Door Area (m²):	1.9	
	Radia	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desigr	n Months
Heating Month	1	
	Founda	tion Loads
Heating Load (Watts):		1145

TYPE: CHERRY 3E **LO#** 98651





HVAC Designs Ltd. 375 Finley Ave, Suite 202 Ajax ON, L1S 2E2 905-619-2300

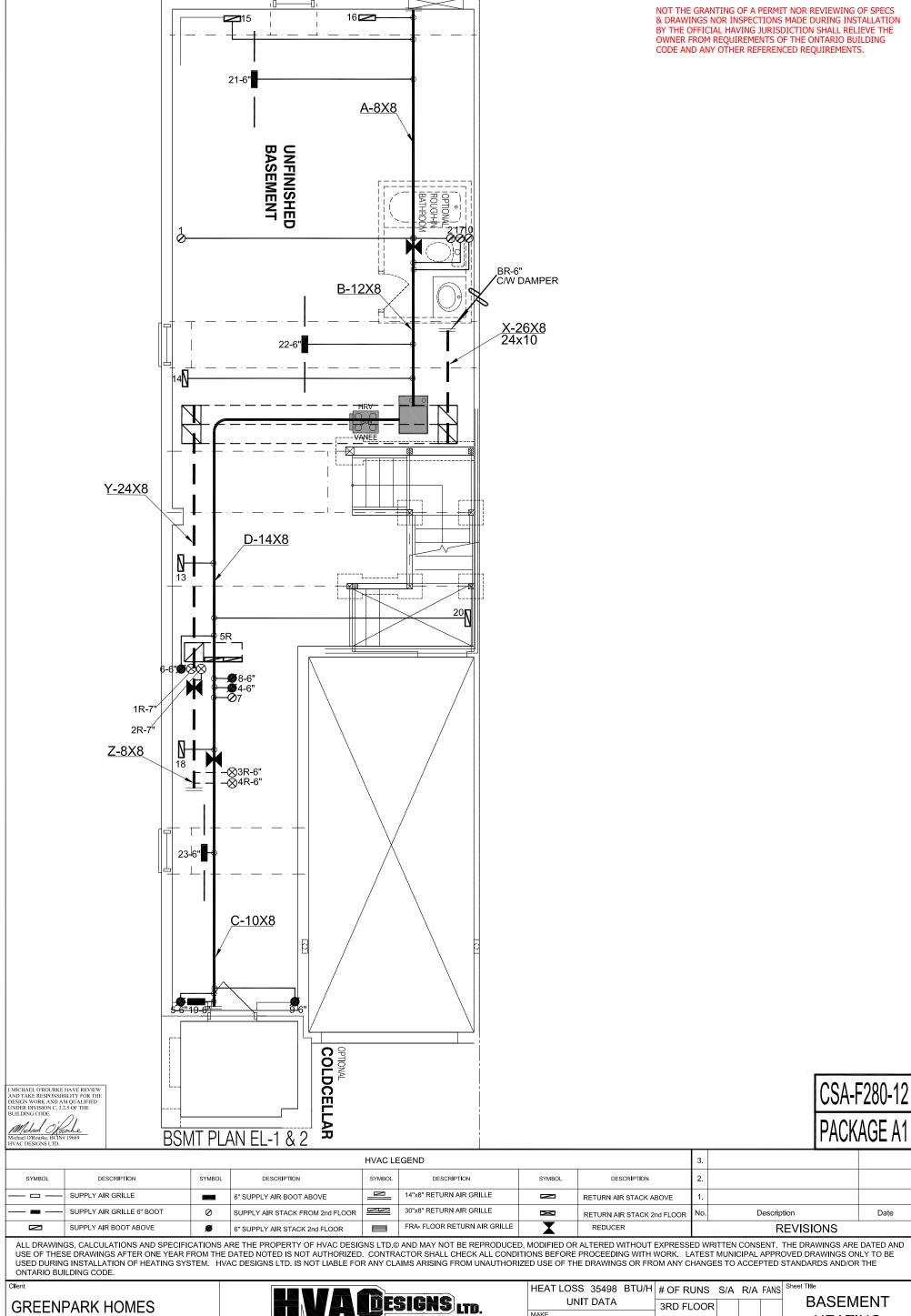
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stati	on Des	cripti	ion		
Province:	Ontar	io			
Region:	Camb	ridge			
Weather Station Location:	Open	flat te	rrain, g	rass	
Anemometer height (m):	10				
Local SI	nieldin	g			
Building Site:	Subur	ban, fo	orest		
Walls:	Heavy	/			
Flue:	Heavy	/			
Highest Ceiling Height (m):	6.71				
Building Co	nfigura	ation			
Type:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	823.2				
Air Leakage	/Ventil	atior)		
Air Tightness Type:	Prese	nt (196	51-) (3.	57 ACH	H)
Custom BDT Data:	ELA @	9 10 Pa	ì.		1097.3 cm²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		30.0			30.0
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infil	tration	Rate	:S		
Heating Air Leakage Rate (ACH/H)	:	O	.31	9	
Cooling Air Leakage Rate (ACH/H)		<u>C</u>	.08	5	

TYPE: CHERRY 3E **LO#** 98651





Project Name

BARLASSINA CAMBRIDGE, ONTARIO

Block 120 Units 13 to 18

2140 sqft **CHERRY 3E**

375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

Specializing in Residential Mechanical Design Services

Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed. FAN SPEED

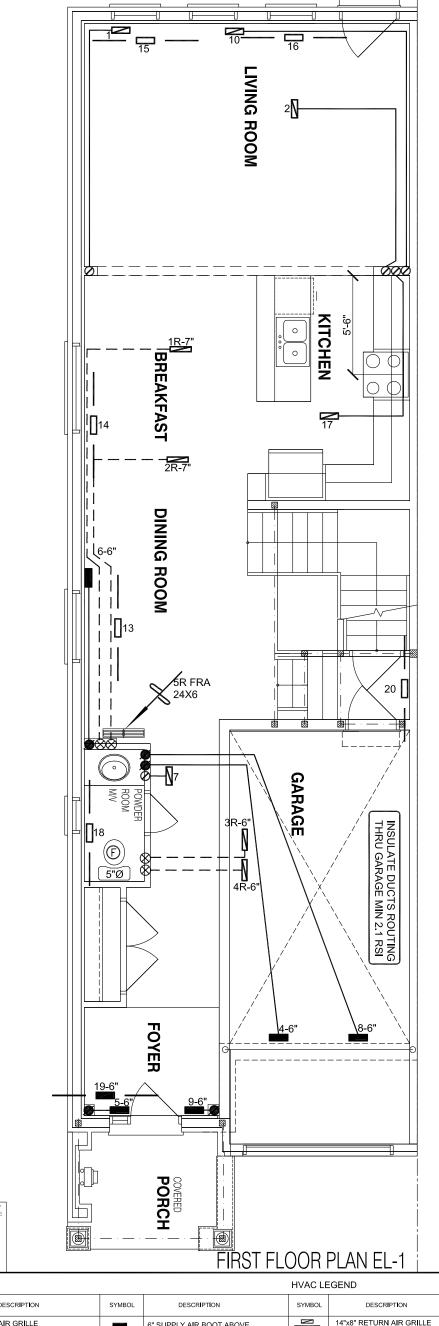
	HEAIL			# OF RUNS	S/A	R/A	FANS	Sile
		UN I T DATA	4	3RD FLOOR				
	MAKE	GOODMAN		2ND FLOOR	10	4	3	
	MODEL GM	IEC960402B	NA	1ST FLOOR	7	1	2	
	INPUT	40	MBTU/H	BASEMENT	3	1	0	Date
	OUTPUT		MBTU/H	ALL S/A DIFFU:	SERS	4 "x10)"	Scal
		38.4		UNLESS NOTE				
	COOLING	2.0	TONS	ON LAYOUT. A				
1		2.0		UNLESS NOTE	יוט טוי	1EKW	SE	l _

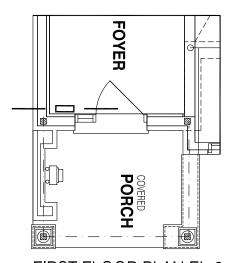
890

ON LAYOUT. UNDERCUT

DOORS 1" min. FOR R/A

۱S	Sheet	Title	
_		BA	SEMENT
			EATING
		L	.AYOUT
ŀ	Date	A	AUG/2022
	Scale	3	3/16" = 1'-0"
Ø		В	CIN# 19669
	LC)#	98651





FIRST FLOOR PLAN EL-2

CSA-F280-12 PACKAGE A1

			3.							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR	<u> </u>	30"x8" RETURN AIR GRILLE	\bowtie	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	Ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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Cllent

GREENPARK HOMES

Project Name

CHERRY 3E

BARLASSINA CAMBRIDGE, ONTARIO

Block 120 Units 13 to 18

2140 sqft



375 Finley Ave. Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca

Specializing in Residential Mechanical Design Services

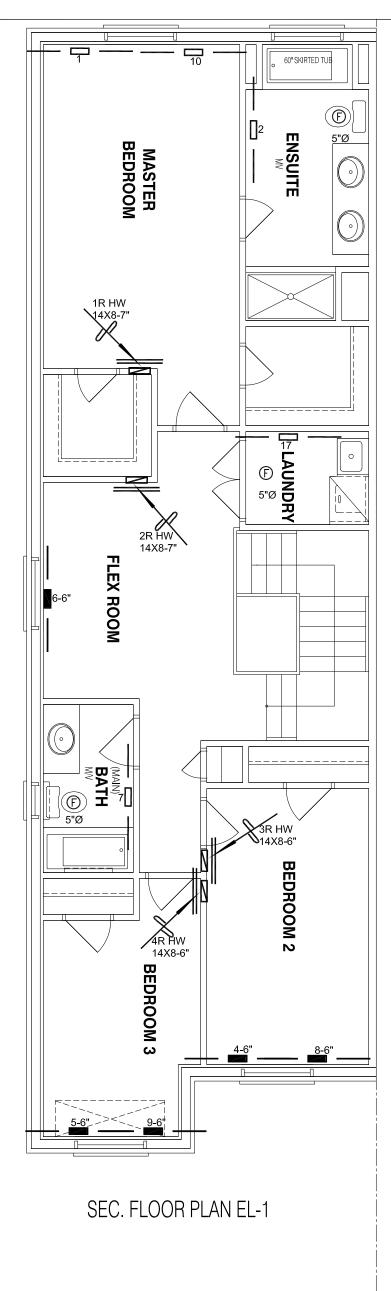
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

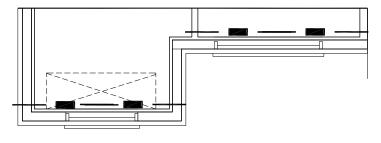
FIRST FLOOR HEATING LAYOUT

AUG/2022
Scale 3/16" = 1'-0"

BCIN# 19669

LO# 98651





SEC. FLOOR PLAN EL-2

CSA-F280-12 PACKAGE A1

	<u>'</u>		3.	•						
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	\bowtie	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE	Ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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CHERRY 3E 2140 sqft

HVA DESIGNS LTD.

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Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

Sheet Title

SECOND FLOOR HEATING LAYOUT

Date AUG/2022

Scale 3/16" = 1'-0"

BCIN# 19669

LO# 98651