

Schedule 1: Designer Information

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

A. Project Information Building number, street name	Consultation of the Consul				
				Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other de	escription		l
NNINFILL					
B. Individual who reviews and t	akes responsibility t	for design activities		487	
Name		Firm			
MICHAEL O'ROURKE Street address		HVAC DESIGNS LTD			
375 FINLEY AVE			Unit no.		Lot/con.
Municipality	Postal code	Province	202		N/A
AJAX	L1S 2E2	ONTARIO	E-mail info@hvacd	looimma	
Telephone number	Fax number	0.117.11.10	Cell number		
(905) 619-2300	(905) 619-2375		()		
C. Design activities undertaken ☐ House ☐ Small Buildings ☐ Large Buildings ☐ Complex Buildings	⊠ HVA0 □ Buildin □ Detec	ied in Section B. [Bui C – House ng Services ition, Lighting and Po	ower C	able 3.5.2.1 OF D Building Struct Plumbing – H Plumbing – Al On-site Sewag	tural ouse I Buildings
Description of designer's work		Model:	RL-6C		
EAT LOSS / GAIN CALCULATIONS UCT SIZING ESIDENTIAL MECHANICAL VENTIL ESIDENTIAL SYSTEM DESIGN per	ATION DESIGN SUMN	AADV			
EAT LOSS / GAIN CALCULATIONS UCT SIZING ESIDENTIAL MECHANICAL VENTIL ESIDENTIAL SYSTEM DESIGN per	ATION DESIGN SUMN CSA-F280-12	AADV	RL-6C : ALCONA		
IEAT LOSS / GAIN CALCULATIONS DUCT SIZING ESIDENTIAL MECHANICAL VENTIL ESIDENTIAL SYSTEM DESIGN per Declaration of Designer	ATION DESIGN SUMN CSA-F280-12	AADV	RL-6C : ALCONA	that (choose one as	
EAT LOSS / GAIN CALCULATIONS UCT SIZING ESIDENTIAL MECHANICAL VENTIL ESIDENTIAL SYSTEM DESIGN per . Declaration of Designer MICHAEL O'ROURK	ATION DESIGN SUMN CSA-F280-12 (print name)	MARY Project	RL-6C ALCONA declare	that (choose one as	appropriate):
EAT LOSS / GAIN CALCULATIONS UCT SIZING ESIDENTIAL MECHANICAL VENTIL ESIDENTIAL SYSTEM DESIGN per Declaration of Designer MICHAEL O'ROURK I review and take responsib Division C, of the Building C	ATION DESIGN SUMN CSA-F280-12 (print name)	MARY Project	RL-6C ALCONA declare	that (choose one as	appropriate):
IEAT LOSS / GAIN CALCULATIONS DUCT SIZING IESIDENTIAL MECHANICAL VENTIL ESIDENTIAL SYSTEM DESIGN per Declaration of Designer MICHAEL O'ROURK I review and take responsib Division C, of the Building C classes/categories.	ATION DESIGN SUMN CSA-F280-12 (E	Project on behalf of a firm registe the firm is registered, in	RL-6C ALCONA declare red under subsitie	that (choose one as ection 3.2.4.of appropriate	appropriate):
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1. 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.

^{2.} 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.

375 Finley Ave. Suite 202 Ajax, ON L1S 2E2 Tel: 905.619.2300 Fax: 905.619.2375 Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

DESIGNS LTD.

CSA-F280-12 SB-12 PACKAGE A1 83 HEAT LOSS AT °F. HEAT GAIN AT °F. 389 0 0 325 0.56 242 0 220 0 0 0 0 0 0 672 WINTER NATURAL AIR CHANGE RATE 0.439 SUMMER NATURAL AIR CHANGE RATE 0,097 259 . . . 351 0.56 947 0.20 1312 0 0 325 0.33 0.56 0.20 1838 82 0 240 325 279 LOSS 0.56 1468 LO# 97837 0.20 577 56 0 240 325 0.56 551 0.20 GFA: 2842 2141 0 240 325 BED-2 41 9 369 0.56 1813 0 0 439 1422 0 0 3212 5025 0 769 582 TYPE: RL-6C GAIN 0 311 0 0 0 0 68 0 0 0 325 0 0 0 0 0 0 183 0 0 0 0 0 0 0.33 1905 0.10 0 49 135 0 0 0 0 1581 115 4556 0 480 325 BUILDER: BAYVIEW WELLINGTON HOMES 0.33 4972 0.10 20 249 0 0 0 0 GRS.WALL AREA LOSS GAIN 15.0 40.5 23.9 40.5 99.8 2.4 0.5 0.5 1.1 FACTORS SITE NAME: ALCONA 23.3 23.3 23.3 40.8 22.0 4.9 3.9 1.4 3.0 2.8 240 ROOM USE SOUTH WEST SKYLT. EXP. WALL CLG. HT. GLAZING EAST NO ATTIC EXPOSED CLG HEAT GAIN PEOPLE NET EXPOSED WALL NET EXPOSED BSMT WALL ABOVE GR 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 GAIN** HEAT GAIN APPLIANCES/LIGHTS TOTAL HT LOSS BTU/H TOTAL HT GAIN x 1.3 BTU/H

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TOTAL COMBINED HEAT LOSS BTU/H: 53568

INDIVIDUAL BCIN: 19669

375 Finley Ave. Suite 202 Ajax, ON L15 2E2 Tel: 905.619.2300 Fax: 905.619,2375 Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

HNV/N DESIGNS UP.

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HEATING VELOCITY (fumin)
COOLING VELOCITY (fumin)
OUTLET GRILL SIZE
TRUNK



TYPE: SITE NAME: RL-6C ALCONA

LO# 97837

LO# 5103

COMBUSTION APPLIANCES	9.32.3.1(1)	SUPPLEMENTAL VENTILATION CAPACITY	
a) ✓ Direct vent (sealed combustion) only		Total Ventilation Capacity 190.8	9.32.3.5.
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 Supplemental Capacity 111.3	cfm
d) Solid Fuel (including fireplaces)			J
e) No Combustion Appliances		PRINCIPAL EXHAUST FAN CAPACITY	
		Model: VANEE V150H Location: BSM	fT
HEATING SYSTEM		79.5 cfm HVI	Approved
Forced Air Non Forced Air		PRINCIPAL EXHAUST HEAT LOSS CALCULATION CFM AT 'F FACTOR	
Electric Space Heat		CFM ΔT *F FACTOR 79.5 CFM X 83 F X 1.08 X	% LOSS 0.25
		SUPPLEMENTAL FANS BY INSTALLING CONTRACTOR	
HOUSE TYPE	0.00.4(0)		Sones
110002 111 2	9.32.1(2)		3.5
Type a) or b) appliance only, no solid fuel	1	BATH BY INSTALLING CONTRACTOR 50 ✓ ENS2 BY INSTALLING CONTRACTOR 50 ✓	3.5
		W/R2 BY INSTALLING CONTRACTOR 50 ✓	3.5
II Type I except with solid fuel (including fireplaces)			
III Any Type c) appliance	1	HEAT RECOVERY VENTILATOR	9.32.3.11.
Any 1360 of applicance	- 1	Model: VANEE V150H 150 cfm high 35	
IV Type I, or II with electric space heat			fm low
Other: Type I, II or IV no forced air		75 % Sensible Efficiency ✓ HVI @ 32 deg F (0 deg C)	Approved
		LOCATION OF INSTALLATION	
SYSTEM DESIGN OPTIONS	O.N.H.W.P.		1
1 Exhaust only/Forced Air System		Lot: Concession	
2 HRV with Ducting/Forced Air System		Township Plan:	
		Address	
		Roll # Building Permit #	
HRV with Ducting/non forced air system		BUILDER: BAYVIEW WELLINGTON HOMES	
Part 6 Design		Name:	
FOTAL VENTILATION CAPACITY		reality.	
	9.32.3.3(1)	Address:	
Basement + Master Bedroom 2 @ 21.2 cfm 42.4	cfm	City:	
Other Bedrooms3 @ 10.6 cfm31.8	cfm	Telephone #: Fax #;	
Kitchen & Bathrooms 5 @ 10.6 cfm 53	cfm	INSTALLING CONTRACTOR	
Other Rooms <u>6</u> @ 10.6 cfm <u>63.6</u>	cfm	Name:	
Table 9.32.3.A. TOTAL 190.8	cfm	Address:	
PRINCIPAL VENTILATION CAPACITY REQUIRED		City:	
TOTAL VENTILATION CAPACITY REQUIRED).32.3.4.(1)	Tolophone #	
1 Bedroom 31.8	cfm	Telephone #: Fax #:	
2 Bedroom 47.7	cfm	DESIGNER CERTIFICATION I hereby certify that this ventilation system has been designed	
3 Bedroom 63.6	cfm	in accordance with the Ontario Building Code. Name: HVAC Designs Ltd.	
4 Bedroom 79,5	cfm	Signature: Michael Office .	
5 Bedroom 95.4	cfm	/// рама Одриле. HRAI# 001820	
		Date:	$\overline{}$
I REVIEW AND TAKE RESPONIBILITY FOR THE DESIGN WORK AND AM QUALIF	FIED IN THE APPE	Date: July-22 PROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.	
MICHAEL O'ROU	IKKE		

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

900 Area (ft²) 908 908 1006 838 0 1006 838 1006 838 1006 838 1006 83.ºF	LO#: 97837	Model: BLAC	Fon	CSA F280-12 Residential Heat Loss and Heat Gain Calculations Formula Sheet (For Air Leakage / Ventiliation Calculation)	eat Loss and Heat Gai eakage / Ventiliation (n Calculations Calculation)			
Floor Height (ff) Volume (ff*) Supplementary (ff*) Supple		Volume Calcula	tion	Build	ier: BAYVIEW WELLINGT		lta T Data	Date: 20	322-07-08
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Floor Area (ft2)	(4)/+4zioH 20013	1 }	[WINTER NATURAL AIR CHAN	IGE RATE	0.439	
1006 9 990 9054	998	9	-			SUMMER NATURAL AIR CHAN	VGE RATE	0.097	
State Sta	998	10	9980	1					
Total: 35.580 R ² Second Seco	838	6	7542	7		Design 1	emperature Diffe	rence	
Total: 1006.9 m/s Summer DIDC 24 29	0	9 Total:	35 558 0 643	<u> </u>			Tout °C -24	ΔT °C 46	ΔT °F 83
$HL_{airb} = LR_{airh} \times \frac{V_{b}}{3.6} \times DTD_{h} \times 1.2$ $\frac{129.69}{2.79.69} \times \frac{V_{b}}{46^{\circ}C} \times \frac{1.2}{3.6} \times DTD_{h} \times 1.2$ $\frac{129.69}{2.13.2 \text{ Heat Loss due to Mechanical Ventilation}}{1 \times 1.08 \times (1 - E)} = \frac{6.213 \text{ Btu/h}}{2.23.3 \text{ Calculation of Air Leakage}} = \frac{6.2.6 \text{ Sensible Gain due to Air Leakage}}{6.2.7 \text{ Sensible Heat Gain due to Ventilation}}$ $HL_{vairb} = PVC \times DTD_{h} \times 1.08 \times (1 - E)$ $83.7^{\circ} \times 1.08 \times (1 - E)$ $1.08 \times (1 - E)$ 1.004 1		Total:	1006.9 m³		***************************************		29	2	6
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$ $\frac{279.69}{2.73.2 \text{ Heat Loss due to Mechanical Ventilation}} \times \frac{L}{3.6} \times DTD_h \times 1.2$ $= \frac{23239 \text{ Btu/h}}{2.33.2 \text{ Heat Loss}} = \frac{1.286 \text{ Btu/h}}{2.34.9 \text{ Btu/h}} \times \frac{9 \cdot F}{2.96.9} \times \frac{5 \cdot C}{3.6} \times \frac{1.2}{3.6} \times \frac{1.2}$	5.2.	3.1 Heat Loss due to	Air Leakage						
$HL_{airb} = LR_{airh} \times \frac{V_b}{3.6} \times DTD_h \times 1.2$ $\frac{279.69}{2.73.2 \text{ Heat Loss due to Mechanical Ventilation}}{1 \text{ Solition}} = \frac{HG_{salb}}{23239 \text{ Btu}/h} = \frac{HG_{salb}}{2.2329 \text{ Btu}/h} = \frac{HG_{salb}}{2.2329 \text{ Btu}/h} = \frac{1.23239 \text{ Btu}/h}{2.2329 \text{ Btu}/h} = \frac{1.23239 \text{ Btu}/h}{2.2323 \text{ Btu}/h} = \frac{1.23239 \text{ Btu}/h}{2.23239 \text{ Btu}/h} = \frac{1.23239 \text{ Btu}/h}{2.2323 \text{ Btu}/h} = 1.23239$						6.2.6 Sensible Gain due	to Air Leakage		
279.69 x 46 °C x 1.2 = 6811 W = 0.097 x 279.69 x 5 °C x 1.2 5.2.3.2 Heat Loss due to Mechanical Ventilation = 23239 Btu/h = 0.097 x 279.69 x 5 °C x 1.2 5.2.3.2 Heat Loss due to Mechanical Ventilation	$HL_{airb} =$: $LR_{airh} \times \frac{V_b}{3.6} \times$	$DTD_h \times 1.2$		H	$^{I}G_{salb} = LR_{airc} \times \frac{V_b}{2.7} \times DTD_c$	× 1.2		
$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $83.^{\circ}F \times 1.08 \times (1-E)$ $80.^{\circ}F \times 1.08 \times (1-E)$		× 46 °C	_ × 1.2		0.097	3.6 x 279.69 x 5°C		"	166 W
$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $83.7^{\circ} \times 1.08 \times (1-E)$ $80.7^{\circ} \times 1.08 \times (1-E)$ $1 \times 1.08 \times (1-E)$				Ш				11	567 Btu/h
$HL_{vairb} = PVC \times DTD_h \times 1.08 \times (1-E)$ $83 \text{ *F} \times 1.08 \times (1-E)$ $83 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $80 \text{ CFM} \times 9 \text{ *F} \times 1.08 \times (1-E)$ $10 \text{ All airry} = Level Factor (LF) \text{ Ventilation Heat Loss} \text{ Loss: (HL_{agcr} + HL_{bgcrlevel})} \text{ Hairby / Hilevel)}$ $10 \text{ All airry} = Level Factor (LF) \text{ Ventilation Heat Loss} \text{ Loss: (HL_{agcr})} \text{ Hairby / Hilevel)}$ $10 \text{ All airry} = \frac{1}{(8 \text{ LW}/h)} \text{ All airry} $	5.2.3.2 Не	eat Loss due to Mech	anical Ventilation			6.2.7 Sensible heat Gain d	lue to Ventilation		
83 °F x 0.25 = 1786 Btu/h 80 CFM x 9 °F x 1.08 x 0.25 0.25 x 0.25 0.25 x 0.25 0.25 0.25 0.25 0.25 0.25 0.000	$HL_{vairb} =$	$: PVC \times DTD_h \times$	$1.08 \times (1-E)$		HL_1	$_{nairb} = PVC \times DTD_h \times 1.08 \times$	(1-E)		
i for Each Room (Floor Multiplier Section)	İ			Ш] 80 CFM	9 °F ×		II	197 Btu/h
$r_{cr} + HL_{bgcr}) \div \left(HL_{agclevel} + HL_{bgclevel} \right) \}$ vel Conductive Heat Air Leakage Heat Loss Multiplier (LF x Loss: (HL _{clevel}) + HLairbv / HLlevel) 4,542 2.047 8,707 0.801 8,236 0.564 7,058 0.329 0 0.000			5.2.3.3 Calcula	ation of Air Change Heat I	Loss for Each Room (Floo	r Multiplier Section)			
Air Leakage Heat Loss Multiplier (LF x Loss: (HLclavel) Air Leakage Heat Loss Multiplier (LF x Hairbu / HLlevel) 4,542 2.047 8,707 0.801 8,236 0.564 7,058 0.329 0 0.000		HL_{ι}	$_{airr} = Level Fact$	or \times $HL_{airbv} \times \{(H.)\}$	$L_{agcr} + HL_{bgcr}$ \Rightarrow ($(HL_{agclevel} + HL_{bgclevel})$			
4,542 2.047 8,707 0.801 8,236 0.564 7,058 0.329 0 0.000		Level	Level Factor (LF)	HLairve Air Leakage + Ventilation Heat Loss (8tu/h)	Level Conductive Heat Loss: (HL _{clevel})	Air Leakage Heat Loss Multiplier (LF x HLairbv / HLlevel)			
8,736 0.801 8,236 0.564 7,058 0.329 M		-	0.4		4,542	2.047			
8,236 0.564 7,058 0.329 M		2	0.3		8,707	0.801			
7,058 0.329 M 0 0.000 BG		3	0.2	23,239	8,236	0.564			
0 0,000		4	0.1		7,058	0.329	L≥	Aichael O'Rourk	a
		5	0		0	0.000	8	CIN# 19669	1
		*HLairbv = , *For a balar	Air leakage heat loss	+ ventilation heat loss				1 /mill	1 Cha



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

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

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL:	RL-6C				
				BUILDER: BAY	VIEW WELLINGTON HOMES
SFQT:	2842	LO#	97837	SITE: ALC	ONA
DESIGN ASS	SUMPTIONS				
HEATING			°F		
	DESIGN TEMP.		•	COOLING	°F
INDOOR DES			-11	OUTDOOR DESIGN TEMP.	84
INDOON DE	SIGN TEIVIF.		72	INDOOR DESIGN TEMP. (M.	AX 75° _{F)} 75
BUILDING D	ATA			WINDOW SHGC	0.50
ATTACHMEN	NT:		ATTACHED	# OF STORIES (+BASEMENT): 4
FRONT FACE	:S:		EAST	ASSUMED (Y/N):	Υ
AIR CHANGE	S PER HOUR:		3.57	ASSUMED (Y/N):	Υ
AIR TIGHTNE	ESS CATEGORY:		AVERAGE	ASSUMED (Y/N):	Y
WIND EXPOS	SURE:		SHELTERED	ASSUMED (Y/N):	Υ
HOUSE VOLU	JME (ft³):		35558.0	ASSUMED (Y/N):	Υ
INTERNAL SH	ADING:	BLINDS	S/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIG	GHTING LOAD (Btu/h	n/ft²):	1.27	DC BRUSHLESS MOTOR (Y/N	1): Y
FOUNDATION	N CONFIGURATION		BCIN_1	DEPTH BELOW GRADE:	6.0 ft
LENGTH:	47.0 ft	WIDTH:	21.0 ft	EXPOSED PERIMETER:	92.0 ft

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

INDIVIDUAL BCIN: 19669 MICHAEL O'ROURKE







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

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

W	eather Sta	ation Description
Province:	Ontario	
Region:	Barrie	
	Site D	escription
Soil Conductivity:	Normal	conductivity: dry sand, loam, clay
Water Table:	Normal	(7-10 m, 23-33 ft)
	Foundatio	on Dimensions
Floor Length (m):	14.3	
Floor Width (m):	6.4	
Exposed Perimeter (m):	28.0	
Wall Height (m):	2.7	
Depth Below Grade (m):	1.83	Insulation Configuration
Window Area (m²):	1.1	
Door Area (m²):	0.0	
	Radi	ant Slab
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
	Design	n Months
leating Month	1	
	Founda	tion Loads
Heating Load (Watts):		930

TYPE: RL-6C **LO#** 97837







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

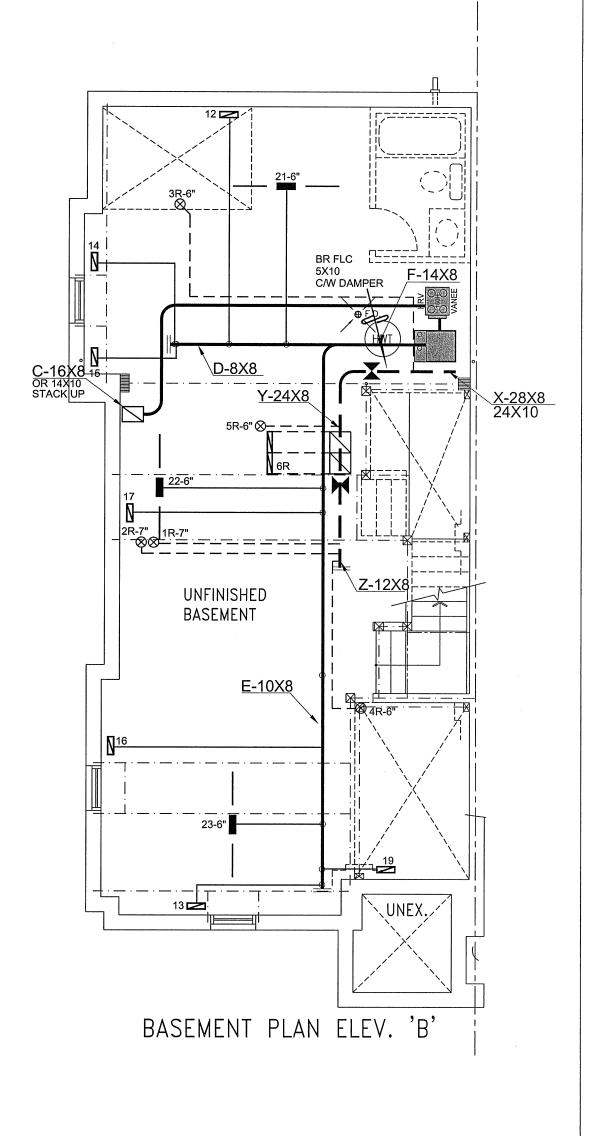
Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Stati	on De	scrip	tion		
Province:	Onta				
Region:	Barr	ie			
Weather Station Location:	Ope	n flat t	errain,	grass	
Anemometer height (m):	10		•	0	
Local St	nieldir	ng			
Building Site:		ırban, i	forest		
Walls:	Heav	•			
Flue:	Heav	′y			
Highest Ceiling Height (m):	9.45				
Building Co	nfigur	ation			
Type:	Semi			***************************************	
Number of Stories:	Thre	е			
Foundation:	Full				
House Volume (m³):	1006	.9			
Air Leakage/	Venti	latio	า		
Air Tightness Type:	Prese	nt (19	61-) (3	.57 AC	Н)
Custom BDT Data:	ELA (D 10 P	a.		1342.2 cm ²
	3.57	-			ACH @ 50 Pa
Mechanical Ventilation (L/s):	To	otal Sup	ply		Total Exhaust
		37.5			37.5
Flue	Size				
Flue #:	#1	#2	#3	#4	
Diameter (mm):	0	0	0	0	
Natural Infilt	ration	Rate	s		
Heating Air Leakage Rate (ACH/H):		0	.43	9	
Cooling Air Leakage Rate (ACH/H):		0	.09	7	

TYPE: RL-6C **LO#** 97837





I MICHAEL OROURKE IIA YE REVIEW
AND TAKE RESPONSHILITY FOR THE
DESIGN WORK AND AM QUALIFIED
BUILDING CORO
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MICHAEL OF THE BUILDING CORO
MICHAEL OF TRUTHER
MICHAEL OF

CSA-F280-12 PACKAGE A1

HVAC DESIGNS ETD.											
				HVAC LE	EGEND			3.			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.			
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.			
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	≥ ⊠	RETURN AIR STACK 2nd FLOOR	No.	Description		Date
	SUPPLY AIR BOOT ABOVE	ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISION	IS	

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD. AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESS WITHOUT EXP

BAYVIEW WELLINGTON HOMES

Project Name ALCONA INNISFIL, ONTARIO 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

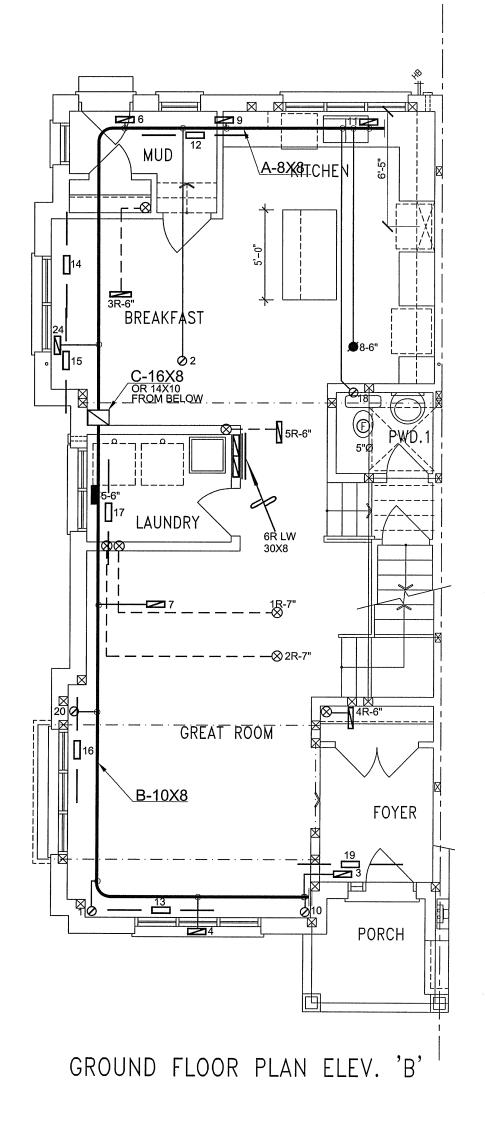
Specializing in Residential Mechanical Design Services

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.

HEAT LO	SS 53568	BTU/H	# OF RUNS	S/A	R/A	FANS	Sheet Title				
	JNIT DATA		3RD FLOOR	6	2	2	BA	SEMENT			
MAKE L	ENNOX		2ND FLOOR	8	3	2	Н	EATING			
MODEL ML196	SUH070XE3	6B	1ST FLOOR	7	1	2	L	.AYOUT			
INPUT	66	MBTU/H	BASEMENT	3	1	0	Date	JUNE/2022			
OUTPUT	63.9	MBTU/H	ALL S/A DIFFUS				Scale 3	3/16" = 1'-0"			
COOLING		TONS	UNLESS NOTE ON LAYOUT. A				В	CIN# 19669			
	2.5		UNLESS NOTE			ISE		07007			
FAN SPEED	985	cfm @ 0.6" w.c.	ON LAYOUT. U DOORS 1" min.				LO#	97837			

RL-6C



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

CSA-F280-12 PACKAGE A1

IIVAC DESIGNS LTD.											
				HVAC LE	EGEND			3.			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.	()		
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.	W		***************************************
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	E	RETURN AIR STACK 2nd FLOOR	No.	Description		Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISION	ONS	

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Client

BAYVIEW WELLINGTON HOMES

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HVA DESIGNS LTD.

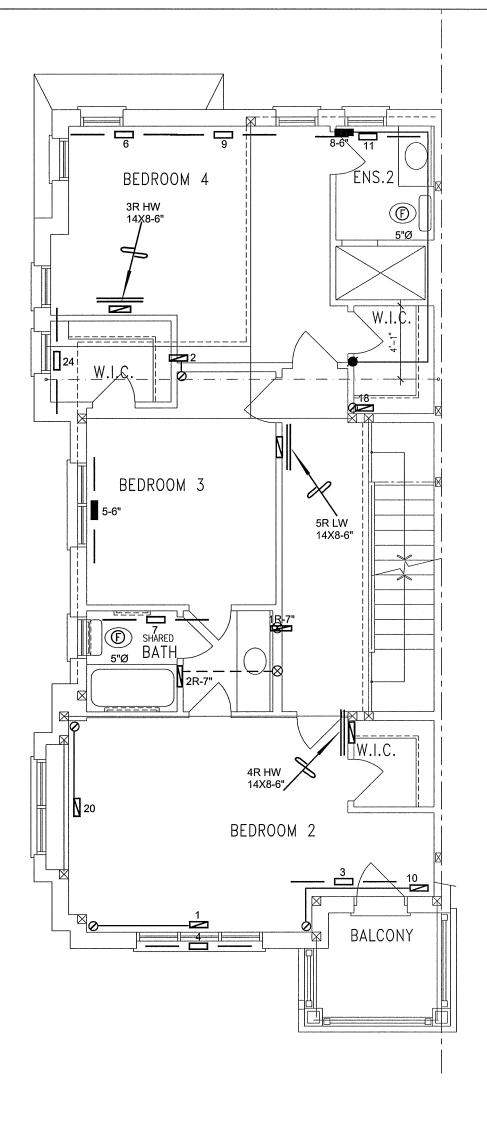
375 Finley Ave. Suite 202 - Ajax, Ontario
L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375
Email: info@hvacdesigns.ca
Web: www.hvacdesigns.ca

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.

	Sheet Title									
	FIRST FLOOR									
	HEATING									
	LAYOUT									
	Date JUNE/2022 Scale 3/16" = 1'-0" BCIN# 19669									
	LO#	97837								

RL-6C



SECOND FLOOR PLAN ELEV. 'B'

CSA-F280-12

		3.								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		-
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE	2	RETURN AIR STACK ABOVE	1.		
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	138 21	RETURN AIR STACK 2nd FLOOR	No.	Description	Date
Z	SUPPLY AIR BOOT ABOVE	ø	6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIONS	

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Specializing in Residential Mechanical Design Services Installation to comply with the latest Ontario Building Code. All supply

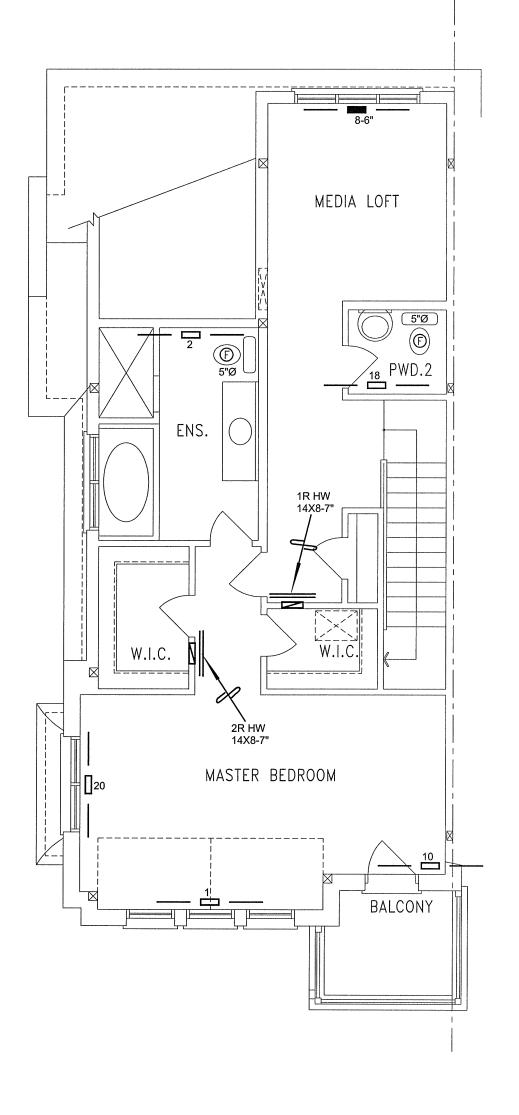
branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.

SECOND FLOOR **HEATING LAYOUT**

JUNE/2022 3/16" = 1'-0" BCIN# 19669

LO# 97837

RL-6C



THIRD FLOOR PLAN ELEV. 'B'

I MICHAEL OROURKE HAVE REVIEW
AND TAKE RESPONSIBILITY FOR THE
BUSIGN WORK AND AM QUALIFIED
UNDER DIVISION C, 3.2. OF THE
BUILDING CODE,
MICHAEL OROURE, BUNE 19669

CSA-F280-12 PACKAGE A1

TITAL DESIGNS ETD.									1		
				HVAC LE	EGEND			3.			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.			
	SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		****	
	SUPPLY AIR GRILLE 6" BOOT	0	SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE	5 83	RETURN AIR STACK 2nd FLOOR	No.	Description		Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE	X	REDUCER		REVISIO	NS	

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	Sheet Title									
	THIRD FLOOR									
	HEATING									
	LAYOUT									
	Date	JUNE/2022								
	Scale 3/16" = 1'-0"									
		BCIN# 19669								

97837

RL-6C