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HEAT GAIN PEOPLE 1240 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 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 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	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 ON ATTIC 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	20.4 15 20.4 40 20.4 24 20.4 40 34.2 99 27.0 3. 3.9 0. 3.9 0. 1.4 0. 2.9 1.	1 7 7 9 7 5 5 6 2 2		3789				0 78 0 0 632 0 0 65 0	71 10 710 LOSS 0 0 0 1587 0 0 2438 0 0 0 4216	GAIN 0 0 0 3176 0 0 329 0 0 77 0	0 38 0 0 0 292 0 0	33 10 330 LOSS 0 773 0 0 1126 0 0 0 0 1900	GAIN 0 914 0 0 0 152 0 0	34 0 0 0 0 219 0 0 0	23 11 253 LOSS 0 692 0 0 0 845 0 0 0 0 1537	GAIN 0 1384 0 0 0 114 0 0	0 0 7 0 0 0 70 0 0	PWD 7 11 77 CSS 0 0 142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 0 36 0 0 0	0 0 0 0 40 213 0 0	23 111 253 LOSS 0 0 0 0 0 1082 822 0 0 0 0 0 1903	GAIN 0 0 0 0 0 146 111 0 0 0	0 0 0 0 0 20 280 0 0 0	LAUN 25 12 300 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 73 146 0 0 36 0	These plans he corrections as a made without Standards Bra Zoning By-La. Ontario Build approved docu times. The b posted on site : Discipline Building Code Sewage System	Building Stail Ive been remoted. N written a net. All iwe 2018-0- ling Code ments mu uilding p at all times Review H. Auth	GWillindards Branch eviewed fe o other ch pproval oi, work mus 43, as ame e, as am ist be kep eermit mu s. ver BCIN	imbu hasin#16-0-1	with the may be Building oly with and the These te at all clearly	0 0 0 20 0 528 0	176 9 1056 LOSS 183 0 0 541 0 2035 0 0 6322 9081	136 0 0 0 0 73 0 275 0 0
HEAT GAIN APPLIANCES/LIGHTS 601 601 0 0 601 601 601 TOTAL HT LOSS BTU/H 5637 2540 2054 551 2545 2285 15636	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 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 AIR CHANGE HEAT LOSS	20.4 15 20.4 40 20.4 24 20.4 40 34.2 99 27.0 3. 3.9 0. 3.9 0. 1.4 0. 2.9 1.	1 7 7 9 7 5 5 6 2 2		3789			1111	0 78 0 0 632 0 0 65 0	71 10 710 LOSS 0 0 0 1587 0 0 2438 0 0 0 4216	GAIN 0 0 0 3176 0 0 329 0 0 0 77 0 3583	0 38 0 0 0 292 0 0	33 10 330 LOSS 0 773 0 0 1126 0 0 0 0 1900	GAIN 0 0 914 0 0 0 152 0 0 0	34 0 0 0 0 219 0 0 0	23 11 253 LOSS 0 692 0 0 0 845 0 0 0 0 1537	GAIN 0 1384 0 0 0 114 0 0 0	0 0 7 0 0 0 70 0 0	PWD 7 11 77 CSS 0 0 142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 40 213 0 0	23 111 253 LOSS 0 0 0 0 0 1082 822 0 0 0 0 0 1903	GAIN 0 0 0 0 146 111 0 0 0 257	0 0 0 0 0 20 280 0 0 0	LAUN 25 12 300 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 73 146 0 0 255	These plans he corrections as a made without Standards Bra Zoning By-La. Ontario Build approved docu times. The b posted on site : Discipline Building Code Sewage System	Building Stail Ive been remoted. N written a net. All iwe 2018-0- ling Code ments mu uilding p at all times Review H. Auth	GWillindards Branch eviewed fe o other ch pproval oi, work mus 43, as ame e, as am ist be kep eermit mu s. ver BCIN	imbu hasin#16-0-1	with the may be Building oly with and the These te at all clearly	0 0 0 20 0 528 0	176 9 1056 LOSS 183 0 0 541 0 2035 0 0 6322 9081	136 0 0 0 0 73 0 275 0 0
TOTAL HT CANN 4.3 BTIVIL	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST 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 SUB TOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	20.4 15 20.4 40 20.4 24 20.4 40 34.2 99 27.0 3. 3.9 0. 3.9 0. 2.9 1. 2.7 0.	1 7 7 9 7 5 5 6 2 2		2129			1111	0 0 78 0 0 632 0 0 65 0	71 10 710 LOSS 0 0 0 1587 0 0 2438 0 0 0 4216	GAIN 0 0 0 3176 0 0 0 329 0 0 77 0 0 3583	0 38 0 0 292 0 0 0	33 10 330 LOSS 0 773 0 0 1126 0 0 0 0 1900	GAIN 0 0 914 0 0 0 152 0 0 0 0 1067 53 0	34 0 0 0 0 219 0 0 0	23 11 253 LOSS 0 692 0 0 0 845 0 0 0 0 1537	GAIN 0 1384 0 0 0 114 0 0 0 0	0 0 7 0 0 0 0 0 0	PWD 7 11 77 CSS 0 0 142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 0 36 0 0 0 0	0 0 0 0 0 40 213 0 0	23 111 253 LOSS 0 0 0 0 0 1082 822 0 0 0 0 0 1903	GAIN 0 0 0 0 146 111 0 0 0	0 0 0 0 0 20 280 0 0 0	LAUN 25 12 300 LOSS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 0 73 146 0 0 0 36 0	These plans he corrections as a made without Standards Bra Zoning By-La. Ontario Build approved docu times. The b posted on site : Discipline Building Code Sewage System	Building Stail Ive been remoted. N written a net. All iwe 2018-0- ling Code ments mu uilding p at all times Review H. Auth	GWillindards Branch eviewed fe o other ch pproval oi, work mus 43, as ame e, as am ist be kep eermit mu s. ver BCIN	imbu hasin#16-0-1	with the may be Building oly with and the These te at all clearly	0 0 0 20 0 528 0	176 9 1056 LOSS 183 0 0 541 0 2035 0 0 6322 9081	136 0 0 0 0 0 73 0 275 0 0 0
TOTAL HT CAIN v 42 DT1/H	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 EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.4 15 20.4 40 20.4 24 20.4 40 34.2 99 27.0 3. 3.9 0. 3.9 0. 2.9 1. 2.7 0.	1 7 7 9 7 5 5 6 2 2		9189			1111	0 0 78 0 0 632 0 0 65 0	71 10 710 LOSS 0 0 0 1587 0 0 2438 0 0 0 4216	GAIN 0 0 0 3176 0 0 0 77 0 0 3583	0 38 0 0 292 0 0 0	33 10 330 LOSS 0 773 0 0 1126 0 0 0 0 1900	GAIN 0 0 914 0 0 152 0 0 1067	34 0 0 0 0 219 0 0 0	23 11 253 LOSS 0 692 0 0 0 845 0 0 0 0 1537	GAIN 0 1384 0 0 0 114 0 0 0 1499	0 0 7 0 0 0 0 0 0	PWD 7 11 77 CSS 0 0 142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 0 36 0 0 0 0 205	0 0 0 0 0 40 213 0 0	23 111 253 LOSS 0 0 0 0 0 1082 822 0 0 0 0 0 1903	GAIN 0 0 0 0 146 111 0 0 0 257	0 0 0 0 0 20 280 0 0 0	LAUN 25 12 300 LOSS 0 0 0 0 541 1080 0 0 0 1709 0 0.34 576 0	GAIN 0 0 0 0 0 73 146 0 0 36 0	These plans he corrections as a made without Standards Bra Zoning By-La. Ontario Build approved docu times. The b posted on site : Discipline Building Code Sewage System	Building Stail Ive been remoted. N written a net. All iwe 2018-0- ling Code ments mu uilding p at all times Review H. Auth	GWillindards Branch eviewed fe o other ch pproval oi, work mus 43, as ame e, as am ist be kep eermit mu s. ver BCIN	imbu hasin#16-0-1	with the may be Building oly with and the These te at all clearly	0 0 0 20 0 528 0 0	176 9 1056 LOSS 183 0 0 541 0 2035 0 0 6322 9081	136 0 0 0 0 73 0 275 0 0 0
101AL TI GAIN X 1.3 B1 UIT 5669 2237 2826 280 351 1129 1442	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 SLB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.4 15 20.4 40 20.4 24 20.4 40 34.2 99 27.0 3. 3.9 0. 3.9 0. 2.9 1. 2.7 0.	1 7 7 9 7 5 5 6 2 2		2129			1111	0 0 78 0 0 632 0 0 65 0	71 10 710 LOSS 0 0 0 1587 0 0 2438 0 0 0 191 0 0 4216 0.34 1420	GAIN 0 0 0 3176 0 0 0 77 0 0 3583	0 38 0 0 292 0 0 0	33 10 330 LOSS 0 0 0 773 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 914 0 0 152 0 0 1067	34 0 0 0 0 219 0 0 0	23 11 253 LOSS 0 692 0 0 0 845 0 0 0 0 1537 0,34 518	GAIN 0 1384 0 0 0 114 0 0 0 1499	0 0 7 0 0 0 0 0 0	PWD 7 11 17 77 COSS 0 0 0 1442 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 168 0 0 0 36 0 0 0 0 205	0 0 0 0 0 40 213 0 0 0	23 111 253 LOSS 0 0 0 0 0 0 1082 822 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 0 146 111 0 0 0 257	0 0 0 0 0 20 280 0 0 30 0	LAUN 25 12 300 LOSS 0 0 0 0 541 1080 0 0 1709 0 .34 576 0	GAIN 0 0 0 0 0 73 146 0 0 36 0	These plans he corrections as a made without Standards Bra Zoning By-La. Ontario Build approved docu times. The b posted on site : Discipline Building Code Sewage System	Building Stail Ive been remoted. N written a net. All iwe 2018-0- ling Code ments mu uilding p at all times Review H. Auth	GWillindards Branch eviewed fe o other ch pproval oi, work mus 43, as ame e, as am ist be kep eermit mu s. ver BCIN	imbu hasin#16-0-1	with the may be Building oly with and the These te at all clearly	0 0 0 20 0 528 0 0	176 9 1056 LOSS 183 0 0 541 0 2035 0 0 6322 9081	136 0 0 0 0 73 0 275 0 0 0 484
	ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL NET EXPOSED ELG 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 AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BTU/H	20.4 15 20.4 40 20.4 24 20.4 40 34.2 99 27.0 3. 3.9 0. 3.9 0. 2.9 1. 2.7 0.	1 7 7 9 7 5 5 6 2 2		2129			1111	0 0 78 0 0 632 0 0 65 0	71 10 710 LOSS 0 0 0 1587 0 0 2438 0 0 0 191 0 0 4216 0.34 1420	GAIN 0 0 0 3176 0 0 777 0 3583	0 38 0 0 292 0 0 0	33 10 330 LOSS 0 0 0 773 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 0 914 0 0 0 152 0 0 0 1067 53 0 0 601	34 0 0 0 0 219 0 0 0	23 11 253 LOSS 0 692 0 0 0 0 845 0 0 0 0 1537 0.34 518	GAIN 0 1384 0 0 0 1144 0 0 0 14499 74 0 0 601	0 0 7 0 0 0 0 0 0	PWD 7 11 17 77 00 0 0 0 142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GAIN 0 0 1688 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 40 213 0 0 0	23 111 253 LOSS 0 0 0 0 0 1082 822 0 0 0 0 0 1903 0.34 641 0	GAIN 0 0 0 0 1466 1111 0 0 0 0 2577 13 0 0 0 0	0 0 0 0 0 20 280 0 0 30 0	LAUN 25 12 300 LOSS 0 0 0 0 0 541 1080 0 0 1709 0 34 576 0	GAIN 0 0 0 0 0 73 146 0 0 0 255 13	These plans he corrections as a made without Standards Bra Zoning By-La. Ontario Build approved docu times. The b posted on site : Discipline Building Code Sewage System	Building Stail Ive been remoted. N written a net. All iwe 2018-0- ling Code ments mu uilding p at all times Review H. Auth	GWillindards Branch eviewed fe o other ch pproval oi, work mus 43, as ame e, as am ist be kep eermit mu s. ver BCIN	imbu hasin#16-0-1	with the may be Building oly with and the These te at all clearly	0 0 0 20 0 528 0 0	176 9 1056 LOSS 183 0 0 0 541 0 2035 0 0 6322 9081	136 0 0 0 0 73 0 275 0 0 0 484

TOTAL HEAT GAIN BTU/H:

29378

TONS: 2.45

LOSS DUE TO VENTILATION LOAD BTU/H: 1747

STRUCTURAL HEAT LOSS: 46174

TOTAL COMBINED HEAT LOSS BTU/H: 47921

Muhal Kule.



			HALL HO					TYPF:	GLENWA	AY 3A			DATE:	Feb-19			GFA:	2912	I O#	81522				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM	1131 46,174 24,49		COO TOTAL H AIR FLOW F	LING CFM IEAT GAIN RATE CFM	29,142 38.81		а	furnace furr a/c coil vailable	pressure nace filter pressure pressure s/a & r/a	0.6 0.05 0.2 0.35	annande ette film i en ej					C	SMEC960 FAN	#0 603BNA I SPEED LOW	GOODM.	AN	OUTPUT (60,000 57,600	
RUN COUNT S/A R/A All S/A diffusers 4"x10" unle	4th 0 0	3rd 0 0	2nd 11 4	1st 9 3	Bas 4 1		max	s/a dif pi	ssure s/a ress. loss	0.18 0.02 0.16		r/a grille pre usted pre		0.02			N	EDLOW MEDIUM JM HIGH HIGH	1131	т	DESIG		6 " E.S.P.	- °F
All S/A runs 5"Ø unless not				ut.			min auju	asteu pre	ssuic sia	0.10	auj	usicu pie	35ui 6 1/a	0.15				HIGH	1131	,,,	INFLINATO	ME NIGE		
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	1 MBR 1.66 41 1.90 74 0.17 37 190 227 0.08	2 ENS 1.52 37 1.12 43 0.17 19 210 229 0.08		4 BED-2 1.89 46 1.97 76 0.17 60 120 180 0.1	5 BED-3 1.45 36 1.75 68 0.17 55 150 205 0.08	6 BED-4 1.12 27 1.79 70 0.17 52 140 192 0.09	7 BATH 1.07 26 0.42 16 0.17 55 120 175 0.1	8 ENS-3 0.57 14 0.32 12 0.17 41 190 231 0.07	9 BED-2 1.89 46 1.97 76 0.17 55 120 175 0.1	10 MBR 1.66 41 1.90 74 0.17 44 190 234 0.07	11 ENS-4 0.62 15 0.33 13 0.17 17 200 217 0.08	12 BED-3 1.45 36 1.75 68 0.17 57 190 247 0.07	13 KT/FM 1.88 46 1.89 73 0.17 19 140 159 0.11	14 KT/FM 1.88 46 1.89 73 0.17 38 120 158 0.11	15 KT/FM 1.88 46 1.89 73 0.17 44 110 154 0.11	16 LV/DN 2.54 62 2.24 87 0.16 19 110 129 0.13	17 OFF 1.03 25 1.41 55 0.17 39 130 169 0.1	18 PWD 0.55 14 0.28 11 0.17 30 180 210 0.08	19 FOY 2.54 62 0.35 14 0.17 47 140 187 0.09	20 LAUN 2.28 56 1.13 44 0.17 37 160 197 0.09	21 BAS 3.91 96 0.36 14 0.16 14 150 164 0.1	22 BAS 3.91 96 0.36 14 0.16 42 110 152 0.11	23 BAS 3.91 96 0.36 14 0.16 8 140 148 0.11	24 BAS 3.91 96 0.36 14 0.16 40 150 190 0.09
ROUND DUCT SIZE HEATING VELOCITY (ft/min) COOLING VELOCITY (ft/min) OUTLET GRILL SIZE TRUNK	6 209 377 4X10 A	5 272 316 3X10 C		5 338 558 3X10 C	6 184 347 4X10 B	6 138 357 4X10 C	4 298 184 3X10 C	4 161 138 3X10 B	5 338 558 3X10 C	6 209 377 4X10 A	4 172 149 3X10 C	6 184 347 4X10 B	5 338 536 3X10 A	5 338 536 3X10 A	5 338 536 3X10 A	6 316 444 4X10 C	5 184 404 3X10 B	4 161 126 3X10 B	5 455 103 3X10 B	5 411 323 3X10 C	6 489 71 4X10 A	6 489 71 4X10 A	6 489 71 4X10 C	6 489 71 4X10 B
RUN # ROOM NAME RM LOSS MBH. CFM PER RUN HEAT RM GAIN MBH. CFM PER RUN COOLING ADJUSTED PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (fl/min) COOLING VELOCITY (fl/min) OUTLET GRILL SIZE TRUNK	25 OFF 1.03 25 1.41 55 0.17 43 130 173 0.1 5 184 404 3X10 B																		,	These plans It corrections as made withou Standards Bri Zoning By-L Ontario Buil approved doctimes. The posted on site Building Cod. Sewage Syste	nave been resonated. Note that the same and	viewed for other champroval of troops as amendas amendas amendas amendas amendas amendas amendas as	use with the neges may be the Building comply widded, and the ded. These on site at al	e
THORN,																				Zoning				
SUPPLY AIR TRUNK SIZE TRUNK A TRUNK B TRUNK C TRUNK D TRUNK E TRUNK F	TRUNK CFM 412 308 719 0 0	STATIC PRESS. 0.07 0.07 0.07 0.00 0.00 0.00	ROUND DUCT 10.4 9.3 12.8 0 0	RECT DUCT 12 10 20 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 618 554 647 0 0		Trunk g Trunk h Trunk i Trunk j Trunk k Trunk L	TRUNK CFM 0 0 0 0 0	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT O O O O O	RECT DUCT 0 0 0 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK S TRUNK T	AIR TRUNK TRUNK CFM 0 0 0 0 0 0 0 0 0	SIZE STATIC PRESS. 0.05 0.05 0.05 0.05 0.05 0.05	ROUND DUCT 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x x x x	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0 0 0
RETURN AIR # AIR VOLUME PLENUM PRESSURE ACTUAL DUCT LGH. EQUIVALENT LENGTH TOTAL EFFECTIVE LH ADJUSTED PRESSURE ROUND DUCT SIZE INLET GRILL SIZE INLET GRILL SIZE	1 0 130 0.15 38 175 213 0.07 6.8 8 X	2 0 85 0.15 57 185 242 0.06 6 8 X	3 0 115 0.15 63 265 328 0.05 7 8 X	4 0 75 0.15 61 225 286 0.05 6 8 X	5 0 185 0.15 28 150 178 0.08 7.5 8 X	6 0 275 0.15 38 190 228 0.06 9.3 8 X	7 0 85 0.15 41 225 266 0.06 6 8 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	0 0 0.15 1 0 1 14.80 0 0 X	BR 181 0.15 14 175 189 0.08 7.4 8 X 14	TRUNK V TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 315 1131 635 360 1131	0.05 0.05 0.05 0.05 0.05 0.05	0 10.2 16.5 13.3 10.8 16.5	0 12 32 20 14 24	x x x x x	8 8 8 8 8 10	0 473 636 572 463 679



TYPE:

GLENWAY 3A

SITE NAME:

TRINAR HALL HOMES

LO # 81522

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.32.3.1(1)	SUPPLEMENTAL VE	NTILATION CAPACITY			9.32.3.5.		
a) Direct vent (sealed combustion) only	Total Ventilation Capa	city	201.4		cfm		
b) Positive venting induced draft (except fireplaces)	Less Principal Ventil.	Capacity	79.5	_	cfm		
c) Natural draft, B-vent or induced draft gas fireplace	Required Supplements	al Capacity	121.9	(cfm		
d) Solid Fuel (including fireplaces)	DDINOIDAL EVILADO	T. F. I. O. I. O. I. O. I.					
e) No Combustion Appliances	PRINCIPAL EXHAUS						
	Model:	VANEE 65H	Location:	BSMT	-		
HEATING SYSTEM	79.5	cfm 3.0	sones	✓ HVI A	pproved		
Forced Air Non Forced Air	PRINCIPAL EXHAUS	T HEAT LOSS CALCULA		0/	LOSS		
Floris Constitut	79.5 CFM	X 81 F	X 1.08).25		
Electric Space Heat	SUPPLEMENTAL FA	NS	PANASONI	c			
	Location	Model	cfm		ones		
HOUSE TYPE 9.32.1(2)	ENS	FV-05-11VK1	50		0.3		
Toron of each and the control of the	BATH	FV-05-11VK1	50		0.3		
Type a) or b) appliance only, no solid fuel	ENS-4	FV-05-11VK1	50		0.3		
II Type I except with solid first (including first lease)	PWD	FV-05-11VK1	50	1	0.3		
II Type I except with solid fuel (including fireplaces)	UEAT DECOVEDY V	ENTIL ATOR			00044		
III Any Type et englissee	HEAT RECOVERY VI			9	.32.3.11.		
III Any Type c) appliance	Model:	VANEE 65H					
IV Type I, or II with electric space heat	155	cfm high	64	ctr	n low		
Type I, of II with electric space fleat	75	% Sensible Efficience			pproved		
Other: Type I, II or IV no forced air	13	@ 32 deg F (0 deg (•	L I NVI A	pproved		
	LOCATION OF INSTA	NI ATION					
SYSTEM DESIGN OPTIONS O.N.H.W.P.	LOCATION OF INSTA	ALLATION	2.5				
1 Exhaust only/Forced Air System	Lot:		Concession				
	Township		Plan:				
2 HRV with Ducting/Forced Air System	Address						
✓ 3 HRV Simplified/connected to forced air system							
4 HRV with Ducting/non forced air system	Roll#		Building Perr	nit #			
Part 6 Design	BUILDER:	GREENPARK HOM	ES				
ratto Design	Name:			F	ast Gv	willin	nhurv
TOTAL VENTILATION CAPACITY 9.32.3.3(1)	Address:				Building Standar		•
				Our town, Our future			
Basement + Master Bedroom 2 @ 21.2 cfm 42.4 cfm	City:			These plans have corrections as n made without v	oted. No	other char	nges may
Other Bedrooms <u>3</u> @ 10.6 cfm <u>31.8</u> cfm	Telephone #:		Fax #:	Standards Brand Zoning By-Law	h. All wo 2018-043,	rk must o as amen	comply wi ded, and t
Kitchen & Bathrooms 6 @ 10.6 cfm 63.6 cfm	INSTALLING CONTR.	ACTOR		Ontario Building approved documentimes. The building	nents must	be kept of	on site at a
Other Rooms6 @ 10.6 cfm63.6 cfm	Name:			posted on site at		nit must	be clear
Table 9.32.3.A. TOTAL 201.4 cfm	Address:			Discipline Building Code	Reviewer H. Authier		Date 2021-02-0
10 / L 2014 CIII	Address.			Sewage System Zoning			
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1)	City:			Zonnig			
PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4.(1)	Telephone #:		Fax #:		1		
1 Bedroom 31.8 cfm	Li eleptione #.		rax #.				
2 Bedroom 47.7 cfm	DESIGNER CERTIFIC		oon doolar				
,		s ventilation system has be Ontario Building Code.	een aesignea				
3 Bedroom 63.6 cfm	Name:	HVAC Designs Ltd.	, 227				
4 Bedroom 79.5 cfm	Signature:	///	Vechant Okounte	Lighter			
5 Bedroom 95.4 cfm	HRAI#		001820				
TOTAL 79.5 cfm I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPR	Date: OPRIATE CATEGORY AS AN "C	THER DESIGNER" UNDER DIVIS	February-19 SION C, 3.2.5 OF THE BUI	LDING CODE.			
INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE							



LOH: 81522 Model: GLENWAY 3A Builder: GREENPARK HOMES Date: 2/22/2019				CSA F28	80-12 Residential Heat	Loss and Heat Gain	Calculations				
Volume Calculation Air Change & Delta T Data				Form	ula Sheet (For Air Leak	age / Ventiliation C	Calculation)				
Summer DTD Su	LO#:	81522	Model: GLENWAY 3A	1	Builder:	GREENPARK HOMES				Date:	2/22/2019
Level Floor Area (ft²) Floor Height (ft) Volume (ft²) BBmt 1348 9 12132 First 1348 10 13480 Second 1564 9 14076 Third 0 9 0 Fourth 0 9 0 Total: 39,688.0 ft³ Total: 1123.8 m³ Total: 1123.8 m³ Total: 123.8			Volume Calculation	n				Air Change & Del	ta T Data		
Level Floor Area (ft²) Floor Height (ft) Volume (ft²) BBmt 1348 9 12132 First 1348 10 13480 Second 1564 9 14076 Third 0 9 0 Fourth 0 9 0 Total: 39,688.0 ft³ Total: 1123.8 m³ Total: 1123.8 m³ Total: 123.8	House Volume				,	·	WINTER NA	TURAL AIR CHANG	E RATE	0.227	
First 1348 10 13480 Second 1564 9 14076 Third 0 9 9 0 0 14076 Total: 39,688.0 ft³ Total: 39,688.0 ft³ Total: 1123.8 m³ Summer DTDc 24 30 6 11 Summer DTDc 25 Sensible Gain due to Air Leakage $HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2 \\ 0.227 \times 312.18 \times 45 ^{\circ}\text{C} \times 1.2 = 3843 \text{W} \\ = 13111 \text{Btu}/h$ $= 13111 \text{Btu}/h$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $80 \text{CFM} \times 81 ^{\circ}\text{F} \times 1.08 \times 0.25 = 1747 \text{Btu}/h$ $80 \text{CFM} \times 81 ^{\circ}\text{F} \times 1.08 \times 0.25 = 236 \text{Btu}/h$ $80 \text{CFM} \times 11 ^{\circ}\text{F} \times 1.08 \times 0.25 = 236 \text{Btu}/h$		Floor Area (ft²)	Floor Height (ft)	Volume (ft³)							
Second 1564 9 14076 1701d			9	12132							l
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										****	
Fourth 0 9 0 0 10 101 1123.8 m³ Fourth 0 9 0 0 101 122 -23 45 81 Summer DTDc 24 30 6 11 Fourth Total: 39,688.0 ft³ Total: 1123.8 m³ Fourth Total: 122 -23 45 81 Summer DTDc 24 30 6 11 Fourth Summer DTDc 24 30 6 11 Fourth Total: 122.8 m³ Fo											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							Winter DTDh				
Total: 1123.8 m³ 5.2.3.1 Heat Loss due to Air Leakage 6.2.6 Sensible Gain due to Air Leakage HLairb = LRairh × $\frac{V_b}{3.6}$ × DTD _h × 1.2 HG _{salb} = LR _{airc} × $\frac{V_b}{3.6}$ × DTD _c × 1.2 0.227 × 312.18 × 45 °C × 1.2 = 3843 W = 0.063 × 312.18 × 6 °C × 1.2 = 144 W = 13111 Btu/h = 13111 Btu/h = 492 Btu/h = 492 Btu/h 5.2.3.2 Heat Loss due to Mechanical Ventilation 6.2.7 Sensible heat Gain due to Ventilation HL _{vairb} = PVC × DTD _h × 1.08 × (1 - E) HL _{vairb} = PVC × DTD _h × 1.08 × (1 - E) 80 CFM × 81 °F × 1.08 × 0.25 = 1747 Btu/h 80 CFM × 11 °F × 1.08 × 0.25 = 236 Btu/h	rourth	L									
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$ $0.227 \times 312.18 \times 45 ^{\circ}C \times 1.2 = 3843 \text{ W}$ $= 13111 \text{ Btu/h}$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $80 \text{ CFM} \times 81 ^{\circ}F \times 1.08 \times 0.25 = 1747 \text{ Btu/h}$ $HR_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$ $= 0.063 \times 312.18 \times 6 ^{\circ}C \times 1.2 = 144 \text{ W}$ $= 13111 \text{ Btu/h}$ $= 492 \text{ Btu/h}$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $80 \text{ CFM} \times 81 ^{\circ}F \times 1.08 \times 0.25 = 1747 \text{ Btu/h}$ $80 \text{ CFM} \times 11 ^{\circ}F \times 1.08 \times 0.25 = 236 \text{ Btu/h}$			Total:				<u> </u>				11
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$ $0.227 \times 312.18 \times 45 ^{\circ}C \times 1.2 = 3843 \text{W}$ $= 13111 \text{Btu/h}$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $80 \text{CFM} \times 81 ^{\circ}F \times 1.08 \times 0.25 = 1747 \text{Btu/h}$ $HR_{salb} = LR_{airc} \times \frac{V_b}{3.6} \times DTD_c \times 1.2$ $= 0.063 \times 312.18 \times 6 ^{\circ}C \times 1.2 = 144 \text{W}$ $= 13111 \text{Btu/h}$ $= 492 \text{Btu/h}$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $80 \text{CFM} \times 81 ^{\circ}F \times 1.08 \times 0.25 = 236 \text{Btu/h}$											
0.227 x 312.18 x 45 °C x 1.2 = 3843 W = 0.063 x 312.18 x 6 °C x 1.2 = 144 W = 13111 Btu/h = 492 Btu/h 5.2.3.2 Heat Loss due to Mechanical Ventilation $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ 80 CFM x 11 °F x 1.08 x 0.25 = 236 Btu/h		5.2.3	.1 Heat Loss due to Air	r Leakage			6.2.6	Sensible Gain due	to Air Leakage		
$= \boxed{13111 \text{Btu/h}} \\ = \boxed{492 \text{Btu/h}} \\ = \boxed{492 \text{Btu/h}} \\ = \boxed{492 \text{Btu/h}} \\ = \boxed{13111 \text{Btu/h}} \\ = \boxed$		$HL_{airb} =$	$LR_{airh} \times \frac{V_b}{3.6} \times D$	$TD_h \times 1.2$		Н	$IG_{salb} = LR_{airc} \times$	$\times \frac{V_b}{3.6} \times DTD_c$	× 1.2		
5.2.3.2 Heat Loss due to Mechanical Ventilation $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$	0.227	x <u>312.18</u>	x <u>45 °C</u>	x <u>1.2</u>	= 3843 W	= 0.063	x <u>312.18</u>	x <u>6°C</u>	x1.2	. =	144 W
$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1 - E)$ $80 \text{ CFM} \times 81 \text{ °F} \times 1.08 \times 0.25 = \boxed{1747 \text{ Btu/h}}$ $80 \text{ CFM} \times 11 \text{ °F} \times 1.08 \times 0.25 = \boxed{236 \text{ Btu/h}}$					= 13111 Btu/h					=	492 Btu/h
80 CFM x 81 °F x 1.08 x 0.25 = 1747 Btu/h 80 CFM x 11 °F x 1.08 x 0.25 = 236 Btu/h		5.2.3.2 Hea	t Loss due to Mechani	ical Ventilation			6.2.7 Sei	nsible heat Gain d	ue to Ventilatio	n	
200 Stay II		$HL_{vairb} = 1$	$PVC \times DTD_h \times 1$	$.08\times(1-E)$		HL_{i}	$_{vairb} = PVC \times D^{*}$	$TD_h \times 1.08 \times$	(1-E)		
	80 CFM	x <u>81°F</u>	x <u>1.08</u>	x <u>0.25</u>	= 1747 Btu/h	80 CFM	x <u>11°</u> F	x <u>1.08</u>	x <u>0.25</u>	. =	236 Btu/h
5.2.3.3 Calculation of Air Change Heat Loss for Each Room (Floor Multiplier Section)				5.2.3.3 Calculat	tion of Air Change Heat Lo	ss for Each Room (Floo	or Multiplier Section)				

$$HL_{airr} = Level \; Factor \; \times \; HL_{airbv} \; \times \{ \left(HL_{agcr} + \; HL_{bgcr} \right) \div \left(HL_{agclevel} + HL_{bgclevel} \right) \}$$

Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (Btu/h)	Level Conductive Heat Loss: (HL _{clevel})	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)
1	0.5		9,081	0.722
2	0.3		11,678	0.337
3	0.2	13,111	11,862	· 0.221
4	0		0	0.000
5	0		0	0.000

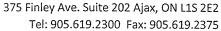
^{*}HLairbv = Air leakage heat loss + ventilation heat loss



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

^{*}For a balanced or supply only ventilation system HLairve = 0



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

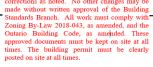


HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	GLENWAY 3A			BUILDER: GREENPARK HOME	
SFQT:	2912	LO#	81522	SITE: TRINAR HALL HOM	ES
DESIGN A	ASSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOO	R DESIGN TEMP.		-9	OUTDOOR DESIGN TEMP.	86
INDOOR I	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	75
BUILDING	G DATA				
ATTACHM	IENT:	[DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FA	ACES:		EAST	ASSUMED (Y/N):	Υ
AIR CHAN	IGES PER HOUR:		2.50	ASSUMED (Y/N):	Υ
AIR TIGHT	TNESS CATEGORY:		TIGHT	ASSUMED (Y/N):	Υ
WIND EX	POSURE:	S	HELTERED	ASSUMED (Y/N):	Υ
HOUSE VO	OLUME (ft³):		39688.0	ASSUMED (Y/N):	Υ
INTERNAL	. SHADING:	BLINDS/	CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR	LIGHTING LOAD (Btu/	/h/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N):	Υ
FOUNDAT	TION CONFIGURATION	I	BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	54.0 ft	WIDTH:	34.0 ft	EXPOSED PERIMETER:	176.0 ft

2012 OBC - COMPLIANCE PACKAGE			
Component		Compliance ENERG	Package GYSTAR
		Nominal	Min. Eff.
Ceiling with Attic Space Minimum RSI (R)-Value		60	59.20
Ceiling Without Attic Space Minimum RSI (R)-Value		31	27.70
Exposed Floor Minimum RSI (R)-Value		31	29.80
Walls Above Grade Minimum RSI (R)-Value		R22+R5	21.10
Basement Walls Minimum RSI (R)-Value		20	21.12
Below Grade Slab Entire surface > 600 mm below grade I	Minimum RSI (R)-Value	-	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minim	um RSI (R)-Value	10	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RS	I (R)-Value	10	11.13
Windows and Sliding Glass Doors Maximum U-Value	Town of	ZONE 2	-
Skylights Maximum U-Value	East Gwillimbury	ZONE 2	-
Space Heating Equipment Minimum AFUE	Building Standards Branch BCIN #16487	0.96	-
HRV Minimum Efficiency	These plans have been reviewed for use with the	75%	-
Domestic Hot Water Heater Minimum EF	corrections as noted. No other changes may be made without written approval of the Building	0.9	-

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE



Reviewer	BCIN	Date
H. Authier	43236	2021-02-08





Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Sta	ation Description	
Province:	Ontario	4 11	
Region:	Bradford	d	
	Site D	Description	
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay	
Water Table:	Normal	(7-10 m, 23-33 ft)	
	Foundatio	on Dimensions	
Floor Length (m):	16.5		
Floor Width (m):	10.4		
Exposed Perimeter (m):	0.0		
Wall Height (m):	2.7		
Depth Below Grade (m):	1.83	Insulation Configuration	1
Window Area (m²):	0.8		econdo de caracterista (
Door Area (m²):	1.9		
	Radi	iant Slab	
Heated Fraction of the Slab:	0		
Fluid Temperature (°C):	33		
	Desig	n Months	
Heating Month	1		
	Founda	ation Loads	East Gwillimbury Building Standards Branch BCIN #16487
Heating Load (Watts):		1852	These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building

TYPE: GLENWAY 3A **LO#** 81522

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weath	ner Station Description
Province:	Ontario
Region:	Bradford
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
	Local Shielding
Building Site:	Suburban, forest
Walls:	Heavy
Flue:	Неаvy
Highest Ceiling Height (m):	6.71
Buil	lding Configuration
Type:	Detached
Number of Stories:	Two
Foundation:	Full
House Volume (m³):	1123.8
Air L	eakage/Ventilation
Air Tightness Type:	Energy Star Detached (2.5 ACH)
Custom BDT Data:	ELA @ 10 Pa. 1049.1 cm ²
	2.50 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply Total Exhaust
	37.5 37.5
	Flue Size
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Natu	ral Infiltration Rates
Heating Air Leakage Rate (A	ACH/H): 0.227
Cooling Air Leakage Rate (A	SCH/H): 0.063 East Gwil

TYPE: GLENWAY 3A LO# 81522

These plans have been reviewed for use with the These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amehded. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

