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SMILLIUS - CHEMINE - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SITE NAME:	: BARLA	ASSINA					BIC	OCK I	21 Un	ils / il	12						DATE	Δ11α-2	,			MINIT	TO MATURAL AIR CHANGE THE	_				
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DOORS 19.1 2.4 0 0 0 0 0 0 8 153 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	20.3 20.3 20.3 20.3	15.0 40.5 23.9	0 30 15	37 10 370 LOSS 0 608 304	GAIN 0 1216 358	0 0 33	27 10 270 LOSS 0 0	GAIN 0 0 788	L 0 0 30	42 10 420 .OSS GA 0 (0 (608 7	0 0 17		3168	0 0 0	0 9 0 LOSS 0 0	GAIN 0 0	0 0 15	PWD 6 10 60 LOSS 0 0 304	GAIN 0 0 358	0 10	FOY 28 10 280 LOSS 0 0 203	GAIN 0 0 239		1			132 9 792 LOS 0 0 4 81	S GAIN 0 162
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SLAB ON GRADE HEAT LOSS 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BANT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1	0 30 15 0 0 0 325 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0	GAIN 0 1216 358 0 0 0 176 0	0 0 33 0 0 0 237 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0	GAIN 0 0 788 0 0 128 0	0 0 30 82 0 8 300 0	420 OSS GA 0 0 0 6008 7. 1662 33 0 0 1 153 1 275 16 0 0 0	0 0 17 1225 0 9 62 0		3168	0 0 0 42 0	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 51 0	GAIN 0 0 0 0 0 0 0 0 0 2 2 0	0 0 15 0 0 0 45 0	PWD 6 10 60 LOSS 0 0 304 0 0 0	GAIN 0 0 358 0 0 24 0	0 10 0 0 48 222 0	FOY 28 10 280 LOSS 0 0 203 0 0 917 944 0 0	GAIN 0 0 239 0 0 117 120 0		1			132 9 792 LOS 0 0 0 4 81 4 81 0 0 20 382 0 0 396 135	S GAIN 0 162 96 162 0 49 0
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SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER 0.30 0.39 0.30 0.30	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1	0 30 15 0 0 0 325 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0	GAIN 0 1216 358 0 0 0 176 0	0 0 33 0 0 0 237 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0	GAIN 0 0 788 0 0 128 0	0 0 30 82 0 8 300 0	420 OSS GA 0 0 0 6008 7. 1662 33 0 0 1 153 1 275 16 0 0 0	0 0 17 1225 0 9 62 0		3168	0 0 0 42 0	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 51 0	GAIN 0 0 0 0 0 0 0 0 0 2 2 0	0 0 15 0 0 0 45 0	PWD 6 10 60 LOSS 0 0 304 0 0 191 0 0 0	GAIN 0 0 358 0 0 24 0	0 10 0 0 48 222 0 0	FOY 28 10 280 LOSS 0 0 203 0 0 917 944 0 0 0 0	GAIN 0 0 239 0 0 117 120 0		1			132 9 792 LOSS 0 0 0 4 811 4 81 0 0 0 20 382 0 0 0 396 1355 0 0 0 0	S GAIN 0 162 96 162 0 49 0 0 3 173 0 0 0
SUB TOTAL HT GAIN 1750 916 4223 35 383 475 641	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0 0	GAIN 0 1216 358 0 0 0 176 0	0 0 33 0 0 0 237 0 0	27 10 270 LOSS 0 0 669 0 0 1008 0 0 0	GAIN 0 0 788 0 0 128 0	0 0 30 82 0 8 300 0	420 OSS GA 0 0 0 6008 7. 1662 33 0 0 1 153 1 275 16 0 0 0	0 0 17 1225 0 9 62 0		3168	0 0 0 42 0	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 0 102 0 0	GAIN 0 0 0 0 0 0 0 0 0 2 2 0	0 0 15 0 0 0 45 0	PWD 6 10 60 LOSS 0 0 304 0 0 191 0 0 0 0 0 0	GAIN 0 0 358 0 0 24 0	0 10 0 0 48 222 0 0	FOY 28 10 280 LOSS 0 0 203 0 0 917 944 0 0 0 0	GAIN 0 0 239 0 0 117 120 0		1			132 9 792 LOSS 0 0 0 4 811 4 81 0 0 0 20 382 0 0 0 396 1355 0 0 0 0	S GAIN 0 162 96 162 0 49 0 0 3 173 0 0 0
LEVEL FACTOR / MULTIPLIER	ROOM USE EXP. WALL CLG, HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 1382 0 0 0	GAIN 0 1216 358 0 0 0 176 0	0 0 33 0 0 0 237 0 0	27 10 270 LOSS 0 0 669 0 0 1008 0 0 0	GAIN 0 0 788 0 0 128 0	0 0 30 82 0 8 300 0 0	420 10 420 OSS GA 0 (6608 7' 1662 33 0 (6153 11 275 16 0 (600 0 0 0 0 0	0 0 17 1225 0 9 62 0		3168	0 0 0 42 0	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 2 2 0	0 0 15 0 0 0 45 0	PWD 6 10 COSS 0 0 304 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 358 0 0 24 0	0 10 0 0 48 222 0 0	FOY 28 10 280 LOSS 0 0 203 0 0 917 944 0 0 0 0 0 0 0	GAIN 0 0 239 0 0 117 120 0		1			132 9 792 LOS 0 0 0 4 81 4 81 0 0 0 20 382 0 0 0 396 1351 0 0 0 0 0 0	S GAIN 0 162 96 162 0 49 0 3 173 0 0
AIR CHANGE HEAT LOSS	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BSMT 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	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0	GAIN 0 1216 358 0 0 176 0 0	0 0 33 0 0 0 237 0 0	27 10 270 LOSS 0 0 669 0 0 1008 0 0 0	GAIN 0 0 788 0 0 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 82 0 8 300 0 0	42 10 420 OSS G/O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 117 1225 0 9 9 9 9 9 0 0		3168	0 0 0 42 0	LAUN 0 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 0	GAIN 0 0 0 0 0 0 0 0 0 0 22 0 0 13	0 0 15 0 0 0 45 0	PWD 6 10 COSS 0 0 304 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 3558 0 0 0 24 0 0 0 0	0 10 0 0 48 222 0 0	FOY 28 10 280 LOSS 0 0 203 0 0 917 944 0 0 0 0 0 0 0	GAIN 0 0 0 2399 0 0 1117 1220 0 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 0 0 0 20 382 0 0 0 396 1351 0 0 0 0 0 0	S GAIN 0 162 96 162 0 49 0 3 173 0
AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN DUCT GAIN DUCT GAIN DUCT GAIN HEAT GAIN PEOPLE 440 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT CAN SUB TOTAL HT CAN LEVEL FACTOR / MULTIPLIER	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0	GAIN 0 1216 358 0 0 176 0 0	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0	GAIN 0 0 788 0 0 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 82 0 8 300 0 0 0	42 10 420	0 0 117 1225 0 9 9 9 9 9 0 0		3168	0 0 0 42 0 42	LAUN 0 9 0 LOSS 0 0 0 0 0 0 102 0 0 153	GAIN 0 0 0 0 0 0 0 0 0 0 22 0 0 13	0 0 15 0 0 0 45 0 0	PWD 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 3558 0 0 0 24 0 0 0 0	0 10 0 48 222 0 0 0	FOY 28 10 280 LOSS 0 0 917 944 0 0 0 0 0 2063	GAIN 0 0 0 2399 0 0 1117 1220 0 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 0 0 0	S GAIN 0 162 96 162 0 49 0 3 173 0 0
DUCT LOSS DUCT GAIN DUCT GAIN O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 176 0 0	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0 0 0	GAIN 0 0 788 0 0 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 82 0 8 300 0 0 0	42 10 420 OSS GA 0 0 6608 7 6608 7 153 1 275 16 0 0 0 0 0 0 6699 42	0 0 117 1225 0 9 9 9 9 9 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 153 0 .27	GAIN 0 0 0 0 0 0 0 0 0 0 22 0 0 13	0 0 15 0 0 0 45 0 0	PWD 6 10 COSS 0 0 0 304 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 3558 0 0 0 24 0 0 0 0	0 10 0 48 222 0 0 0	FOY 28 10 280 LOSS 0 0 0 917 944 0 0 0 0 2063 0.39	GAIN 0 0 0 2399 0 0 1117 1220 0 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 4266 6256	S GAIN 0 162 96 162 0 49 0 3 173 0 0
DUCT GAIN 0 0 0 0 0 52 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 176 0 0 0	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0 0 0	GAIN 0 0 788 0 0 128 0 0 0	0 0 30 82 0 8 300 0 0 0	42 10 420 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 117 125 0 9 52 0 0 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 153 0 .27	GAIN 0 0 0 0 0 0 0 0 0 0 22 0 0 13	0 0 15 0 0 0 45 0 0	PWD 6 10 COSS 0 0 0 304 0 0 0 0 0 0 495 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 358 0 0 0 24 0 0 0 0 383	0 10 0 48 222 0 0 0	FOY 28 10 280 LOSS 0 0 0 917 944 0 0 0 0 2063 0.39	GAIN 0 0 239 0 0 1117 1220 0 0 0 0 475		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 4266 6256	S GAIN 0 162 96 162 0 49 0 3 173 0 0
HEAT GAIN PEOPLE 240 0 0 0 0 0 0 0 0 0	ROOM USE EXP. WALL CLG, HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SOUTH WEST SYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS SIR CHANGE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 176 0 0 0	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0 0 0	GAIN 0 0 788 0 0 128 0 0 0	0 0 30 82 0 8 300 0 0 0	42 10 420 COSS GA 0 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 117 125 0 9 52 0 0 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 102 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 0 0 22 0 0 13	0 0 15 0 0 0 45 0 0	PWD 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 358 0 0 0 24 0 0 0 0 383	0 10 0 48 222 0 0 0	FOY 28 10 280 10 COS 0 0 0 917 944 0 0 0 0 2063 0 0 9 2063 0 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GAIN 0 0 239 0 0 1117 1220 0 0 0 0 475		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 4266 6256	S GAIN 0 162 96 162 0 49 0 3 173 0 0
HEAT GAIN APPLIANCES/LIGHTS 481 481 481 481 0 0 0 TOTAL HT LOSS BTU/H TOTAL HT GAIN x 1.3 BTU/H 2996 1866 6344 7700 548	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 0 325 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 176 0 0 0 1776 0 0 0 1750 73	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0 0 0	GAIN 0 0 788 0 0 0 128 0 0 0 0	0 0 30 82 0 8 300 0 0 0	42 10 420	0 0 117 1225 0 9 652 0 0 0 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 102 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 0 13 35 1	0 0 15 0 0 0 45 0 0	PWD 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 358 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 48 222 0 0 0	FOY 28 10 280 10 COS 0 0 0 917 944 0 0 0 0 2063 0 0 9 2063 0 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GAIN 0 0 239 0 0 1117 120 0 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 4266 6256	S GAIN 0 162 96 162 0 49 0 0 3 173 0 0 0 0
TOTAL HT LOSS BTU/H 3177 2322 5123 215 686 2858 TOTAL HT GAIN x 1.3 BTU/H 2996 1866 6344 770 548	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT GAIN DUCT GAIN	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 0 176 0 0 1750 73	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0 0 0	GAIN 0 0 788 0 0 0 128 0 0 0 128 0 0 0 138 0 0 0 158 0 0 0 0 158 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 0 0 0 0 0 0 0 0 0 0 0	42 10 420 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 17 17 1225 0 9 9 52 0 0 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 102 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 0 13 3 5 1 52	0 0 15 0 0 45 0 0 0	PWD 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 0 3558 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 48 2222 0 0 0	FOY 28 10 280 10 COS 0 0 0 917 944 0 0 0 0 2063 0 0 9 2063 0 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GAIN 0 0 0 239 0 0 1117 120 0 0 0 0 475 20 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 4266 6256	S GAIN 0 162 96 162 0 49 0 0 3 173 0 0 0 0
TOTAL HT GAIN x 1.3 BTU/H 2996 1866 6344 770 549 2006	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED LOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS OUT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294	GAIN 0 1216 358 0 0 176 0 0 0 1750 73 0 0 0	0 0 33 0 0 0 237 0 0 0	27 10 270 LOSS 0 0 669 0 0 0 1008 0 0 0 0 0	GAIN 0 0 788 0 0 0 128 0 0 0 0 916 38 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 10 420 COSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 17 17 1225 0 9 9 52 0 0 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 102 0 0 153 0 .27 42	GAIN 0 0 0 0 0 0 0 0 22 0 13 35 1 52 0	0 0 15 0 0 45 0 0 0	PWD 6 10 10 10 10 10 10 10 10 10 10 10 10 10	GAIN 0 0 0 358 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 48 2222 0 0 0	FOY 28 10 280 10 COS 0 0 0 917 944 0 0 0 0 2063 0 0 9 2063 0 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	GAIN 0 0 0 239 0 0 1117 1220 0 0 0 0 475 20 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1356 0 0 0 4266 6251	S GAIN 0 162 96 162 0 49 0 3 173 0 0 0 3 47 0
	ROOM USE EXP. WALL CLG, HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN APPLIANCES/LIGHTS	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 1382 0 0 0 0 0 2294 0.39 883	GAIN 0 1216 358 0 0 176 0 0 0 1750 73 0 0 0	0 0 33 0 0 237 0 0 0 0	27 10 270 LOSS 0 0 6659 0 0 0 1008 0 0 0 0 0 1677 0.39 646	GAIN 0 0 788 0 0 0 128 0 0 0 0 916 38 0 0 0	0 0 30 82 0 8 8 300 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	42 10 420	0 0 17 17 1225 0 9 9 52 0 0 0 0		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 153 0 0.27 42 20	GAIN 0 0 0 0 0 0 0 0 22 0 13 35 1 52 0	0 0 15 0 0 45 0 0 0	PWD 6 10 60 LOSS 0 0 0 0 0 0 0 495 0.39 191 0	GAIN 0 0 0 358 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 0 48 2222 0 0 0 0 0	FOY 28 10 280 10 COS 0 0 0 917 944 0 0 0 0 2063 0 0.39 794 0	GAIN 0 0 0 239 0 0 1117 1220 0 0 0 0 475 20 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1355 0 0 0 6257 0.50 1.05 6563	S GAIN 0 162 96 162 0 49 0 3 173 0 0 0 641
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BUCH TOAL	20.3 20.3 20.3 20.3 35.5 19.1 4.3 3.4 1.2 2.6 2.4	GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.4 0.5 1.1 0.3	0 30 15 0 0 325 0 0 0 0	37 10 370 LOSS 0 608 304 0 0 0 0 1382 0 0 0 0 0 0 2294 0.39 883	GAIN 0 1216 358 0 0 0 176 0 0 0 1750 73 0 0 481	0 0 33 0 0 237 0 0 0 0	27 10 270 LOSS 0 0 669 0 0 1008 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 7888 0 0 0 1288 0 0 0 0 916 38 0 0 0 481	0 0 30 82 0 8 8 300 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	42 10 420 COSS G/0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000		3168	0 0 0 42 0 42	LAUN 0 9 9 0 LOSS 0 0 0 0 0 0 0 102 0 0 153 0 0.27 42 20	GAIN 0 0 0 0 0 0 0 0 0 13 3 5 1 52 0 481	0 0 15 0 0 45 0 0 0	PWD 6 10 60 LOSS 0 0 0 0 0 0 0 495 0.39 191 0	GAIN 0 0 0 3558 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 10 0 0 48 2222 0 0 0 0 0	FOY 28 10 280 10 COS 0 0 0 917 944 0 0 0 0 2063 0 0.39 794 0	GAIN 0 0 0 2399 0 0 0 1117 1220 0 0 0 0 475 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1			132 9 792 LOS 0 0 0 4 81 4 81 4 81 0 0 0 20 382 0 0 0 396 1355 0 0 0 6257 0.50 1.05 6563	S GAIN 0 162 96 162 0 49 0 3 173 0 0 0 3 473 0 0 49 0 49 49 0 49 0 49 0 49 0 49 0 0 49 0 0 49 0 0 0 0 0 0 0 0 0 0 0 0 0

TOTAL HEAT GAIN BTU/H:

28814

TONS: 2.40

LOSS DUE TO VENTILATION LOAD BTU/H: 1554

STRUCTURAL HEAT LOSS: 39793

TOTAL COMBINED HEAT LOSS BTU/H: 41347

Mehad Oxombe.

Block 121 Units 7 to 12



NOT THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.

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SITE	E NAME:	BARLAS	SSINA	COL	JE AND A	INT OTH	ILK KEFEI	KENCED	REQUIRE	IMEN I S	•													
BU	UILDER:	GREEN	PARK HO	MES					CHERRY	12 0.6			DATE:	Aug-22			GFA:	2354	LO#	98652				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	928 39,793 23.32	,		LING CFM IEAT GAIN RATE CFM	28,616		а	furı a/c coil vailable	pressure pressure pressure s/a & r/a	0.05 0.2 0.35						,	GMEC960 FAN		GOODMA 60	AN		AFUE = (BTU/H) = (BTU/H) =	60,000	
RUN COUNT	4th	3rd	2nd	1st	Bas													EDLOW			DESI	GN CFM =		_
S/A R/A	0	0	11 5	8	3				ssure s/a	0.18	/		pressure	0.17				MEDIUM				CFM @ .	6 " E.S.P.	_
All S/A diffusers 4"x10" unle									ress. loss ssure s/a	0.02 0.16			ess. Loss ssure r/a	0.02 0.15			MEDIO	M HIGH HIGH	1017 1131	7	TEMPERAT	URF RISE	57	°F
All S/A runs 5"Ø unless not		vise on la	ayout.					•				·												- ·
RUN #	1 MBR	2 ENS	3	4 BED-2	5 BED-3	6 BED-4	7 BATH	8 BED-3	9	10	11	12	13	14	15	16	17	18	19		21	22	23	
RM LOSS MBH.	0.86	1.64	BED-2 1.15	1.15	1.84	1.17	0.84	1.84	LIB 1.59	MBR 0.86	ENS-3 1.25	LIB 1.59	DIN 2.32	KT/FM 1.71	KT/FM 1.71	KT/FM 1.71	LAUN 0.21	PWD 0.69	FOY 2.86		BAS 4.27	BAS 4.27	BAS 4.27	
CFM PER RUN HEAT	20	38	27	27	43	27	20	43	37	20	29	37	54	40	40	40	5	16	67		100	100	100	
RM GAIN MBH.	1.46	1.14	1.58	1.58	1.92	1.52	0.51	1.92	1.50	1.46	0.94	1.50	1.87	2.11	2.11	2.11	0.74	0.52	0.64		0.50	0.50	0.50	
CFM PER RUN COOLING	47	37	51	51	62	49	17	62	49	47	30	49	61	69	69	69	24	17	21		16	16	16	
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	0.17	0.17	0.17	0.17	0.17		0.16	0.16	0.16	
ACTUAL DUCT LGH. EQUIVALENT LENGTH	35 150	43 200	57 180	60 120	64 180	35 140	42 150	54 160	52 130	36 160	37 150	44 130	27	27 80	29 130	21	46 120	39	26		29	16	39	
TOTAL EFFECTIVE LENGTH	185	243	237	180	244	175	192	214	182	196	187	174	140 167	107	159	110 131	130 176	110 149	140 166		130 159	120 136	140 179	
ADJUSTED PRESSURE	0.09	0.07	0.07	0.1	0.07	0.1	0.09	0.08	0.09	0.09	0.09	0.1	0.1	0.16	0.11	0.13	0.1	0.12	0.1		0.1	0.12	0.09	
ROUND DUCT SIZE	5	4	5	5	6	6	4	6	5	5	4	5	5	5	5	5	4	4	5		6	6	6	
HEATING VELOCITY (ft/min)	147	436	198	198	219	138	229	219	272	147	333	272	396	294	294	294	57	184	492		510	510	510	
COOLING VELOCITY (ft/min) OUTLET GRILL SIZE	345 3X10	424 3X10	374 3X10	374 3X10	316 4X10	250 4X10	195 3X10	316 4X10	360 3X10	345 3X10	344 3X10	360 3X10	448 3X10	507 3X10	507 3X10	507 3X10	275 3X10	195 3X10	154 3X10		82	82	82	
TRUNK	C	D	A	B	4710 A	D	D	4X10	A	C	B	A	B	D D	C C	2X10	B	3X10 B	3/10 B		4X10 C	4X10 D	4X10 A	
																							/`	
RUN#																								
ROOM NAME 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	TRUNK	STATIC	ROUND	RECT			VELOCITY			TRUNK	STATIC	ROUND	RECT			VELOCITY	RETURN A	AIR TRUNK TRUNK	STATIC	ROUND	RECT			VELOCITY
	CFM	PRESS.	DUCT	DUCT			(ft/min)			CFM	PRESS.	DUCT	DUCT			(ft/min)		CFM	PRESS.	DUCT	DUCT			VELOCITY (ft/min)
TRUNK A	287	0.07	9.1	10	x	8	517		TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.05	0	0	х	8	0
TRUNK B	485	0.07	11.1	14	X	8	624		TRUNK H	0	0.00	0	0	×X	8	0	TRUNK P	0	0.05	0	0	X	8	0
TRUNK C	220	0.09	7.7	8	X	8	495		TRUNK I	0	0.00	0	0	Х	8	. 0	TRUNK Q	0	0.05	0	0	X	8	0
TRUNK D TRUNK E	445 0	0.07 0.00	10.7 0	14 0	X X	8 8	572 0		TRUNK J TRUNK K	0	0.00 0.00	0	0	X X	8 8	0	TRUNK R	0	0.05 0.05	0	0	X	8 8	0
TRUNK F	ő	0.00	Ö	ő	x	8	0		TRUNK L	0	0.00	Ö	0	x	8	o	TRUNK T	0	0.05	0	0	X X	8	0
																	TRUNK U	0	0.05	0	Ō	х	8	0
RETURN AIR #	1	2	3	4	5	6										BR	TRUNK V	0	0.05 0.05	0	0	X	8 8	0
	ò	Õ	ő	ŏ	0	ő	0	0	0	0	0	0	0	0	0	DIX	TRUNK X	928	0.05	15.3	28	X X	8	597
AIR VOLUME	135	95	85	75	75	360	0	0	0	0	Ō	0	0	0	ŏ	103	TRUNK Y	615	0.05	13.1	20	x	8	554
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	TRUNK Z	255	0.05	9.5	10	X	8	459
ACTUAL DUCT LGH. EQUIVALENT LENGTH	45 175	36 140	64 195	68 235	69 240	38 150	1 0	1 0	1 0	1 0	1 0	1 0	1 0	1 0	1 0	14 180	DROP	928	0.05	15.3	24	Х	10	557
TOTAL EFFECTIVE LH	220	176	259	303	309	188	1	1	1	1	1	1	1	1	1	194								
ADJUSTED PRESSURE	0.07	0.08	0.06	0.05	0.05	0.08	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.08								1
ROUND DUCT SIZE	6.8	5.8	6	6	6	9.6	0	0	0	0	0	0	0	0	0	6								
INLET GRILL SIZE	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	8								1
l	X 14	X 14	X 14	X 14	X 14	X 30	X	X 0	X	X O	X	X	X	X	X	X 14								
INLET GRILL SIZE																								



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TYPE: SITE NAME: CHERRY 12

BARLASSINA

LO# 98652

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL	VENTILATION CAPACITY			9.32.3.5.
a) Direct vent (sealed combustion) only		Total Ventilation Ca	pacity	180.2		cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	il. Capacity	79.5		cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ntal Capacity	100.7		cfm
d) Solid Fuel (including fireplaces)						
e) No Combustion Appliances		PRINCIPAL EXHAL	JST FAN CAPACITY			
		Model:	VANEE V150H	Location:		BSMT
HEATING SYSTEM		79.5	cfm		1	HVI Approved
Forced Air Non Forced Air		PRINCIPAL EXHAU	JST HEAT LOSS CALCULATIO ΔΤ °F			% LOSS
Electric Space Heat		79.5 CFM	X 72 F X	FACTOR 1.08	X	0.25
Electric Space Heat		SUPPLEMENTAL F	FANS BY INS	STALLING CON	ITRACTO	OR
HOUSE TYPE		Location	Model	cfm	HVI	Sones
HOUSE TYPE	9.32.1(2)	ENS BATH	BY INSTALLING CONTRACTOR BY INSTALLING CONTRACTOR	50 50	1	3.5
Type a) or b) appliance only, no solid fuel		ENS-3	BY INSTALLING CONTRACTOR	50	1	3.5
		PWD	BY INSTALLING CONTRACTOR	50	1	3.5
II Type I except with solid fuel (including fireplaces)		UEAT DECOVERY	VENTUATOR			
III Any Type c) appliance		HEAT RECOVERY Model:	VANEE V150H			9.32.3.11.
IV Type I, or II with electric space heat		150	cfm high	35	_	cfm low
Other: Type I, II or IV no forced air		75	% Sensible Efficiency		V	HVI Approved
Cities. Type i, if of tv no forced air			@ 32 deg F (0 deg C)			
SYSTEM DESIGN OPTIONS (LOCATION OF INS	TALLATION			
STSTEW DESIGN OPTIONS	D.N.H.W.P.	Lot:		Concession		
1 Exhaust only/Forced Air System						
2 HRV with Ducting/Forced Air System		Township		Plan:		
✓ 3 HRV Simplified/connected to forced air system		Address				
4 HRV with Ducting/non forced air system		Roll #		Building Pern	nit#	
		BUILDER:	GREENPARK HOMES			
Part 6 Design		Name:				
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:				
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			****	
	cfm	Telephone #:		Fax #:		
Kitchen & Bathrooms5 @ 10.6 cfm53	cfm	INSTALLING CONT	RACTOR			
Other Rooms5 @ 10.6 cfm53.0	cfm	Name:				
Table 9.32.3.A. TOTAL <u>180.2</u>	cfm	Address:				
DDINICIDAL VENTUATION CARACITY DECLUSES		City:				
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Telephone #:		Fax #:		7
1 Bedroom 31.8	cfm		IOATION .			
2 Bedroom 47.7	cfm		his ventilation system has been o	lesigned		
3 Bedroom 63.6	cfm	in accordance with the Name:	ne Ontario Building Code. HVAC Designs Ltd.			
4 Bedroom 79.5	cfm	Signature:	Make	al Ofounde	٠.	
5 Bedroom 95.4	cfm	HRAI#		001820		
TOTAL 79.5 cfm		Date:		August-22		
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIF	FIED IN THE APP	ROPRIATE CATEGORY AS AN	"OTHER DESIGNER" UNDER DIVISION O		DING COE	DE.



			CSA F2	80-12 Residential Hea	at Loss and Heat Gain	n Calculations								
			Form	ula Sheet (For Air Lea	akage / Ventiliation C	Calculation)								
LO#: 9	98652	Model: CHERRY 12			er: GREENPARK HOMES				Date:	2022-08-30				
		Volume Calculatio	n		Air Change & Delta T Data									
				_										
House Volume						WINTER NA	TURAL AIR CHANG	E RATE	0.319					
Level	Floor Area (ft²)	Floor Height (ft)	Volume (ft³)			SUMMER NA	TURAL AIR CHAN	GE RATE	0.085					
Bsmt	1054	9	9486											
First	1054	10	10540											
Second	1300 0	9	11700					emperature Diff						
Third	0	9	0	-		Winter DTDb	Tin °C	Tout °C	ΔT °C	ΔT °F				
Fourth	U	Total:	31,726.0 ft ³	-		Winter DTDh	22	-18 29	40	72				
		Total:	898.4 m³	-		Summer DTDc	24	29	5	9				
		1 Total.	030.4111]										
	5.2.3	3.1 Heat Loss due to Ai	r Leakage			6.2.6 9	ensible Gain due	to Air Leakage						
	$HI_{coint} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_{i_*} \times 1.2$		Н	IG = IR . ×	$\frac{V_b}{V_b} \times DTD$	v 1 2						
		5.0			$HG_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$									
0.319	x <u>249.55</u>	x <u>40 °C</u>	x1.2	= 3847 W	= 0.085	_ x <u>249.55</u>	x5°C	x1.2	_ = [129 W				
				Part 1										
				= 13127 Btu/h					= [442 Btu/h				
	5.2.3.2 He	at Loss due to Mechan	ical Ventilation			6.2.7 Ser	sible heat Gain d	ue to Ventilatio	n					
	ш	$PVC \times DTD_h \times 1$	00 v (1 E)		,,,,	$_{vairb} = PVC \times DT$	"D v 1 00 v	(1 E)						
	IIL_{vairb} —	rvc x DIDh x I	.00 × (1 – E)		I^{IL_1}	vairb — FVC X DI	$D_h \times 1.06 \times$	(1-E)						
90 CEM	72 %	1.00	0.25	4554.04.//	1 00.0514	0.05	4.00		г					
80 CFM	x <u>72 °F</u>	_ x <u>1.08</u>	x <u>0.25</u>	= 1554 Btu/h	80 CFM	_ × <u>9°F</u>	x <u>1.08</u>	x0.25	_ = [197 Btu/h				
			5 2 3 3 Calcula	tion of Air Change Heat	loss for Each Room (Flor	or Multiplier Section)								
			3.2.3.3 Calcula	tion of All Change freat	LOSS TOT LUCIT NOOTH (1 TO	or waitiplier section,								
		HL _{ai}	rr = Level Facto	or \times HL_{airbv} \times {(H	$L_{agcr} + HL_{bgcr}) \div$	$(HL_{agclevel} + HL_{b})$	gclevel)}							
				HLairve Air Leakage +	Level Conductive Heat	Air Leakage Heat Los	s Multiplier (IF x							
		Level	Level Factor (LF)	Ventilation Heat Loss	Loss: (HL _{clevel})	HLairby / H								
				(Btu/h)			•							
		1	0.5	ľ	6,251	1.05								
		2	0.3		10,228	0.38								
		3	0.2	13,127	9,625	0.27								
		4	0		0	0.000			Michael O'Ro	urke				
		5	00		0	0.000)		BCIN# 19669					
		*HLairbv = A	r leakage heat loss +	ventilation heat loss					met 1	1 Okounte.				
-		*For a balance	ed or supply only ve	entilation system HLairve	= 0				Millestoan	1 CHowhe.				



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HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	CHERRY 12			BUILDER: GREENPARK HOMES	
SFQT:	2354	LO#	98652	SITE: BARLASSINA	
DESIGN A	SSUMPTIONS				
	R DESIGN TEMP. DESIGN TEMP. I DATA		°F 0 72	COOLING OUTDOOR DESIGN TEMP. INDOOR DESIGN TEMP. (MAX 75°F) WINDOW SHGC	°F 84 75 0.50
ATTACHM	IENT:		ATTACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	CES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	GES PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGHT	NESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Υ
WIND EXP	POSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	DLUME (ft³):		31726.0	ASSUMED (Y/N):	Υ
INTERNAL	. SHADING:	BLINDS	S/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/h	/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	TION CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	57.0 ft	WIDTH:	25.0 ft	EXPOSED PERIMETER:	132.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Compliano	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 NOT THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS.





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Stat	ion Description
Province:	Ontario	
Region:	Cambridg	ge
	Site De	escription
Soil Conductivity:	Normal co	onductivity: dry sand, loam, clay
Water Table:	Normal (7	7-10 m, 23-33 ft)
	Foundation	n Dimensions
Floor Length (m):	17.4	
Floor Width (m):	7.6	
Exposed Perimeter (m):	40.2	
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	
	Design	Months
Heating Month	1	
	Foundat	tion Loads
Heating Load (Watts):		1250

TYPE: CHERRY 12 **LO#** 98652

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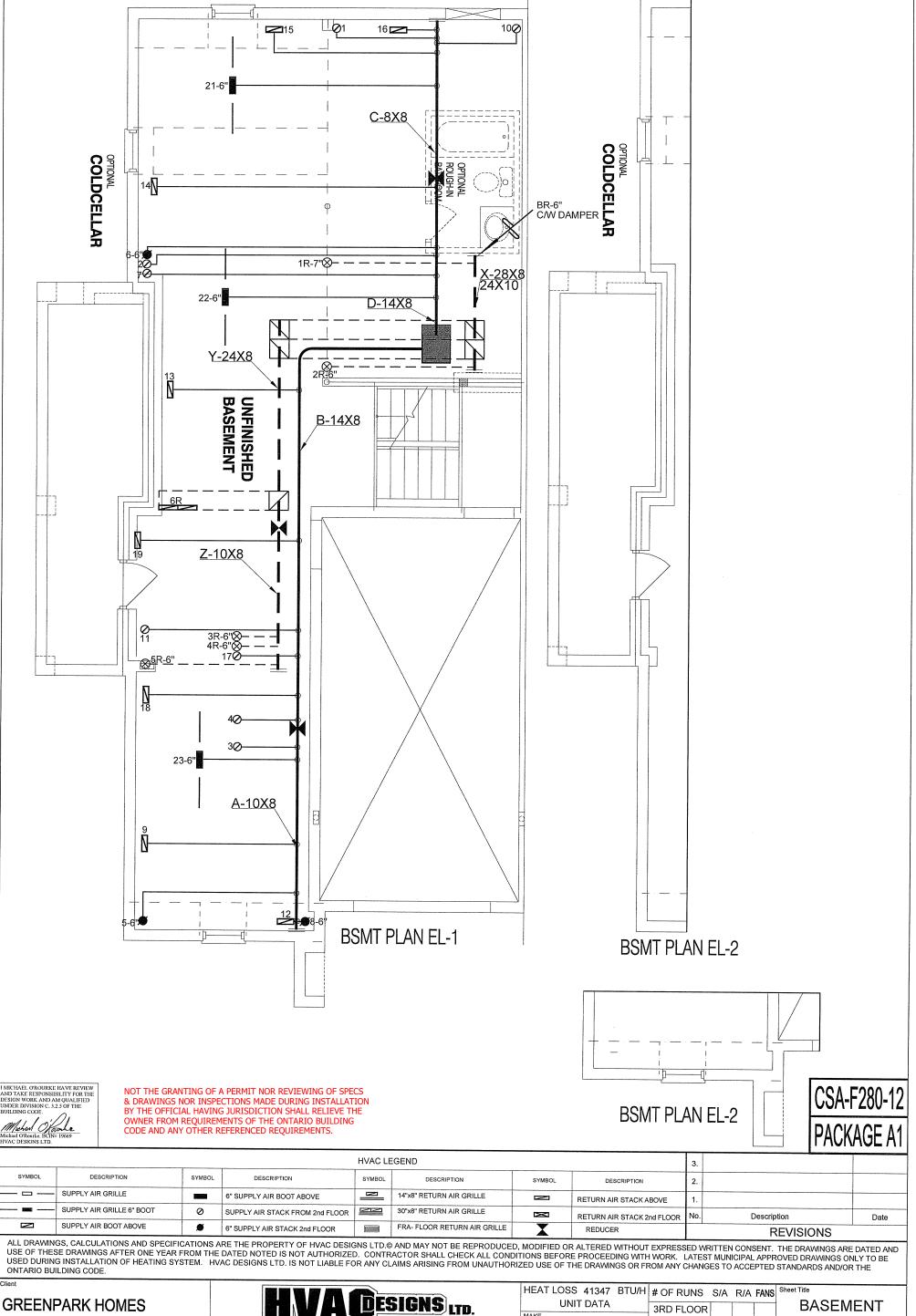
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Sta	tion Des	cript	ion		
Province:	Ontar	io			
Region:	Camb	ridge			
Weather Station Location:	Open	flat te	rrain, {	grass	
Anemometer height (m):	10				
Local S	Shieldin	g			
Building Site:	Subui	ban, f	orest		
Walls:	Heavy	/			
Flue:	Heav	/			
Highest Ceiling Height (m):	6.71				
Building C	onfigur	ation			
Туре:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	898.4				
Air Leakag	e/Venti	atior	1	-	
Air Tightness Type:	Prese	nt (19	61-) (3	.57 ACI	H)
Custom BDT Data:	ELA @	9 10 Pa	Э.		1197.6 cm²
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	tal Sup	ply		Total Exhaust
		37.5			37.5
Flu	e Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Inf	iltration	Rate	es.		
Heating Air Leakage Rate (ACH/H	l):	C).31	9	
Cooling Air Leakage Rate (ACH/H):	C	0.08	5	

TYPE: CHERRY 12 **LO#** 98652

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BARLASSINA CAMBRIDGE, ONTARIO

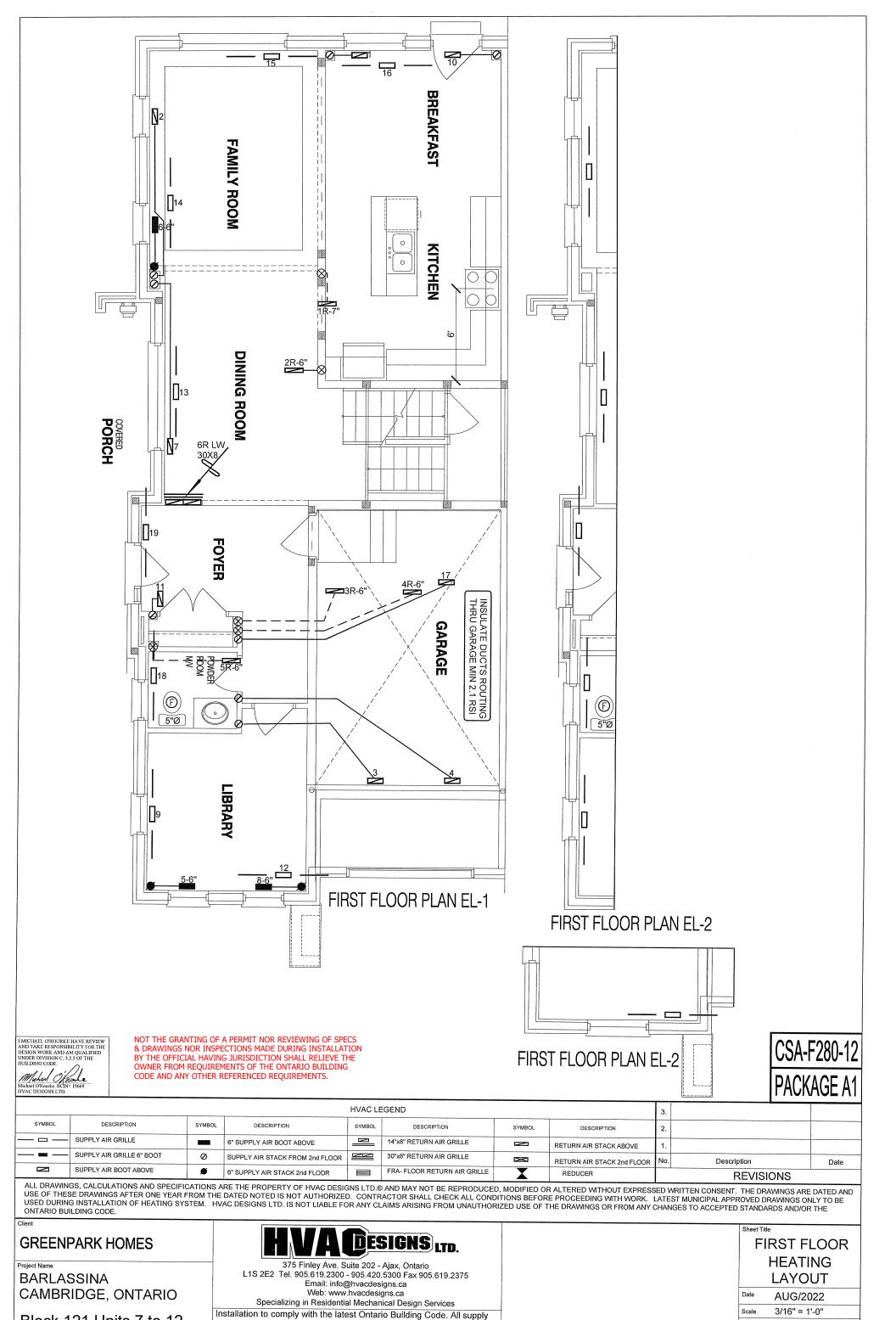
Block 121 Units 7 to 12

CHERRY 12 2354 sqft

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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.

HEA	T LOSS 41347	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title	
	UNIT DATA		3RD FLOOR			Γ	BA	SEMENT
MAKE								
	GOODMAN		2ND FLOOR	11	5	4	 	IEATING
MODE						-	1	AVOLIT
	MEC960603B1	۸A	1ST FLOOR	8	1	2	L	.AYOUT
INPUT		MBTU/H	DAGENERIE	_		_	Date	AUG/2022
	60	WID I O/FI	BASEMENT	3	1	0	,	400/2022
OUTPL		MBTU/H	ALL S/A DIFFUS	SEDS	4 ">10	11	Scale :	3/16" = 1'-0"
	57.6	WIDTOIT	UNLESS NOTE					
COOL	NG	TONS	ON LAYOUT. AI				В	CIN# 19669
	2.5	TONS	UNLESS NOTE					
FAN SF	PEED	cfm @	ON LAYOUT. U				10#	98652
	928	0.6" w.c.	DOORS 1" min.				LU#	30002



branch outlets shall be equipped with a manual balancing damper.

adequately insulated and be gas-proofed.

Ductwork which passes through the garage or unheated spaces shall be

BCIN# 19669

LO#

98652

Block 121 Units 7 to 12

2354 sqft

CHERRY 12

