### **Schedule 1: Designer Information**

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A Proj	ect Information						
	umber, street name			Tı.	Jnit no.	Lot/con.	
Dallaling 11	amber, street name				Jilit 110.	200,0011.	
Municipal	ity	Postal code	Plan number/ other des	cription			
BRAMPTO	N						
B. Indiv	idual who reviews and tak	es responsibility f	or design activities				
Name			Firm				_
MICHAEL	. O'ROURKE		HVAC DESIGNS LTD.				
Street add	dress			Unit no.		Lot/con.	
375 FINL	EY AVE			202		N/A	
Municipal	ty	Postal code	Province	E-mail			
AJAX		L1S 2E2	ONTARIO	info@hvacdesi	gns.ca		
Telephone		Fax number		Cell number			
(905) 619	0-2300	(905) 619-2375		( )			
C. Desi	gn activities undertaken b	y individual identif	ied in Section B. [Buil	ding Code Tab	le 3.5.2.1 OF Di	ivision C]	
☐ Hou	se	⊠ HVAC	C – House	□в	uilding Structu	ıral	
	all Buildings	🖵 Buildii	ng Services	□ P	lumbing – Hou	use	
	ge Buildings		tion, Lighting and Pov		lumbing – All		
	nplex Buildings	☐ Fire P	ı		n-site Sewage	e Systems	
HEAT LO DUCT SIZ RESIDEN RESIDEN	TIAL MECHANICAL VENTILA TIAL SYSTEM DESIGN per C		Model:  MARY Project:	SD-6 C CNR - OPT. 4 BEI ENCORE	D		
D. Decla	aration of Designer						
I	MICHAEL O'ROURKE	(print name)		declare that	t (choose one as	appropriate):	
	I review and take responsibil Division C, of the Building Coclasses/categories.	ity for the design work ode. I am qualified, an	on behalf of a firm registed the firm is registered, in	ered under subsec the	ation 3.2.4.of appropriate		
	Individual BCIN: Firm BCIN:						
X	I review and take responsibil designer" under subsection		am qualified in the appropion C, of the Building Code		an "other		
	Individual BCIN: Basis for exempti	19669 on from registration a	nd qualification:	O.B.C SENTI	ENCE 3.2.4.1	(4)	
	The design work is exempt Basis for exemption from reg	from the registra gistration and qualifica	ition and qualification requition:	irements of the Bu	uilding Code.		
I certify th	nat:						
	<ol> <li>The information contained</li> <li>I have submitted this application</li> </ol>		dule is true to the best of n vledge and consent of the				
	September 28, 2017			Michael	Offmhe	2 -	
	Date				Signature of D	esigner	

#### NOTE

<sup>1.</sup> For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.

<sup>2.</sup> Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.



	ENCO									PT. 4 BED							ATE: Sep-1						HANGE RATE 0.31		S ΔT °F.			CSA-F28	
BUILDER:	GOLD	PARK	HOME	S			•	TYPE:	SD-6 C					2032		L	LO# 76093	3		S	UMME	R NATURAL AIR C	HANGE RATE 0.10	8 HEAT GAI	N ΔT °F.	14	SB-12 P	ACKAG	E A1
ROOM USE				MBR			ENS					BED-2	2		BED-3		BED-	4		BATH	ı								
EXP. WALL				17			22					21			14		39			0									
CLG. HT.				9			9					9			9		9			9									
	FACTO	RS																											
GRS.WALL AREA	LOSS	GAIN		145			187					189			126		351			0									
GLAZING				LOSS	GAIN		LOSS	GAIN				LOSS	GAIN		LOSS G	MN	LOSS	GAIN		LOSS	GAIN								
NORTH	20.8	16.1	0	0	0	0	0	0			0	0	0	0	0	0	0 0	0	0	0	0								
EAST	20.8	41.3	0	0	0	0	0	0			0	0	0	36	748 1	85	35 727	1444	0	0	0								
SOUTH	20.8	24.9	0	0	0	16	332	398			46	956	1144	0	0	0	0 0	0	20	416	498								
WEST	20.8	41.3	32	665	1320	22	457	908			0	0	0	0	0	0	0 0	0	0	0	0								
SKYLT.	36.4	102.1	0	0	0	0	0	0			0	0	0	0	0	0	0 0	0	0	0	0								
DOORS	24.7	4.7	0	0	0	0	0	ō			0	0	ō	0	0	0	0 0	ō	ō	0	0								
NET EXPOSED WALL	4.4	0.8	113	490	92	149	649	122			143		118	90			316 1377		-20	-87	-16								
NET EXPOSED BSMT WALL ABOVE GR	3.5	0.7	0	0	0	0	0	0			0	0	0	0	0		0 0	0	0	0	0								
EXPOSED CLG	1.3	0.6	303	380	184	112	140	68			191	-	116	187			133 167	81	84	105	51								
NO ATTIC EXPOSED CLG	2.7	1.3	0	0	0	0	0	0			55	148	72	0			105 282	137	0	0	0								
EXPOSED FLOOR	2.7				14	0		0			0		0	187			0 0	0	0	0	0								
BASEMENT/CRAWL HEAT LOSS	2.5	0.5	30	75 0	14	U	0	J			"	0	U	107	466 0	8	0 0	U	۰	0	U	ĺ	1	1					
				0			0					0			0		0			0		ĺ	1	1					
SLAB ON GRADE HEAT LOSS				-			·					4000			-		-			-		ĺ	1	1					
SUBTOTAL HT LOSS				1609	4044		1579	4406				1966	4455		1840		2552			434	<b>500</b>	1							
SUB TOTAL HT GAIN					1611			1496					1450			61		1921			532								
LEVEL FACTOR / MULTIPLIER			0.20			0.20					0.20	0.22		0.20		10	0.20 0.22		0.20	0.22									
AIR CHANGE HEAT LOSS				352			345					430			402		558			95									
AIR CHANGE HEAT GAIN					117			108					105			27		139			39								
DUCT LOSS				196			0					0			224		0			0									
DUCT GAIN					263			0					0		- 2	55		0			0								
HEAT GAIN PEOPLE	240		2		480	0		0			1		240	1	- 2	40	1	240	0		0								
HEAT GAIN APPLIANCES/LIGHTS					418			418					418			18		418			418								
TOTAL HT LOSS BTU/H				2157			1924					2396			2467		3111			528									
TOTAL HT GAIN x 1.3 BTU/H					3755			2629					2877		•	41		0504			1285								
															ა	141		3534			1203								
															3	141		3534			1203								
ROOM USE				FORM						T/FM					<u></u>			3534	I	FOY	1203					1		BAS	
ROOM USE EXP. WALL				31						48								3534		43	1203							BAS 148	
ROOM USE															3			3534			1203								
ROOM USE EXP. WALL CLG. HT.	FACTO			31						48								3534		43	1203							148	
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA				31						48								3534		43	1203							148	
ROOM USE EXP. WALL CLG. HT.				31 10 295						48 10	IN							3534		43 10 430	GAIN							148 9 1012	GAIN
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA				31 10 295	ı					48 10 456	IN				3			3534		43 10 430							Ī	148 9 1012 LOSS (	GAIN 225
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING	LOSS	GAIN		31 10 295 LOSS	GAIN				L	48 10 456 OSS GA	IN				3			3534		43 10 430 LOSS	GAIN 0						Ī	148 9 1012 LOSS (	
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH	20.8 20.8	GAIN 16.1	0	31 10 295 LOSS 0	GAIN 0				L 0 0	48 10 456 OSS GA 0 0						1		3534	0	43 10 430 LOSS 0	GAIN 0						Ī	148 9 1012 LOSS ( 291	225
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST	20.8 20.8	16.1 41.3	0	31 10 295 LOSS 0 0	GAIN 0 0				L 0 0 36	48 10 456 OSS GA 0 0	6				3			3534	0 13	43 10 430 LOSS 0 270	6 GAIN 0 536						14 0	148 9 1012 LOSS ( 291 0	225 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH	20.8 20.8 20.8 20.8	16.1 41.3 24.9	0 0 24	31 10 295 LOSS 0 0 499	GAIN 0 0 597				L 0 0 36	48 10 456 OSS GA 0 0 0 0 748 89	6				3			3534	0 13 10	43 10 430 LOSS 0 270 208	6 GAIN 0 536 249						14 0 0	148 9 1012 LOSS ( 291 0	225 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST	20.8 20.8 20.8 20.8 20.8	16.1 41.3 24.9 41.3	0 0 24 0	31 10 295 LOSS 0 0 499 0	GAIN 0 0 597 0				0 0 36 82	48 10 456 OSS GA 0 0 0 0 748 89 1704 338	6				3	1		3534	0 13 10 0	43 10 430 LOSS 0 270 208 0	6 GAIN 0 536 249 0						14 0 0	148 9 1012 LOSS ( 291 0 0 0	225 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT.	20.8 20.8 20.8 20.8 20.8 36.4	16.1 41.3 24.9 41.3 102.1	0 0 24 0	31 10 295 LOSS 0 0 499 0	GAIN 0 0 597 0				L 0 0 36 82 0	48 10 456 OSS GA 0 0 0 0 748 89 1704 338 0 0	6				3			3534	0 13 10 0	43 10 430 LOSS 0 270 208 0	6 GAIN 0 536 249 0 0						14 0 0 0	148 9 1012 LOSS ( 291 0 0 0	225 0 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS	20.8 20.8 20.8 20.8 20.8 36.4 24.7	16.1 41.3 24.9 41.3 102.1 4.7	0 0 24 0 0	31 10 295 LOSS 0 0 499 0 0	GAIN 0 0 597 0 0				L 0 0 36 82 0	48 10 456 OSS GA 0 0 0 748 89 704 338 0 0	6				3			3534	0 13 10 0 0	43 10 430 LOSS 0 270 208 0 0	6 GAIN 0 536 249 0 0						14 0 0 0 0 20	148 9 1012 LOSS 0 291 0 0 0 493 0	225 0 0 0 0 0 93
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL	20.8 20.8 20.8 20.8 20.8 36.4 24.7 4.4	16.1 41.3 24.9 41.3 102.1 4.7 0.8	0 0 24 0 0 20 251	31 10 295 LOSS 0 0 499 0 0 493 1091	GAIN 0 0 597 0 0 93 206				0 0 36 82 0 0	48 10 456 OSS GA 0 0 0 748 89 1704 338 0 0 0 0 0 473 27	6				3			3534	0 13 10 0 0 60 347	43 10 430 LOSS 0 270 208 0 0 1479 1512	6 GAIN 0 536 249 0 0 279 285						14 0 0 0 0 20	148 9 1012 LOSS 0 291 0 0 0 493 0	225 0 0 0 0 0 93 0
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7	0 0 24 0 0 20 251	31 10 295 LOSS 0 0 499 0 0 493 1091 0	GAIN 0 0 597 0 0 93 206				0 0 36 82 0 0 338	48 10 456 OSS GA 0 0 0 748 89 1704 338 0 0 0 0 473 27 0 0	6				3			3534	0 13 10 0 60 347	43 10 430 LOSS 0 270 208 0 0 1479 1512 0	6 GAIN 0 536 249 0 0 279 285						14 0 0 0 0 20 0	148 9  1012  LOSS (291 0 0 0 0 493 0 864	225 0 0 0 0 0 93 0 163
ROOM USE EXP. WALL CLG. HT.  GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7	0 0 24 0 0 20 251 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0	GAIN 0 0 597 0 0 93 206 0				0 0 36 82 0 0 338 0	48 10 456 OSS GA 0 0 0 0 748 89 1704 338 0 0 0 0 473 27 0 0 0 0	6				3	141		3534	0 13 10 0 60 347 0	430 LOSS 0 270 208 0 0 1479 1512 0	6 GAIN 0 536 249 0 279 285 0						14 0 0 0 0 20 0 22 0	148 9  1012  LOSS 0 291 0 0 493 0 864 0	225 0 0 0 0 93 0 163
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0	GAIN 0 597 0 93 206 0				0 0 36 82 0 0 338 0	48 10 456 OSS GA 0 0 0 0 748 89 7704 338 0 0 0 0 0 0 0473 27 0 0 0 0	6				3	141		3534	0 13 10 0 60 347 0	430 LOSS 0 270 208 0 0 1479 1512 0 0	6 GAIN 0 536 249 0 0 279 285 0 0						14 0 0 0 0 20 0 246 0	148 9  1012  LOSS (291 0 0 0 493 0 864 0 0 0	225 0 0 0 0 93 0 163 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 NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0	31 10 295 LOSS 0 499 0 0 493 1091 0 0	GAIN 0 597 0 93 206 0				0 0 36 82 0 0 338 0	48 10 456 OSS GA 0 0 0 748 89 1704 338 0 0 0 473 27 0 0 0 0 0 0 0 0	6				3	141		3534	0 13 10 0 60 347 0	430 LOSS 0 270 208 0 0 1479 1512 0 0	6 GAIN 0 536 249 0 0 279 285 0 0						14 0 0 0 0 20 0 246 0	148 9  1012  LOSS (291 0 0 0 493 0 864 0 0 0 0	225 0 0 0 0 93 0 163 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0	31 10 295 LOSS 0 499 0 493 1091 0 0 0	GAIN 0 597 0 93 206 0				0 0 36 82 0 0 338 0 0	48 10 456 OSS GA 0 0 0 748 89 704 338 0 0 0 1473 27 0 0 0 0 0 0	6				3	141		3534	0 13 10 0 60 347 0	43 10 430 LOSS 0 270 208 0 0 1479 1512 0 0 0	6 GAIN 0 536 249 0 0 279 285 0 0						14 0 0 0 0 20 0 246 0 0	148 9  1012  LOSS (291 0 0 0 493 0 864 0 0 0 0	225 0 0 0 0 93 0 163 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST 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 SLAB ON GRADE HEAT LOSS SUBTOTAL HT LOSS	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0 0	GAIN 0 0 597 0 93 206 0 0				0 0 36 82 0 0 338 0 0	48 10 456 OSS GA 0 0 0 0 748 89 704 338 0 0 0 473 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3	41		3534	0 13 10 0 60 347 0	430 LOSS 0 270 208 0 0 1479 1512 0 0 0 0	6 GAIN 0 536 249 0 0 279 285 0 0						14 0 0 0 0 20 0 246 0 0	148 9  1012  LOSS (291 0 0 0 0 493 0 864 0 0 0 3695	225 0 0 0 93 0 163 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 USE NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 220 251 0 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 597 0 93 206 0				0 0 36 82 0 0 338 0 0 0	48 10 456 OSS GA 0 0 0 0 748 89 7704 338 0 0 0 0 473 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3	141		3534	0 13 10 0 60 347 0 0	430 LOSS 0 270 208 0 0 1479 1512 0 0 0 0 0 3469	6 GAIN 0 0 536 249 0 0 279 285 0 0 0 0						14 0 0 0 0 20 0 246 0	148 9 1012 LOSS (291 0 0 0 493 0 864 0 0 3695 5343	225 0 0 0 0 93 0 163 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE OR EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 220 251 0 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 93 206 0 0				0 0 36 82 0 0 338 0 0 0	48 10 456 OSS GA 0 0 0 0 748 89 7704 338 0 0 0 4473 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3	141		3534	0 13 10 0 60 347 0 0	430 LOSS 0 270 208 0 0 1479 1512 0 0 0 0 0 3469	6 GAIN 0 0 536 249 0 0 279 285 0 0 0 0						14 0 0 0 0 20 0 246 0 0	148 9  1012  LOSS (291 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	225 0 0 0 93 0 163 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 BSMT WALL ABOVE GR EXPOSED CLG 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	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 220 251 0 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 93 206 0 0 0				0 0 36 82 0 0 338 0 0 0	48 10 456 OSS GA 0 0 0 0 0 748 89 7704 338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3			3534	0 13 10 0 60 347 0 0	430 LOSS 0 270 208 0 0 1479 1512 0 0 0 0 0 3469	6 GAIN 0 536 249 0 0 279 285 0 0 0						14 0 0 0 0 20 0 246 0 0	148 9 1012 LOSS (291 0 0 0 493 0 864 0 0 3695 5343	225 0 0 0 0 93 0 163 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 BSMT WALL ABOVE GR 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	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 220 251 0 0 0	31 10 295 LOSS 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 93 206 0 0				0 0 36 82 0 0 338 0 0 0	48 10 456 OSS GA 0 0 0 0 0 748 89 7704 338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3			3534	0 13 10 0 60 347 0 0	43 10 430 0 270 208 0 0 1479 1512 0 0 0 0 3469	6 GAIN 0 0 536 249 0 0 279 285 0 0 0 0						14 0 0 0 0 20 0 246 0 0	148 9  1012 LOSS ( 291 0 0 0 493 0 864 0 0 3695 5343 1.02 5456	225 0 0 0 93 0 163 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST SOUTH WEST SKYLT. DOORS NET EXPOSED WALL NET EXPOSED WALL AND EXPOSED CLG NO ATTIC EXPOSED CLG EXPOSED CLG EXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SLAB ON GRADE HEAT LOSS SUBTOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 220 251 0 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 0 93 206 0 0 0 0 0 0 896				0 0 36 82 0 0 338 0 0 0	48 10 456 OSS GA 0 0 0 0 748 89 7704 338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3			3534	0 13 10 0 60 347 0 0	430 LOSS 0 270 208 0 0 1479 1512 0 0 0 0 0 3469	GAIN 0 536 249 0 0 279 285 0 0 0						14 0 0 0 0 20 0 246 0 0	148 9  1012  LOSS (291 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	225 0 0 0 0 93 0 163 0 0 0
ROOM USE EXP. WALL CLG. HT. GRS.WALL AREA GLAZING NORTH EAST 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 SLAB ON GRADE HEAT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT GAIN DUCT LOSS DUCT GAIN	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7 2.5	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0 0	31 10 295 LOSS 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 93 206 0 0 0				L 0 0 36 82 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	48 10 456 OSS GA 0 0 0 0 748 89 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 33 8				3			3534	0 13 10 0 0 60 347 0 0 0	43 10 430 0 270 208 0 0 1479 1512 0 0 0 0 3469	GAIN 0 536 249 0 0 279 285 0 0 0 0						14 0 0 0 0 20 0 246 0 0	148 9  1012 LOSS ( 291 0 0 0 493 0 864 0 0 3695 5343 1.02 5456	225 0 0 0 0 93 0 163 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 NO ATTIC EXPOSED CLG EXPOSED CLG NO ATTIC EXPOSED CLG SEXPOSED FLOOR BASEMENT/CRAWL HEAT LOSS SUBTOTAL HT LOSS SUBTOTAL HT LOSS SUB TOTAL HT GAIN LEVEL FACTOR / MULTIPLIER AIR CHANGE HEAT LOSS AIR CHANGE HEAT LOSS DUCT GAIN HEAT GAIN PEOPLE	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7 2.5	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 220 251 0 0 0	31 10 295 LOSS 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 0 93 206 0 0 0 896				0 0 36 82 0 0 338 0 0 0	48 10 456 OSS GA 0 0 0 0 0 748 89 7704 338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				3			3534	0 13 10 0 60 347 0 0	43 10 430 0 270 208 0 0 1479 1512 0 0 0 0 3469	GAIN 0 0 536 249 0 0 0 279 285 0 0 0 0 1349 98						14 0 0 0 0 20 0 246 0 0	148 9  1012 LOSS ( 291 0 0 0 493 0 864 0 0 3695 5343 1.02 5456	225 0 0 0 0 93 0 163 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 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 DUCT GAIN HEAT GAIN PEOPLE HEAT GAIN APPLIANCES/LIGHTS	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7 2.5	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0 0	31 10 295 LOSS 0 0 499 0 0 493 1091 0 0 0 0 2083 720	GAIN 0 0 597 0 0 93 206 0 0 0 0 0 0 896				L C C C C C C C C C C C C C C C C C C C	48 10 456 OSS GA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				3			3534	0 13 10 0 0 60 347 0 0 0	43 10 430 LOSS 0 270 208 0 0 1479 1512 0 0 0 0 3469 0.35 1198	GAIN 0 536 249 0 0 279 285 0 0 0 0						14 0 0 0 0 20 0 246 0 0	148 9 1012 LOSS 0 0 0 0 493 0 864 0 0 0 3695 5343 1.02 5456 0	225 0 0 0 0 93 0 163 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 BSMT WALL ABOVE OR 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 DUCT GAIN HEAT GAIN PEOPLE	20.8 20.8 20.8 20.8 36.4 24.7 4.4 3.5 1.3 2.7 2.5	16.1 41.3 24.9 41.3 102.1 4.7 0.8 0.7 0.6 1.3	0 0 24 0 0 20 251 0 0 0	31 10 295 LOSS 0 499 0 0 493 1091 0 0 0 0 2083	GAIN 0 0 597 0 0 93 206 0 0 0 896				L C C C C C C C C C C C C C C C C C C C	48 10 456 OSS GA 0 0 0 0 0 748 89 7704 338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	88				3			3534	0 13 10 0 0 60 347 0 0 0	43 10 430 0 270 208 0 0 1479 1512 0 0 0 0 3469	GAIN 0 0 536 249 0 0 0 279 285 0 0 0 0 1349 98						14 0 0 0 0 20 0 246 0 0	148 9 1012 LOSS 0 0 0 0 0 864 0 0 0 3695 5343 1.02 5456 0 10799	225 0 0 0 0 93 0 163 0 0 0

TOTAL HEAT GAIN BTU/H:

29959 TONS: 2.50 LOSS DUE TO VENTILATION LOAD BTU/H: 2404

STRUCTURAL HEAT LOSS: 36132

TOTAL COMBINED HEAT LOSS BTU/H: 38536





INLET GRILL SIZE

7.5 8 X

14

		: ENCOR : GOLD P		MES				TYPE:			D		DATE:	Sep-17			GFA:	2032	LO#	76093				
HEATING CFM TOTAL HEAT LOSS AIR FLOW RATE CFM RUN COUNT			TOTAL F	PLING CFM HEAT GAIN RATE CFM	29,505	1	ā	furn: a/c coil ¡ vailable p	pressure ace filter pressure oressure s/a & r/a	0.2						E			<b>^LENNO</b> 2 <b>45</b> 0 650	x	OUTPUT	AFUE = (BTU/H) = (BTU/H) =	44,000 <b>43,000</b>	
S/A R/A All S/A diffusers 4"x10" unle	0	0	9	4	3 1		max	enum pres s/a dif pre usted pres	ess. loss	0.03		r/a ן grille pre usted pres		0.17 0.02 0.15			N	MEDIUM M HIGH HIGH	950	Т		CFM @ .6		- °F
All S/A runs 5"Ø unless not								•			,-													-
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 (f/min) COOLING VELOCITY (fRILSIZE TRUNK	1 MBR 1.08 28 1.88 60 0.17 43 130 173 0.1 5 206 441 3X10 A	2 ENS 1.92 51 2.63 85 0.16 48 160 208 0.08 <b>6</b> 260 433 4X10 A		4 BED-2 2.40 63 2.88 93 0.16 37 180 217 0.07 <b>6</b> 321 474 4X10 A	5 BED-3 1.23 32 1.82 59 0.17 42 150 192 0.09 5 235 433 3X10 B	6 BED-3 1.23 32 1.82 59 0.17 40 190 230 0.07 5 235 433 3X10 B	7 BATH 0.53 14 1.29 41 0.17 18 180 198 0.09 4 161 470 3X10 B	8 BED-4 1.56 41 1.77 57 0.17 55 140 195 0.09 5 301 419 3X10 B		10 MBR 1.08 28 1.88 60 0.17 40 170 210 0.08 5 206 441 3X10 A		12 FORM 2.80 74 1.79 58 0.17 23 120 143 0.12 5 543 426 3X10 B		14 KT/FM 2.64 69 3.45 111 0.15 34 120 154 0.1 <b>6</b> 352 566 4X10 A	15 KT/FM 2.64 69 3.45 111 0.15 21 120 141 0.11 <b>6</b> 352 566 4X10 A		17 BED-4 1.56 41 1.77 57 0.17 50 130 180 0.1 5 301 419 3X10 B			20 FOY 4.67 123 2.42 78 0.15 34 100 134 0.11 <b>6</b> 627 398 4X10 B	21 BAS 3.60 95 0.22 7 0.16 32 120 152 0.11 5 698 51 3X10 A	22 BAS 3.60 95 0.22 7 0.16 130 146 0.11 5 698 51 3X10 A	23 BAS 3.60 95 0.22 7 0.16 31 110 141 0.11 5 698 51 3X10 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 TOTAL EFFECTIVE LENGTH ADJUSTED PRESSURE ROUND DUCT SIZE HEATING VELOCITY (f/min) COOLING VELOCITY (f/min) OUTLET GRILL SIZE TRUNK																								
SUPPLY AIR TRUNK SIZE																	RETURN A	IR TRUN	K SIZE					
TRUNK A TRUNK B TRUNK C TRUNK D TRUNK D TRUNK F	TRUNK CFM 498 452 0 0 0	STATIC PRESS. 0.07 0.07 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 11.2 10.8 0 0 0	14 14 14 0 0 0 0	x x x x x	8 8 8 8 8	VELOCITY (ft/min) 640 581 0 0 0		TRUNK G TRUNK H TRUNK I TRUNK J TRUNK K TRUNK L	TRUNK	STATIC PRESS. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ROUND DUCT 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	8 8 8 8 8	VELOCITY (ft/min) 0 0 0 0 0	TRUNK O TRUNK P TRUNK Q TRUNK R TRUNK S TRUNK T TRUNK U TRUNK V	TRUNK CFM 0 0 0 0 0 0 0 0 0	STATIC PRESS. 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0	ROUND DUCT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RECT DUCT 0 0 0 0 0 0 0	X X X X X	8 8 8 8 8 8	VELOCIT (ft/min) 0 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	1 0 155 0.15 52 195 247 0.06 7.5 8	2 0 155 0.15 55 200 255 0.06 7.5 8	3 0 120 0.15 37 165 202 0.07 6.6 8	4 0 380 0.15 36 165 201 0.07 10.1 8	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 1 14.80 0	0 0 0.15 1 0 14.80 0	0 0 0.15 1 0 1 14.80 0	140 0.15 14 145 159 0.09 6.5 8	TRUNK V TRUNK W TRUNK X TRUNK Y TRUNK Z DROP	0 950 690 0 950	0.06 0.06 0.06 0.06 0.06 0.06	0 0 14.8 13.1 0 14.8	0 0 26 20 0 24	x x x x x	8 8 8 8 8 10	0 0 658 621 0 570

0 X 0

6.5 8 X 14

X 0

Χ

0

Χ

X 0

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X 0

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0 X 0

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Χ

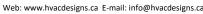
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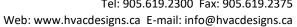


TYPE: SD-6 C SITE NAME: ENCORE LO# 760

76093 CNR - OPT. 4 BED

#### RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL \	/ENTILATION CAPACITY	•	9.32.3.5.
a)		Total Ventilation Ca	pacity	148.4	cfm
b) Positive venting induced draft (except fireplaces)		Less Principal Venti	il. Capacity	120	cfm
c) Natural draft, B-vent or induced draft gas fireplace		Required Suppleme	ental Capacity	28.4	cfm
d) Solid Fuel (including fireplaces)					
e) No Combustion Appliances		PRINCIPAL EXHAL	JST FAN CAPACITY		
		Model:	VANEE 60H-V+	Location:	BSMT
HEATING SYSTEM		120.0	cfm 3.0	sones	✓ HVI Approved
Forced Air Non Forced Air			JST HEAT LOSS CALCU		% LOSS
		CFM 120.0 CFM	ΔT °F X 74 F	X 1.08	% LOSS X 0.25
Electric Space Heat		SUPPLEMENTAL F	FANS	NUTONE	
		Location	Model	cfm	HVI Sones
HOUSE TYPE	9.32.1(2)	ENS	QTXEN050C	50	√ 0.3
		BATH	QTXEN050C	50	✓ 0.3
✓ I Type a) or b) appliance only, no solid fuel		PWD	QTXEN050C	50	✓ 0.3
II Type I except with solid fuel (including fireplaces	s)	HEAT RECOVERY			9.32.3.11.
III Any Type c) appliance		Model:	VANEE 60H-V+		
IV Type I, or II with electric space heat		139	cfm high	50	cfm low
Other: Type I, II or IV no forced air		75	% Sensible Efficie @ 32 deg F ( 0 deg		✓ HVI Approved
			<u> </u>	, -,	
		LOCATION OF INS	TALLATION		
SYSTEM DESIGN OPTIONS	O.N.H.W.P.				
1 Exhaust only/Forced Air System		Lot:		Concession	
2 HRV with Ducting/Forced Air System		Township		Plan:	
		Address			
→ 3 HRV Simplified/connected to forced air system		Roll #		Building Per	mit#
4 HRV with Ducting/non forced air system		BUILDER:	GOLD PARK HO!	MES	
Part 6 Design		Name:			
TOTAL VENTILATION CAPACITY	9.32.3.3(1)	Address:			
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:			
Other Bedrooms 3 @ 10.6 cfm 31.8	cfm	Telephone #:		Fax #:	
Kitchen & Bathrooms 4 @ 10.6 cfm 42.4	cfm	INSTALLING CONT	TRACTOR		
Other Rooms 3 @ 10.6 cfm 31.8	cfm	Name:			
Table 9.32.3.A. TOTAL 148.4	cfm	Address:			
101/L 110.11	0111	City:			
PRINCIPAL VENTILATION CAPACITY REQUIRED	9.32.3.4.(1)	Oity.			
1 Bedroom 31.8	cfm	Telephone #:		Fax #:	
		DESIGNER CERTIF		- harmater's 1	
2 Bedroom 47.7	cfm	in accordance with t	this ventilation system hat the Ontario Building Code		
3 Bedroom 63.6	cfm	Name:	HVAC Designs L	. 0	p.
4 Bedroom 79.5	cfm	Signature:	/	Mehan O'Kounh	e.
5 Bedroom 95.4	cfm	HRAI#		001820	
TOTAL 79.5 cfm I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUAI	LIFIED IN THE ADI	Date:	I "OTHER DESIGNER" LINDER D	September-17	UII DING CODE
	ITIL AFI	AG AN			





#### **HEAT LOSS AND GAIN SUMMARY SHEET**

		- IIILAI	LOSS AILD GAIL	3011111/ART SHEET	
MODEL:	SD-6 C		CNR - OPT. 4 BED	<b>BUILDER:</b> GOLD PARK HOMES	
SFQT:	2032	LO#	76093	SITE: ENCORE	
DESIGN A	ASSUMPTIONS				
HEATING			°F	COOLING	°F
OUTDOO	R DESIGN TEMP.		-2	OUTDOOR DESIGN TEMP.	86
INDOOR [	DESIGN TEMP.		72	INDOOR DESIGN TEMP. (MAX 75°F)	72
BUILDING	S DATA				
ATTACHM	ΛΕΝΤ:		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 TIGHT	TNESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Υ
WIND EX	POSURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE V	OLUME (ft³):		26116.5	ASSUMED (Y/N):	Υ
INTERNAL	L 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:	6.5 ft
LENGTH:	48.0 ft	WIDTH:	26.0 ft	EXPOSED PERIMETER:	123.0 ft

2012 OBC - COMPLIANCE PACKAGE		
	Compliance	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	29.8
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	0.96	-
HRV Minimum Efficiency	75%	-
Domestic Hot Water Heater Minimum EF	0.8	

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE





### **Residential Foundation Thermal Load Calculator**

Supplemental tool for CAN/CSA-F280

Wea	ther Sta	tion Description
Province: Region:	Ontario Brampto	on
	Site D	escription
Soil Conductivity:	Normal	conductivity: dry dand, loam, clay
Water Table:	Normal (	(7-10 m, 23-33 ft)
Fo	undatio	on Dimensions
Floor Length (m):	14.6	
Floor Width (m):	7.9	
Exposed Perimeter (m):	37.5	
Wall Height (m):	2.6	
Depth Below Grade (m):	2.0	Insulation Configuration
Window Area (m²):	1.3	
Door Area (m²):	1.9	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Desig	n Months
Heating Month	1	
	Founda	ation Loads
Heating Load (Watts):		1083

**TYPE:** SD-6 C **LO#** 76093

CNR - OPT. 4 BED



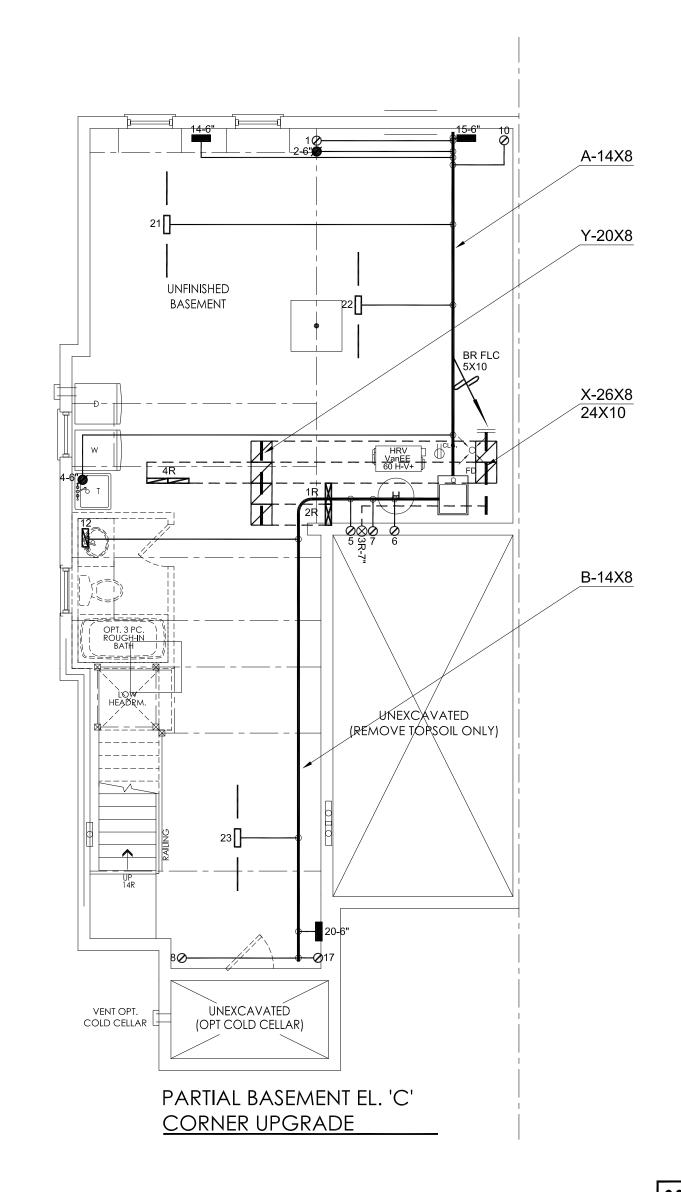
## **Air Infiltration Residential Load Calculator**

Supplemental tool for CAN/CSA-F280

Weather Stati	on Des	cript	ion		
Province:	Onta	rio			
Region:	Bram	pton			
Weather Station Location:	Open	flat te	rrain, ${\it g}$	grass	
Anemometer height (m):	10				
Local SI	nieldin	g			
Building Site:	Subu	rban, f	orest		
Walls:	Heav	У			
Flue:	Heav	У			
Highest Ceiling Height (m):	6.10				
Building Co	nfigur	ation			
Туре:	Semi				
Number of Stories:	Two				
Foundation:	Full				
House Volume (m³):	739.5	<u>,</u>			
Air Leakage	/Venti	latior	1		
Air Tightness Type:	Prese	nt (19	61-) (3	.57 ACH	<del>1</del> )
Custom BDT Data:	ELA (	🤋 10 Pa	э.		985.8 cm <sup>2</sup>
	3.57				ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	otal Sup	ply		Total Exhaust
		56.6			56.6
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infile	ration	Rate	es .		
Heating Air Leakage Rate (ACH/H)	:	C	).31	5	
Cooling Air Leakage Rate (ACH/H)		C	).10	8	

**TYPE:** SD-6 C **LO#** 76093

CNR - OPT. 4 BED



I MICHAEL O'ROURKE HAVE REVIEW
AND TAKE RESPONSIBILITY FOR INDESIGN WORK AND AM QUALIFIED
UNDER DIVISION C, 3.2.5 OF THE
BUILDING CODE.

Michael O'Rourke, O'De Jourke,
Michael O'Rourke, O'De 10600

CSA-F280-12 PACKAGE A1

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

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Cllent

#### **GOLD PARK HOMES**

Project Name

ENCORE BRAMPTON, ONTARIO

CORNER UPG OPT. 4 BED SD-6 C

2032 sqft

# HVA DESIGNS LTD.

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

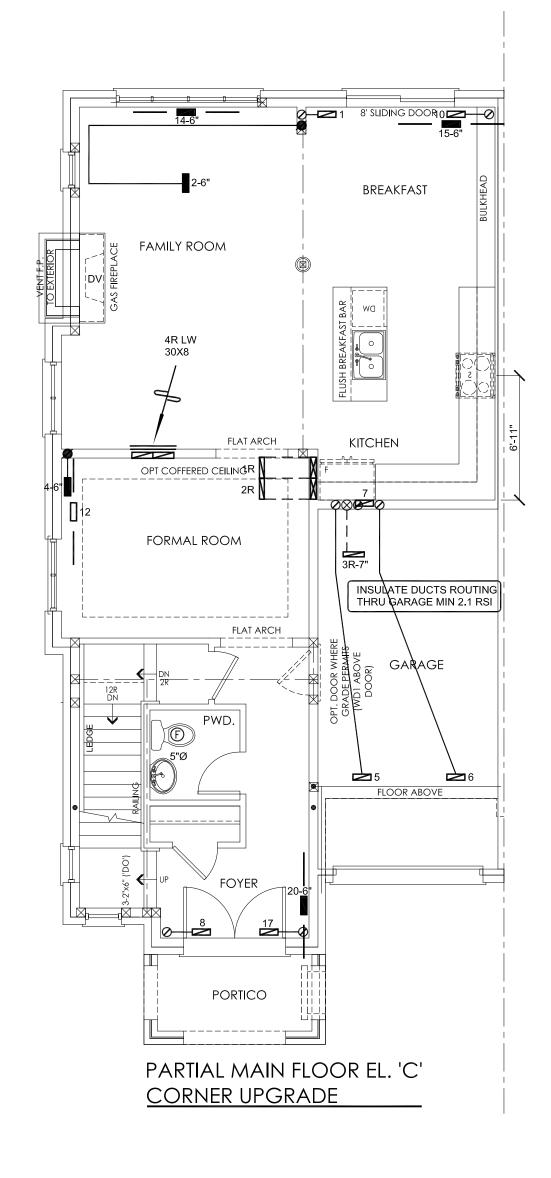
	HEAT LOSS 38536	BTU/H	# OF RUNS	S/A	R/A	FANS	SI
	UNIT DATA		3RD FLOOR				•
	LENNOX		2ND FLOOR	9	3	2	
	MODEL EL296UH045XE36	6B	1ST FLOOR	4	1	2	•
	INPUT 44	MBTU/H	BASEMENT	3	1	0	Da
	оитрит 43	мвти/н	ALL S/A DIFFU				So
e	COOLING 2.5	TONS	ON LAYOUT. A	LL S/A	RUN	S 5"Ø	
_	2.5		UNLESS NOTE	ח טוו	1EKW	ISE	١.

ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A

cfm @ 0.6" w.c.

950

IS	Sheet Tit	Ð	
_	E	BASEMENT	
		HEATING	
		LAYOUT	
	Date	SEPT/2017	
	Scale	3/16" = 1'-0"	
Ø		BCIN# 19669	
	LÖ	# 76093	



I MICHAEL O'ROURKE HAVE REVIEW
AND TAKE RESPONSIBILITY FOR TH
DESIGN WORK AND AM QUALIFIED
UNDER DIVISION C, 3.2.5 OF THE
BUILDING CODE.

MACHON OF MUNICE BUILDING CODE
Michael O'Rourke, BUND 19669

PACKAGE A1

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

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Cllent

#### **GOLD PARK HOMES**

Project Name

ENCORE BRAMPTON, ONTARIO CORNER UPG

OPT. 4 BED SD-6 C 2032 sqft

# HVA DESIGNS LTD.

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

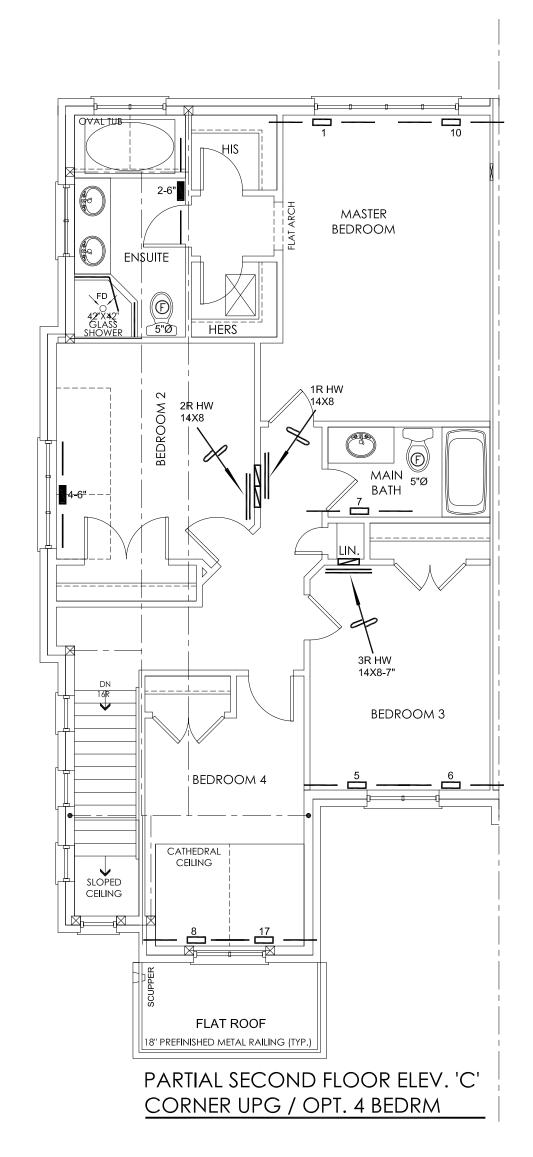
Specializing in Residential Mechanical Design Services

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

Date SEPT/2017
Scale 3/16" = 1'-0"

BCIN# 19669 LO# 76093



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

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#### **GOLD PARK HOMES**

Project Name

**ENCORE** BRAMPTON, ONTARIO

**CORNER UPG** OPT. 4 BED SD-6 C

2032 sqft

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SECOND FLOOR

**HEATING LAYOUT** 

SEPT/2017 Date 3/16" = 1'-0"

LO#

BCIN# 19669 76093