

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			Lot:	
TH-8	С		Lot/con.	
Bradford	Postal code	Plan number/ other description		
B. Individual who reviews and takes responsibility for designment	gn activities	1		
Name David DaCosta		Firm	gtaDesigns Inc.	
Street address 2985 Drew Roa	d, Suite 202		Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail	
Mississauga	L4T 0A4	Ontario	dave@gtades	<u>igns.ca</u>
Telephone number (905) 671-9800	Fax number	7) 494-9643	Cell number (416) 268-6	920
C. Design activities undertaken by individual identified in S		,	` ,	1020
☐ House ☑ HVAC – H	louse		☐ Building Structural	
☐ Small Buildings ☐ Building Se			☐ Plumbing – House	
☐ Large Buildings ☐ Detection,	Lighting and Po	wer	☐ Plumbing – All Buildings	s
☐ Complex Buildings ☐ Fire Protect	ction		☐ On-site Sewage System	ns
Description of designer's work Mod	del Certification	n	Project #:	PJ-00204
			Layout #:	JB-04873
Heating and Cooling Load Calculations Main	Х	Builder	Bayview Wellingto	on
Air System Design Alternate	2000	Project	Green Valley	
Residential mechanical ventilation Design Summary Area Sq ft: Residential System Design per CAN/CSA-F280-12	2008	Model	TH-8C	
Residential New Construction - Forced Air		SB-12	Package A1	
D. Declaration of Designer				
I David DaCosta (print name) I review and take responsibility for to 3.2.4 Division C of the Building Cocclasses/categories.	the design work		stered under subsection	WEST GWILLIMBURY
Individual BCIN: Firm BCIN:			BUILDING DEPARTMEN PLANS EXAMINED ONTARIO BUILDING CO DATE: 04/23/2024	
I review and take responsibility for "other designer" under subsection :				
Individual BCIN:	329	64		
Basis for exemp	tion from registi	ration:	Division C 3.2.4.1. (4)	ı
☐ The design work is exempt from the	e registration an	d qualification requirem	nents of the Building Code.	
Basis for exemp	tion from registi	ration and qualification:		
I certify that: The information contained in this schedule is true to the best of m I have submitted this application with the knowledge and consent	-			
December 12, 2023		Mare 16	and the second second	
Date		Signature of De	signer	

NOTE:

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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 qualifications under Subsections 3.2.4. and 3.2.5.of Division C.

and all other persons who are exempt from qualifications under Subsections of E.T. and of Electrical Schedule 1 does not require to be completed a holder of a license, temporary license, or a certificate of authorization, issed by the Ontario Associstion of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited licence to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.



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Heat loss and gain calcula	ation summary sheet CSA-F280-M12 Standard
These documents issued for the use of Ba	yview Wellington Layout No.
and may not be used by any other persons without authorization. Documents	s for permit and/or construction are signed in red. JB-04873
Building L	ocation
Address (Model): TH-8C	Site: Green Valley
Model:	Lot:
City and Province: Bradford	Postal code:
Calculations	based on
Dimensional information based on:	VA3 DESIGN22/May/2018
Attachment: Townhome	Front facing: East/West Assumed? Yes
No. of Levels: 3 Ventilated? Included	Air tightness: 1961-Present (ACH=3.57) Assumed? Yes
Weather location: Bradford	Wind exposure: Sheltered
HRV? LifeBreath RNC155	Internal shading: Light-translucent Occupants: 5
Sensible Eff. at -25C 71% Apparent Effect. at -0C 84%	Units: Imperial Area Sq ft: 2008
Sensible Eff. at -0C 75%	
Heating design conditions	Cooling design conditions
Outdoor temp -9.4 Indoor temp: 72 Mean soil tem; 48	Outdoor temp 86 Indoor temp: 75 Latitude: 44
Above grade walls	Below grade walls
Style A: As per OBC SB12 Package A1 R 22	Style A: As per OBC SB12 Package A1 R 20ci
Style B: Existing Walls (When Applicable) R 12	Style B:
Style C:	Style C:
Style D:	Style D:
Floors on soil	Ceilings
Style A: As per Selected OBC SB12 Package A1	Style A: As per Selected OBC SB12 Package A1 R 60
Style B:	Style B: As per Selected OBC SB12 Package A1 R 31
Exposed floors	Style C:
Style A: As per Selected OBC SB12 Package A1 R 31	Doors
Style B:	Style A: As per Selected OBC SB12 Package A1 R 4.00
Windows	Style B:
Style A: As per Selected OBC SB12 Package A1 R 3.55	Style C:
Style B: Existing Windows (When Applicable) R 1.99	Skylights
Style C:	Style A: As per Selected OBC SB12 Package A1 R 2.03
Style D:	Style B:
Attached documents: As per Shedule 1 Heat Loss/Gai	in Caculations based on CSA-F280-12 Effective R-Values
Notes: Residential New Co	onstruction - Forced Air
Calculations p	erformed by
Name: David DaCosta	Postal code: L4T 0A4
Company: gtaDesigns Inc.	Telephone: (905) 671-9800
glabesigns inc.	(000)
	Fax: (416) 268-6820



Builder:

Trunk

Bayview Wellington

Date:

Air System Design

SB-12 Package A1 December 12, 2023

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

I review and take responsibility for the design work and am qualified in the

appropriate category as an "other designer" under Division C subsection 3.2.5.

of the Building Code.

Project #

Page 3 PJ-00204

System 1 Mane Alex Green Valley TH-8C Individual BCIN: 32964 David DaCosta Lavout # JB-04873 Project: Model: A/C UNIT DATA: DESIGN LOAD SPECIFICATIONS AIR DISTRIBUTION & PRESSURE FURNACE/AIR HANDLER DATA: BOILER/WATER HEATER DATA: Level 1 Net Load 11,161 btu/h **Equipment External Static Pressure** 0.5 "w.c. Make 2.0 Ton Amana Make Туре Amana Level 2 Net Load 14,009 btu/h **Additional Equipment Pressure Drop** 0.225 "w.c. Model AMEC960603ANA Model Cond.-2.0 Level 3 Net Load 11.141 btu/h Available Design Pressure 0.275 "w.c. Input Btu/h 60000 Input Btu/h Coil 2.0 Return Branch Longest Effective Length 57600 Level 4 Net Load 0 btu/h 300 ft Output Btu/h Output Btu/h 0.50 " W C Min.Output Btu/h ΔWH 36.311 btu/h R/A Plenum Pressure 0 138 "w c Total Heat Loss E.s.p. Blower DATA: Total Heat Gain 22,594 btu/h S/A Plenum Pressure 0.14 "w.c. Water Temp deg. F. W2 Combo System HL + 10% 39,942 Btuh. Heating Air Flow Proportioning Factor 0.0256 cfm/btuh AFUE Blower Speed Selected: ECM 96% **Blower Type** Cooling Air Flow Proportioning Factor **Building Volume Vb** 22894 ft³ (Brushless DC OBC 12.3.1.5.(2)) 0.0411 cfm/btuh Aux. Heat Ventilation Load 1.118 Btuh. R/A Temp SB-12 Package Package A1 Heating Check 929 cfm Cooling Check 929 cfm 70 dea. F. Ventilation PVC 79.5 cfm S/A Temp 127 deg. F. Supply Branch and Grill Sizing Diffuser loss Temp. Rise>>> 57 deg. F. Cooling Air Flow Rate 0.01 "w.c. Selected cfm> 929 cfm 929 cfm Level 1 Level 2 S/A Outlet No. 2 5 6 10 11 KIT Room Use BASE BASE BASE BASE KIT FAM FOY LUAN PWD MUD Btu/Outlet 2790 2790 2790 2790 2009 2009 2487 2985 2782 430 1306 **Heating Airflow Rate CFM** 71 71 71 71 51 51 64 76 71 11 33 Cooling Airflow Rate CFM 118 118 121 83 6 114 3 8 **Duct Design Pressure** 0.13 **Actual Duct Length** 23 15 23 24 22 13 28 21 21 **Equivalent Length** 100 90 120 110 70 70 70 70 70 70 70 70 70 70 70 90 100 110 100 140 90 70 70 70 70 70 70 70 Total Effective Length 123 105 126 133 70 70 70 70 70 70 70 70 70 94 112 108 123 128 161 111 70 70 70 70 70 70 70 70 Adjusted Pressure 0.11 0.12 0.10 0.10 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.14 0.12 0.12 0.11 0.10 0.08 0.12 0.19 0.19 0.19 0.19 0.19 0.19 0.19 **Duct Size Round** 5 6 **Outlet Size** 3x10 3x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 4x10 3x10 3x10 3x10 3x10 4x10 Trunk В D Level 3 Level 4 S/A Outlet No. 12 13 17 18 14 15 16 Room Use MAST MAST RFD 4 **RATH** BFD 3 BFD 2 FNS Btu/Outlet 1545 1545 1494 1280 2199 2266 812 **Heating Airflow Rate CFM** 40 40 38 33 58 21 Cooling Airflow Rate CFM 55 57 46 21 55 42 66 **Duct Design Pressure** 0.13 **Actual Duct Length** 36 25 28 45 45 **Equivalent Length** 120 100 130 120 140 150 110 70 155 70 70 70 70 70 70 Total Effective Length 156 125 144 148 174 195 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 Adjusted Pressure 0.08 0.10 0.09 0.09 0.07 0.07 0.08 0.19 **Duct Size Round** 5 6 6 Outlet Size 4x10 4x10 3x10 3x10 3x10 3x10 3x10 4x10 Trunk R D D Return Branch And Grill Sizing Grill Pressure Loss 0.02 "w.c **Return Trunk Duct Sizing** Supply Trunk Duct Sizing R/A Inlet No. CFM 1R 2R 3R 4R 5R 6R 7R 8R 9R 10R 11R Trunk CFM Press. Round Rect. Size Trunk Press. Round Rect. Size Inlet Air Volume CFM 140 474 105 105 105 **Duct Design Pressure** 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 929 0.06 15.0 24x10 409 0.08 10.5 12x8 10x10 Drop 23 51 824 214 n n8 8 5 5 30 z 0.06 14 5 R RYR 107 **Actual Duct Length** 46 24v8 18y10 **Equivalent Length** 110 160 155 180 140 50 50 50 50 50 50 Υ 614 0.06 13.0 18x8 14x10 c 520 0.07 12.0 16x8 12x10 50 50 Total Effective Length 115 183 206 210 186 50 50 50 50 Х 0.07 9.5 10x8 127 w Adjusted Pressure 0.10 0.06 0.06 0.06 0.06 0.24 0.24 0.24 0.24 0.24 0.24 Ε Duct Size Round 6.0 120 6.0 6.0 6.0 ν F Inlet Size FLC G 8 U Inlet Size 30 14 s EVIEWE R

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Heatloss/Gain Calculations CSA-F280-12

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643

e-mail dave@gtadesigns.ca

	Builder: Bayview	Wellington	Date:	December 12, 2023			Weather Data	Bradford 44	-9.4 86 22	48.2	Page 4
2012 OBC	Project: Gree	en Valley	Model:	TH-8C		System 1	Heat Loss ^T 81.4	deg. F Ht gain ^T	11 deg. F	GTA: 2008	Project # PJ-00204 Layout # JB-04873
Level 1		BASE									
Run ft. exposed wall A		106 A	Α	Α	Α	Α	A	Α Α	A	Α	Α
Run ft. exposed wall B		В	В	В	В	В		В В	В	В	В
Ceiling height		3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG	3.5 AG 3.5 A			3.5 AG	3.5 AG
Floor area		824 Area	Area	Area	Area	Area		Area Are		Area	Area
Exposed Ceilings A		A	A	A	A	A		A A	A A	A	A
Exposed Ceilings B		В	В	В	В	В		B B	B	В	В
Exposed Ceilings B Exposed Floors		Fir	Fir	Flr	Fir	Fir		Fir Fir	Fir	Flr	Flr
Gross Exp Wall A		371	FII	FII	ГII	FII	rii i	rii rii	FII	FII	ru
Gross Exp Wall B		3/1									
	R-Values Loss Gain	Loss Gair	in Loss	Gain Loss Gain	Loss Gain	Loss Gain	Loss Gain I	Loss Gain Los	s Gain Loss	Gain Loss	Gain Loss Gain
North Shaded		0.91	III LUSS	Gaiii Loss Gaiii	LUSS Gain	LUSS Gain	Loss Gaiii	LOSS Gaiii LOS	S Gaiii Loss	Gaiii Loss	Gaiii Loss Gaiii
			164								
East/West South		7.35 6 138 0.89	164								
		8.32									
WOB Windows											
Skylight		8.23	50								
Doors		2.75 21 427	58								
Net exposed walls A			179								
Net exposed walls B		0.76									
Exposed Ceilings A		0.64									
Exposed Ceilings B		1.66									
Exposed Floors		0.17									
	On Grade () or Abo	4911									
Conductive Heat Loss		5476									
Heat Gain			401								
Leakage Heat Loss/Gain		0311 5431	12								
Case 1		0.08									
entilation Case 2		1.88									
Case 3		0.08 254	33								
Heat Gain People		239									
Appliances Loads		3311									
Duct and Pipe loss		10%									
el 1 HL Total 11,161	Total HL for per ro										
el 1 HG Total 580	Total HG per room x	X 1.5	580								
Lovel 2		VIT	EAM	FOV	LHAN	DWD	MUD				
Level 2		KIT	FAM	FOY	LUAN 25 A	PWD	MUD		^	^	٨
Run ft. exposed wall A		29 A	16 A	19 A	25 A	6 A	11 A	A A	A	A	A
Run ft. exposed wall A Run ft. exposed wall B		29 A B	16 A B	19 A B	25 A B	6 A B	11 A	В В	В	В	В
Run ft. exposed wall A Run ft. exposed wall B Ceiling height		29 A B 10.0	16 A B 10.0	19 A B 11.0	25 A B 11.0	6 A B 11.0	11 A B I	B B	B 10.0	B 10.0	B 10.0
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area		29 A B 10.0 201 Area	16 A B 10.0 341 Area	19 A B 11.0 108 Area	25 A B 11.0 64 Area	6 A B 11.0 28 Area	11 A B I 12.0 10.0 71 Area	B B 10.0 Area Are	B 10.0 a Area	B 10.0 Area	B 10.0 Area
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A		29 A B 10.0 201 Area A	16 A B 10.0 341 Area 5 A	19 A B 11.0 108 Area A	25 A B 11.0 64 Area A	6 A B 11.0 28 Area A	11 A B I B 12.0 10.0 71 Area A	B B 10.0 Area Are A	B 10.0 a Area A	B 10.0 Area A	B 10.0 Area A
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B		29 A B 10.0 201 Area A B	16 A B 10.0 341 Area 5 A B	19 A B 11.0 108 Area A B	25 A B 11.0 64 Area A B	6 A B 11.0 28 Area A B	11 A B I 12.0 10.0 71 Area A B I	B B 10.0 Area Are A A B B	B 10.0 a Area A B	B 10.0 Area A B	B 10.0 Area A B
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors		29 A B 10.0 201 Area A B Fir	16 A B 10.0 341 Area 5 A B Fir	19 A B 11.0 108 Area A B Fir	25 A B 11.0 64 Area A B FIr	6 A B 11.0 28 Area A B FIr	11 A B I I I I I I I I I I I I I I I I I I	B B 10.0 Area Are A	B 10.0 a Area A	B 10.0 Area A	B 10.0 Area A
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A		29 A B 10.0 201 Area A B	16 A B 10.0 341 Area 5 A B	19 A B 11.0 108 Area A B	25 A B 11.0 64 Area A B	6 A B 11.0 28 Area A B	11 A B I 12.0 10.0 71 Area A B I	B B 10.0 Area Are A A B B	B 10.0 a Area A B	B 10.0 Area A B	B 10.0 Area A B
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B	R.Value nes Gain	29 A B 10.0 201 Area A B Fir 290	16 A B 10.0 341 Area 5 A B Fir 160	19 A B 11.0 108 Area A B Fir 209	25 A B 11.0 64 Area A B Fir 275	6 A B 11.0 28 Area A B FIr	11 A B 1 12.0 10.0 71 Area A B I Fir 132	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components		29 A B 10.0 201 Area A B Fir 290	16 A B 10.0 341 Area 5 A B Fir 160	19 A B 11.0 108 Area A B Fir	25 A B 11.0 64 Area A B FIr	6 A B 11.0 28 Area A B FIr	11 A B 1 12.0 10.0 71 Area A B I Fir 132	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B	B 10.0 Area A B	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded	3.55 22.93 10	29 A B 10.0 201 Area A B Fir 290	16 A B 10.0 341 Area 5 A B Fir 160	19 A	25 A B 11.0 64 Area A B Fir 275 Loss Gain	6 A B 11.0 28 Area A B Fir 66	11 A B 1 12.0 10.0 71 Area A B I Fir 132	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components I North Shaded East/West	3.55 22.93 10 3.55 22.93 2	29 A B 10.0 201 Area A B Fir 290 Loss Gain 7.735 28 642	16 A B 10.0 341 Area 5 A B Fir 160 in Loss	19 A B 11.0 108 Area A B Fir 209	25 A B 11.0 64 Area A B FIr 275 Loss Gain	6 A B 11.0 28 Area A B FIr 66 Loss Gain	11 A B 1 12.0 10.0 71 Area A B I Fir 132	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2	29 A B 10.0 201 Area A B Fir 290 Loss Gain 17.35 28 642 10.89 58 1330 1	16 A B 10.0 341 Area 5 A B Fir 160	19 A	25 A B 11.0 64 Area A B Fir 275 Loss Gain	6 A B 11.0 28 Area A B FIr 66 Loss Gain	11 A B 1 12.0 10.0 71 Area A B I Fir 132	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components I North Shaded East/West South Existing Windows	3.55 22.93 10 3.55 22.93 2 3.55 22.93 20 1.99 40.90 22	29 A B 10.0 201 Area A B Fir 290 Loss Gair 17.35 28 642 10.89 58 1330 1	16 A B 10.0 341 Area 5 A B Fir 160 in Loss	19 A	25 A B 11.0 64 Area A B FIr 275 Loss Gain	6 A B 11.0 28 Area A B FIr 66 Loss Gain	11 A B 1 12.0 10.0 71 Area A B I Fir 132	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Celling height Floor area Exposed Cellings A Exposed Cellings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight	3.55 22.93 10 3.55 22.93 20 3.55 22.93 20 1.99 40.90 20 2.03 40.10 88	29 A B 10.0 201 Area A B Fir 290 Loss Gain 7.735 28 642 0.89 58 1330 1 182.215	16 A B 10.0 341 Area 5 A B Fir 160 in Loss	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B FIr 66 Loss Gain	11 A B 12.0 10.0 71 Area A B FIr 132 Loss Gain	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors	3.55 22.93 11 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 3	29 A B 10.0 201 Area A B Fir 290 Loss Gain 17.35 28 642 10.89 58 1330 1 12.15 12.275	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components I North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 40	29 A B 10.0 201 Area A B Fir 290 Loss Gair 0.91 17.35 28 642 0.89 58 1330 1 18.23 1.823 2.75 0.65 204 975	16 A B 10.0 341 Area 5 A B Fir 160 in Loss	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls B	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 1 17.03 4.78 8.50 9.58	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 7.735 28 642 0.89 58 1330 1 12.15 18.23 2.75 0.65 204 975	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330 132 102 488	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls B Exposed Ceilings A	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 17.03 4.78 8.50 9.58 59.22 1.37	29 A B 10.0 201 Area A B Fir 290 Loss Gain 17.35 28 642 10.89 58 1330 1 12.15 2.75 0.65 204 975 1.29 0.64	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed walls A Exposed Ceilings A Exposed Ceilings A	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 1 17.03 4.78 8.50 9.58 5 59.22 1.37 (22.86 3.56)	29 A B 10.0 201 Area A B Fir 290 Loss Gair 0.91 17.35 28 642 10.89 58 1330 1 18.23 2.75 0.65 204 975 1.29 0.64	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330 132 102 488	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls B Exposed Ceilings A Exposed Ceilings B Exposed Floors	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 1.99 40.90 2 1.90 40.10 8 4.00 20.35 17.03 4.78 6 8.50 9.58 59.22 1.37 22.86 3.56	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 7.735 28 642 0.89 58 1330 1 1.215 8.23 2.75 0.65 2.04 975 1.29 0.64 0.17	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330 132 102 488	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed walls B Exposed Ceilings A Exposed Ceilings A Exposed Floors Exposed Floors Indation Conductive Heatloss	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 1 17.03 4.78 8.50 9.58 5 59.22 1.37 (22.86 3.56)	29 A B 10.0 201 Area A B Fir 290 Loss Gair 0.91 17.35 28 642 10.89 58 1330 1 18.23 1.215 1.29 0.65 1.29 0.64 1.66 0.17	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330 132 102 488 5 7	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 66 140 669 9 3	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 235 1123 15	6 A B 11.0 28 Area A B Fir 66 Loss Gain	11 A B 12.0 10.0 71 Area A B I I I I I I I I I I I I I I I I I I	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components [North Shaded East/West South Existing Windows Skylight Doors Net exposed walls B Exposed Ceilings B Exposed Ceilings B Exposed Floors Indiation Conductive Heatloss	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 1.99 40.90 2 1.90 40.10 8 4.00 20.35 17.03 4.78 6 8.50 9.58 59.22 1.37 22.86 3.56	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 17.35 28 642 10.89 58 1330 1 18.23 2.75 204 975 1.29 0.64 1.66 0.17	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 132 102 488 5 7	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9 3	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 6 00 235 1123 15	6 A B 11.0 28 Area A B Fir 66 Loss Gain 52 66 315 43	11 A B 12.0 10.0 71 Area A B I I I I I I I I I I I I I I I I I I	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Celling height Floor area Exposed Cellings A Exposed Cellings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Net exposed walls B Exposed Cellings A Exposed Cellings A Exposed Floors Indation Conductive Heat Coss Heat Loss Heat Gain	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8i 4.00 20.35 17.03 4.78 6 8.50 9.58 59.22 1.37 6 22.86 3.56 29.80 2.73 6 0 On Grade () or Abo x	29 A B 10.0 201 Area A B Fir 290 Loss Gain 1.7.35 28 642 1.0.89 58 1330 1 1.2.15 1.2.	16 A B 10.0 341 Area 5 A B Fir 160 In Loss 766 58 1330 1211 132 102 488 5 7	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9 3 2189	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 12 275 25 66 235 1123 15	6 A B 11.0 28 Area A B Fir 66 Loss Gain 12 66 315 43	11 A B 12.0 10.0 71 Area A B I I I I I I I I I I I I I I I I I I	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
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Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components I North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls B Exposed Ceilings B Exposed Ceilings B Exposed Floors Indation Conductive Heatloss I Conductive Heat Loss Heat Gain Leakage Heat Loss/Gain	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 1 17.03 4.78 8.50 9.58 5 59.22 1.37 22.86 3.56 29.80 2.73 (0 Or Grade () or Abo x	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 7.735 28 642 0.89 58 1330 1 1.8623 2.75 0.665 1.29 0.644 1.666 0.17 4 2947 2947 23311 0.08	16 A B 10.0 341 Area 5 A B Fir 160 In Loss 766 58 1330 1211 132 102 488 5 7	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9 3 2189	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 12 275 25 66 235 1123 15	6 A B 11.0 28 Area A B Fir 66 Loss Gain 12 66 315 43	11 A B 12.0 10.0 71 Area A B Fir 132 Loss Gain 21 427 58 111 531 72 958 129	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Ceiling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls B Exposed Ceilings B Exposed Ceilings B Exposed Floors Indation Conductive Heat Coss Heat Casin Case 2	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8i 4.00 20.35 17.03 4.78 6 8.50 9.58 59.22 1.37 6 22.86 3.56 29.80 2.73 6 0 On Grade () or Abo x	29 A B 10.0 201 Area A B Fir 290 Loss Gain 1.7.35 28 642 1.0.89 58 1330 1 1.0.21 1.0.9 1.0.65 204 975 1.29 0.64 0.07 0.7 0.7 0.7 0.7 0.7 0.9 0.94 0.97 0.97 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98	16 A B 10.0 341 Area 5 A B Fir 160 In Loss 766 58 1330 132 102 488 5 7 132 102 488 5 7	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9 3 2189 1656 138	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 10 235 1123 15 7 2040 7 116 13 647 3	6 A B 11.0 28 Area A B Fir 66 Loss Gain 12 66 315 43 315 43 316 100 1	11 A B 12.0 71 Area A B Fir 132 Loss Gain 21 427 58 111 531 72 958 129 304 4	B B 10.0 Area Are A A B B Fir Fir	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
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Run ft. exposed wall A	3.55 22.93 11 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8i 4.00 20.35 17.03 4.78 1 8.50 9.58 59.22 1.37 1 22.86 3.56 29.80 2.73 1 0 On Grade () or Abo x 0.3171 0.0 1.14.07 1 x 0.05	29 A B 10.0 201 Area A B Fir 290 Loss Gain 17.35 28 642 10.89 58 1330 1 18.23 2.75 0.65 204 975 1.29 0.64 0.07 0.17 0.17 0.17 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	16 A B 10.0 341 Area 5 A B Fir 160 In Loss 766 58 1330 132 102 488 5 7 132 102 488 5 7	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 24 488 6 66 140 669 9 3 2189 1656 138	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 10 235 1123 15 7 2040 7 116 13 647 3	6 A B 11.0 28 Area A B Fir 66 Loss Gain 66 11 315 43 43 46 100 1 1	11 A B 12.0 71 Area A B Fir 132 Loss Gain 21 427 58 111 531 72 958 129 304 4	B B 10.0 Area Are A A B B B B B B B B B B B B B B B B B	a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall B Celling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components North Shaded East/West South Existing Windows Skylight Doors Net exposed walls B Exposed Ceilings A Exposed Ceilings A Exposed Ceilings B Exposed Floors undation Conductive Heatloss Heat Gain r Leakage Heat Loss/Gain case 1 entilation Case 2 Heat Gain People Appliances Loads Duct and Pipe loss	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 17.03 4.78 6 8.50 9.58 7 59.22 1.37 6 22.86 3.56 7 29.80 2.73 6 0 Grade () or Abo x 0.3171 0.0 0.03 (14.07 1 x 0.05 3	29 A B 10.0 201 Area A B Fir 290 Loss Gair 0.91 17.35 28 642 10.89 58 1330 1 18.22 1.275 1.29 0.64 1.66 0.17 (2947 2947 2 3311 935 0.08 1.88 0.08 1.88 0.08 1.89 0.08 1.81 0.08 1.82 2.94 2.947 2 3.947 3.	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 132 102 488 5 7 132 102 488 5 7 1824 173 85	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 666 140 669 9 3 2189 138 51 694 4 136 101 11	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 2275 25 66 6 0 235 1123 15 7 2040 113 647 3 4 95 9	6 A B 11.0 28 Area A B Fir 66 Loss Gain 315 315 43 315 43 43 43 43 43 43 43 43 43 43 43 43 43	11 A B 12.0 10.0 71 Area A B I I I I I I I I I I I I I I I I I I	B B 10.0 Area Are A A B B B B B B B B B B B B B B B B B	a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
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Run ft. exposed wall A Run ft. exposed wall A Run ft. exposed wall B Celling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B Components I North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls A Exposed Ceilings A Exposed Ceilings B Exposed Ceilings B Exposed Floors Indiation Conductive Heat Gain Leakage Heat Loss/Gain Leakage Heat Gain People Appliances Loads Duct and Pipe loss	3.55 22.93 10 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8 4.00 20.35 17.03 4.78 6 8.50 9.58 7 59.22 1.37 6 22.86 3.56 7 29.80 2.73 6 0 Grade () or Abo x 0.3171 0.0 0.03 (14.07 1 x 0.05 3	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 7.735 28 642 0.89 58 1330 1 1.88.23 2.75 1.29 0.64 975 1.129 0.64 975 1.29 0.64 975 1.29 0.64 975 1.29 0.64 975 1.29 0.64 137 293 311 935 1.88 137 293 311 2.5 2	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 132 102 488 5 7 132 102 488 5 7 1824 173 85	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 666 140 669 9 3 2189 138 51 694 4 136 101 11	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 10 235 1123 15 7 2040 7 3 647 3 4 95 9 1.0 82	6 A B 11.0 28 Area A B Fir 66 Loss Gain 12 66 315 43 315 43 315 43 410 10 1	11 A B 12.0 10.0 71 Area A B Fir 132 Loss Gain 111 531 72 958 129 304 4 11 1306	B B 10.0 Area Are A A B B B B B B B B B B B B B B B B B	B 10.0 a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir
Run ft. exposed wall A Run ft. exposed wall B Celling height Floor area Exposed Cellings A Exposed Cellings B Exposed Floors Gross Exp Wall A Gross Exp Wall A Gross Exp Wall B Components I North Shaded East/West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls B Exposed Cellings A Exposed Cellings B Exposed Floors Indiation Conductive Heattoss Doors Conductive Heat Loss Heat Gain Leakage Heat Loss Gain Case 2 Case 2 Appliances Loads Duct and Pipe loss 12 HL Total 14,009	3.55 22.93 11 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8i 4.00 20.35 17.03 4.78 6 8.50 9.58 59.22 1.37 22.86 3.66 29.80 2.73 6 0 On Grade () or Abo x 0.3171 0.0 0.03 6 14.07 1 x 0.05 6 1 = .25 percent 3 Total HL for per ro	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 7.735 28 642 0.89 58 1330 1 1.88.23 2.75 1.29 0.64 975 1.129 0.64 975 1.29 0.64 975 1.29 0.64 975 1.29 0.64 975 1.29 0.64 137 293 311 935 1.88 137 293 311 2.5 2	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330 132 102 488 5 7 1824 173 85 2669 0.5 2487	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 666 140 669 9 3 2189 1656 51 694 4 136 101 11 414 2985 2934 200	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 275 25 66 6 0 235 1123 15 77 3 647 3 4 95 9 1.0 82 2762 88	6 A B 11.0 28 Area A B Fir 66 Loss Gain 315 315 43 315 43 430 66 15 430 68 430 68 430 68 430 68 68 68 68 68 68 68 68 68 68 68 68 68	11 A B 12.0 10.0 71 Area A B FIr 132 Loss Gain 111 531 72 958 129 304 4 11 1306 187	B B 10.0 Area Are A B B B B B B B B B B B B B B B B B B	a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir Gain Loss Gain
Run ft. exposed wall A Run ft. exposed wall B Celling height Floor area Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall B Gross Exp Wall B Gross Exp Wall B Self West South Existing Windows Skylight Doors Net exposed walls A Net exposed walls B Exposed Ceilings B Exposed Conductive Heat Loss Heat Gain Leakage Heat Loss Gain Case 1 Case 2 Case 2 Case 1 Case 2 Case 1 Case 2 Case 1 Case 2 Case 1 Leakage Loss Duct and Pipe loss 12 HL Total 14,009	3.55 22.93 11 3.55 22.93 2 3.55 22.93 2 1.99 40.90 2 2.03 40.10 8i 4.00 20.35 17.03 4.78 6 8.50 9.58 59.22 1.37 22.86 3.66 29.80 2.73 6 0 On Grade () or Abo x 0.3171 0.0 0.03 6 14.07 1 x 0.05 6 1 = .25 percent 3 Total HL for per ro	29 A B 10.0 201 Area A B Fir 290 Loss Gain 0.91 7.735 28 642 0.89 58 1330 1 1.88.23 2.75 1.29 0.64 975 1.129 0.64 975 1.29 0.64 975 1.29 0.64 975 1.29 0.64 975 1.29 0.64 137 293 311 935 1.88 137 293 311 2.5 2	16 A B 10.0 341 Area 5 A B Fir 160 in Loss 766 58 1330 132 102 488 5 7 1824 2109 579 173 85 2069 0.5 2487	19 A B 11.0 108 Area A B Fir 209 Gain Loss Gain 1587 45 1032 123 666 140 669 9 3 2189 1656 51 694 4 136 101 11 414 2985 2934 200	25 A B 11.0 64 Area A B Fir 275 Loss Gain 11 28 642 76 12 275 25 66 6 00 235 1123 15 67 112 2840 116 687 3 4 95 9 1.0 82 2782 276 8 e design work and am of the second se	6 A B 11.0 28 Area A B Fir 66 Loss Gain 66 11 66 315 43 68 43 66 100 1 66 15 4 68 430 62 69 430 62 69 430 62	11 A B 12.0 10.0 71 Area A B Fir 132 Loss Gain 111 531 72 958 129 304 4 11 1306	B B 10.0 Area Are A A B B B B B B B B B B B B B B B B B	a Area A B Fir	B 10.0 Area A B Fir	B 10.0 Area A B Fir



Heatloss/Gain Calculations CSA-F280-12

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e-mail dave@gtadesigns.ca

	Builder: Bayview Well	ington Date	: December	12, 2023		Weather Data	Bradford	44 -9.4 86	22 48.2		Page 5
2012 OBC	Project: Green Val	ley Model	:TH-8	С	System 1	Heat Loss ^T	81.4 deg. F H	gain ^T 11 deg	. F GTA: 2008	Project # Layout #	PJ-00204 JB-04873
Run ft. exposed wall A Run ft. exposed wall B Ceilling height Floor area		B 8.0 8.0	BED 4 BAT 5 A 12 A B B 0 8.0 5 Area 89 Area	TH BED 3 22 A B 8.0 130 Area	BED 2 10 A B 10.0 178 Area	ENS 7 A B 8.0 86 Area	A B 8.0 Area	A B 8.0 8.	A B .0 8.0		rea
Exposed Ceilings A Exposed Ceilings B Exposed Floors		362 A 125 B Fir		130 A B 24 Flr	178 A B 129 Fir	86 A B Fir	A B Fir	A B Fir	A B Fir	A A B B Fir Fi	
Gross Exp Wall A Gross Exp Wall B	R-Values Loss Gain	224 120 Loss Gain		176	100	56 Loss Gain	Loss Gain	Loss Gain	Loss Gain		oss Gain
North Shaded East/West South Existing Windows	3.55 22.93 10.91 3.55 22.93 27.35 3.55 22.93 20.89	22 504 602 22 22 504 459		11 252 1	120 28 642 306 602	13 298 272	LUSS CAIT	Coss Gain	Coss Gain	E035 Gdill E1	Jan
Skylight Doors Net exposed walls A Net exposed walls B	2.03 40.10 88.23 4.00 20.35 2.75 17.03 4.78 0.65 8.50 9.58 1.29				92 72 344 47	43 206 28					
Exposed Ceilings A Exposed Ceilings B Exposed Floors	22.86 3.56 1.66		5 172 80 89 12	22 57 130 179 24 66	83 178 245 114 4 129 352 22	86 118 55					
Foundation Conductive Heatloss Otal Conductive Heat Loss Heat Gain Air Leakage Heat Loss/Gain		2367 1410 613 44	1145 98 745 297 23 25	707	1583 902 488 28 410 15	622 354 161 11					
Case 1 Case 2 Case 3	0.03 0.08 14.07 11.88 x 0.05 0.08	110 116	53 61 4	15 58 78	74 73 40	29 29					
Heat Gain People Appliances Loads Duct and Pipe loss Level 3 HL Total 11,141	1 =.25 percent 3311 10%		239		1 199 73	040					
Level 3 HL Total 11,141 Level 3 HG Total 8,314	Total HL for per room Total HG per room x 1.3	3090 2662	1494 1389		2266 616 1111	812 513					
Level 4 Run ft. exposed wall A		А	A A	A	A	A	А	A	A	A A	
Run ft. exposed wall B Ceiling height Floor area		B Area	B B Area Area	B Area	B Area	B Area	B Area	B Area	B Area		rea
Exposed Ceilings A Exposed Ceilings B Exposed Floors Gross Exp Wall A Gross Exp Wall B		A B Fir	A A B B Fir Fir	A B Fir	A B Fir	A B Fir	A B Fir	A B Fir	A B Fir	A A B B Fir Fi	
	R-Values Loss Gain 3.55 22.93 10.91 3.55 22.93 27.35 3.55 22.93 20.89	Loss Gain	Loss Gain Loss	Gain Loss Gain	n Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain	Loss Gain Lo	oss Gain
Existing Windows Skylight Doors Net exposed walls A	1.99 40.90 22.15 2.03 40.10 88.23 4.00 20.35 2.75										
Net exposed walls B Exposed Ceilings A Exposed Ceilings B	8.50 9.58 1.29 59.22 1.37 0.64 22.86 3.56 1.66										
Exposed Floors Foundation Conductive Heatloss otal Conductive Heat Loss											
Air Leakage Heat Loss/Gain Case 1	0.0000 0.0311 0.00 0.08										
Ventilation Case 2 Case 3 Heat Gain People Appliances Loads	x 0.05 0.08 239 1 = .25 percent 3311										
Duct and Pipe loss evel 4 HL Total 0 evel 4 HG Total 0								RE			E
tal Heat Loss 36,311 tal Heat Gain 22,594	btu/h btu/h			ity for the design work and am of the Building Code. Individua		e category as an "other		avid DaCosta		SB-12 Pa	



2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643

Page 6 PJ-00204

Project # e-mail dave@gtadesigns.ca Layout # JB-04873 I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under Division C subsection 3.2.5. of the Building Code. Individual BCIN: 32964 Mane Attento David DaCosta Package: Package A1 Project: **Bradford** Model: TH-8C RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY For systems serving one dwelling unit & conforming to the Ontario Building Code, O.reg 332/12

_	Location of Installation	
Lot #	Plan #	
Township	Bradford	
Roll #	Permit #	
Address		
	Duilden	
<u> </u>	Builder	
Name	Bayview Wellington	
Address		
City		
Tel	Fax	
.	Installing Contractor	
Name		
Address		
City		
Tel	Fax	
•		

		Combustion Appliances 9.32.3.1(1)
a)	Х	Direct vent (sealed combustion) only
b)		Positive venting induced draft (except fireplaces)
c)		Natural draft, B-vent or induced draft fireplaces
d)		Solid fuel (including fireplaces)
e)		No combustion Appliances

Heating System						
X	Forced air Non forced air Electric space heat (if over 10% of heat load)					

	House Type 9.32.3.1(2)						
I	Х	Type a) or b) appliances only, no solid fuel					
- II		Type I except with solid fuel (including fireplace)					
Ш		Any type c) appliance					
IV		Type I or II either electric space heat					
Other		Type I, II or IV no forced air					

	System Design Option						
1		Exhaust only / forced air system					
2		HRV WITH DUCTING / forced air system					
3	Х	HRV simplified connection to forced air system					
4	4 HRV full ducting/not coupled to forced air system						
		Part 6 design					

Total Ventilation Capacity 9.32.3.3(1)						
Bsmt & Master Bdrm Other Bedrooms	2	@	21.2 10.6	•	42.4 31.8	•
Bathrooms & Kitchen	4	@	10.6	cfm	42.4	cfm
Other rooms	3	@	10.6	cfm	31.8	cfm
			Total		148.4	

Principal Ventilation Capacity 9.32.3.4(1)							
Master bedroom Other bedrooms	1 3	_	31.8 15.9 Total		31.8 47.7 79.5		

Principal Exhaust Fan Capacity								
Make	Model	Location						
LifeBreath	RNC155	Base						
132 cfm		Sones	or Equiv.					

Heat Recovery Ventilator						
Make LifeBreath						
Model RNC155						
132 cfm high 80 cfr						
Sensible efficiency @ -25 deg C 71%						
Sensible efficiency @ 0 deg C 75%						

Note: Installer to balance HRV/ERV to within 10 percent of PVC

	The state of the s						
Supplemental Ventilation Capacity							
Tatal and Mating and Mating							
Total ventilation capacity	148.4						
Less principal exhaust capacity	79.5						
REQUIRED supplemental vent. Capacity	68.9 cfm						
							

Supplemental Fans 9.32.3.5.						
Location	cfm	Model	Sones			
Ens	50	XB50	0.3			
Bath	50	XB50	0.3			
all fans HVI listed	Make	Broan	or Equiv.			

Designer Certification I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.							
Name	Name David DaCosta						
Signature	Mare	166 4					
HRAI#	5190	BCIN#	32964				
Date	December 1	2, 2023	WFI				

Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

Page 7

Project # PJ-00204 Layout # JB-04873

2985 Drew Road, Suite 202, Mississauga, Ontario L4T 0A4 Tel: 905-671-9800 Fax: 647-494-9643 e-mail dave@gtadesigns.ca

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

For use by Principal Authority								
Application No:				Model/Certification Number				
A. Project Information								
Building number, street name						Unit number	Lot/Con	
			TH-8C					
Municipality Bradford			Postal code	Reg. Plar	number / ot	her description		
2.00.00								
B. Prescriptive Compliance [indica	ite the bu	ilding cod	e compliance pacl	age being	employed in	the house design]		
SB-12 Prescriptive (input design pa	ckage):		<u>Pac</u>	kage A1		Table:	3.1.1.2.	<u>A</u>
C. Project Design Conditions								
Climatic Zone (SB-1):		Heat. E	quip. Efficiency	1		Space Heating F	uel Sourc	e
Zone 1 (< 5000 degree days)		√ ≥ 92	2% AFUE	V	Gas	☐ Propane		Solid Fuel
Zone 2 (≥ 5000 degree days)		□ ≥8	4% < 92% AFUE		Oil	☐ Electric		Earth Energy
Ratio of Windows, Skylights & Glas	s (W, S	& G) to \	Wall Area			Other Building Cha	aracteris	tics
4 (14/ 11 000 00 11/2 0000 0	612			☐ Log/	Post&Beam	☐ ICF Above (Grade	☐ ICF Basement
Area of Walls = 303.23 m ² or 3263.9	ft²	W,S &	G % = <u>12%</u>	☐ Slab	o-on-ground	│ │ Walkout Ba	sement	
				☑ Air C	Conditioning	Combo Unit		
Area of W, S & G = <u>36.881</u> m ² or <u>397.0</u>	ft²	Utilize V	Vindow □ Ye	Air S	Sourced Hea	at Pump (ASHP)		
		Avera	aging 🔽 No	☐ Gro	und Source	Heat Pump (GSHP)		
D. Building Specifications [provide	values a	nd ratings	of the energy effi	ciency com	ponents pro	posed]		
Energy Efficiency Substitutions						·		
☐ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5))								
Combined space heating and domestic	water he	ating syst	ems (3.1.1.2(7) /	3.1.1.3.(7))				
☐ Airtightness substitution(s)		Table 3.1	.1.4.B Require	d:		Permitted S	Substitution	:
Airtightness test required		Table 3.1	1 4 C Require	d:		Permitted S	Substitution	ı:
(Refer to Design Guide Attached)		Table 3.	Require	d:		Permitted S	Substitution	ı:
Building Component		imum RSI/R-Values or			Buil	ding Component		Efficiency Ratings
			า U-Value¹					, ,
Thermal Insulation		ninal	Effective	_		rs Provide U-Value ⁽¹⁾ o	r ER rating	
Ceiling with Attic Space		0				Blass Doors		1.6
Ceiling without Attic Space		<u> </u>		Skylight	S			2.8
Exposed Floor		51		Mecha				T
Walls Above Grade	22				Equip.(AF	-		96%
Basement Walls		20.0ci		-		RE% at 0°C)		75%
Slab (all >600mm below grade)		X		DHW H	eater (EF)			0.80
Slab (edge only ≤600mm below grade)		10		DWHR (CSA B55.1 (min. 42% efficiency))		#Showers 2		
Slab (all ≤600mm below grade, or heated)		0		Combin	ed Heating	System		
(1) U value to be provided in either W/(m²·K) or Bt	u/(h·ft·F) b	out not bot	h.					
E. Designer(s) [name(s) & BCIN(s), if	applicable	e, of perso		rmation he		<u> </u>	ts building	code]
Name			BCIN	2-2-2-	Signature		11/	,
David DaCosta			32	964		Mane.	14C=	~{~
Form authorized by OHRA OROA IMCRO Revised December 1 20					1			





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Page 8
Project # PJ-00204
Layout # JB-04873

Package:Package A1System:System 1Project:BradfordModel:TH-8C

Air Leakage Calculations

Building Air Leakage Heat Loss							
В	LRairh	Vb	HL^T	HLleak			
0.018	0.324	22894	81.4	10861			

Building Air Leakage Heat Gain							
В	LRairh	Vb	HG^T	HG Leak			
0.018	0.079	22894	11	358			

	Air Leakage Heat Loss/Gain Multiplier Table (Section 11)								
Level	Level	Building	Level Conductive	Air Leakage Heat Loss					
Level	Factor (LF)	Air	Heat Loss	Multiplier					
Level 1	0.5		5476	0.9917					
Level 2	0.3	10861	10275	0.3171					
Level 3	0.2	10001	8381	0.2592					
Level 4	0		0	0.0000					

	Air Leakage Heat Gain	
HG LEAK	358	0.0311
BUILDING CONDUCTIVE HEAT GAIN	11499	0.0311

Levels							
1	2	3	4				
(LF)	(LF)	(LF)	(LF)				
1.0	0.6	0.5	0.4				
	0.4	0.3	0.3				
·		0.2	0.2				
			0.1				

Levels this Dwelling
3

Ventilation Calculations

Ventilation Heat Loss									
Ventilation Heat Loss									
С	PVC	HL^T	(1-E) HRV	HLbvent					
1.08	79.5	81.4	0.16	1118					

Case 1

/ent

Case

Level 1 Level 2 Level 3

Level 4

Total Ventilat

0.2

Ventilation Heat Gain			
С	PVC	HG^T	HGbvent
1.1	79.5	11	944

	_
Ventilation Heat Loss (Exhaust only Systems	s)

Case 1 - Exhaust Only			
LF	HLbvent	LVL Cond. HL	Multiplier
0.5		5476	0.10
0.3	4440	10275	0.03

8381

0.03

0.00

ventilation Heat Gain (Exnaust Only Systems)

Case 1

Ventilation Heat Gain

Case 1 - Exhaust Only		Multiplie
HGbvent	944	0.08
Building	11499	0.06

		Ventilation Heat Loss	(Direct Ducted Systems)
--	--	-----------------------	-------------------------

			Multiplier
С	HL^T	(1-E) HRV	14.07
1.08	81.4	0.16	14.07

ventilation Heat G	ain (Direct Ducted Systems	5)
	Muddielies	

Case 2

		Multiplier
С	HG^T	11.88
1.08	11	11.00

Case 3

Ventilation Heat Loss	(Forced Air Systems)

	HLbvent	Multiplier
tion Load	1118	0.05

Case	3

		Vent Heat Gain	Multiplier
HGbvent	HG*1.3	944	0.08
044	4	344	0.00

Ventilation Heat Gain (Forced Air Systems)

Foundation Conductive Heatloss Level 1

1439

Watts

4911

Btu/h

Foundation Conductive Heatloss Level 2

Watts

Btu/h

I review and take responsibility for the design work and am qualified in the appropriate category as an "other designer" under Division C subsection 3.2.5. of the Building Code. Individual BCIN: 32964

REVIEWEL

Envelope Air Leakage Calculator

Supplemental tool for CAN/CSA-F280

Weather Station	Description
Province:	Ontario
Region:	Bradford ▼
Weather Station Location:	Open flat terrain, grass
Anemometer height (m):	10
Local Shiel	lding
Building Site:	Suburban, forest ▼
Walls:	Heavy ▼
Flue:	Heavy ▼
Highest Ceiling Height (m):	6.55
Building Confi	guration
Type:	Semi-Detached
Number of Stories:	Two
Foundation:	Shallow
House Volume (m³):	648.36
Air Leakage/Ve	entilation
Air Tightness Type:	Present (1961-) (ACH=3.57)
ustom BDT Data:	
ouotom 55 : 5ata.	3.57 ACH @ 50 Pa
Mechanical Ventilation (L/s):	Total Supply: Total Exhaust:
	39.75
Flue #:	#1 #2 #3 #4
Diameter (mm):	0 0 0 0
Heating Air Leakage Rate (ACH/H):	0.324
Cooling Air Leakage Rate (ACH/H):	0.079

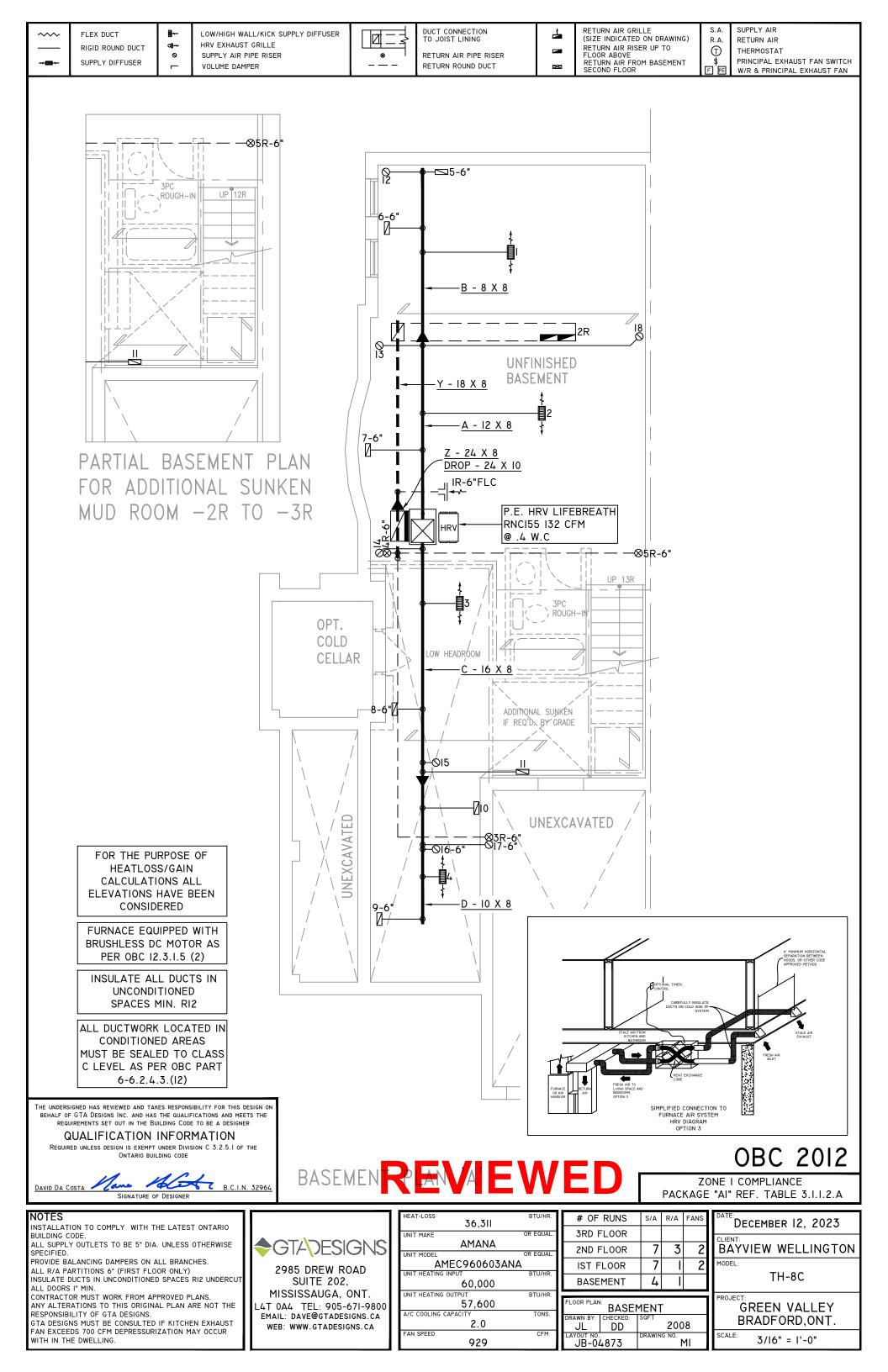


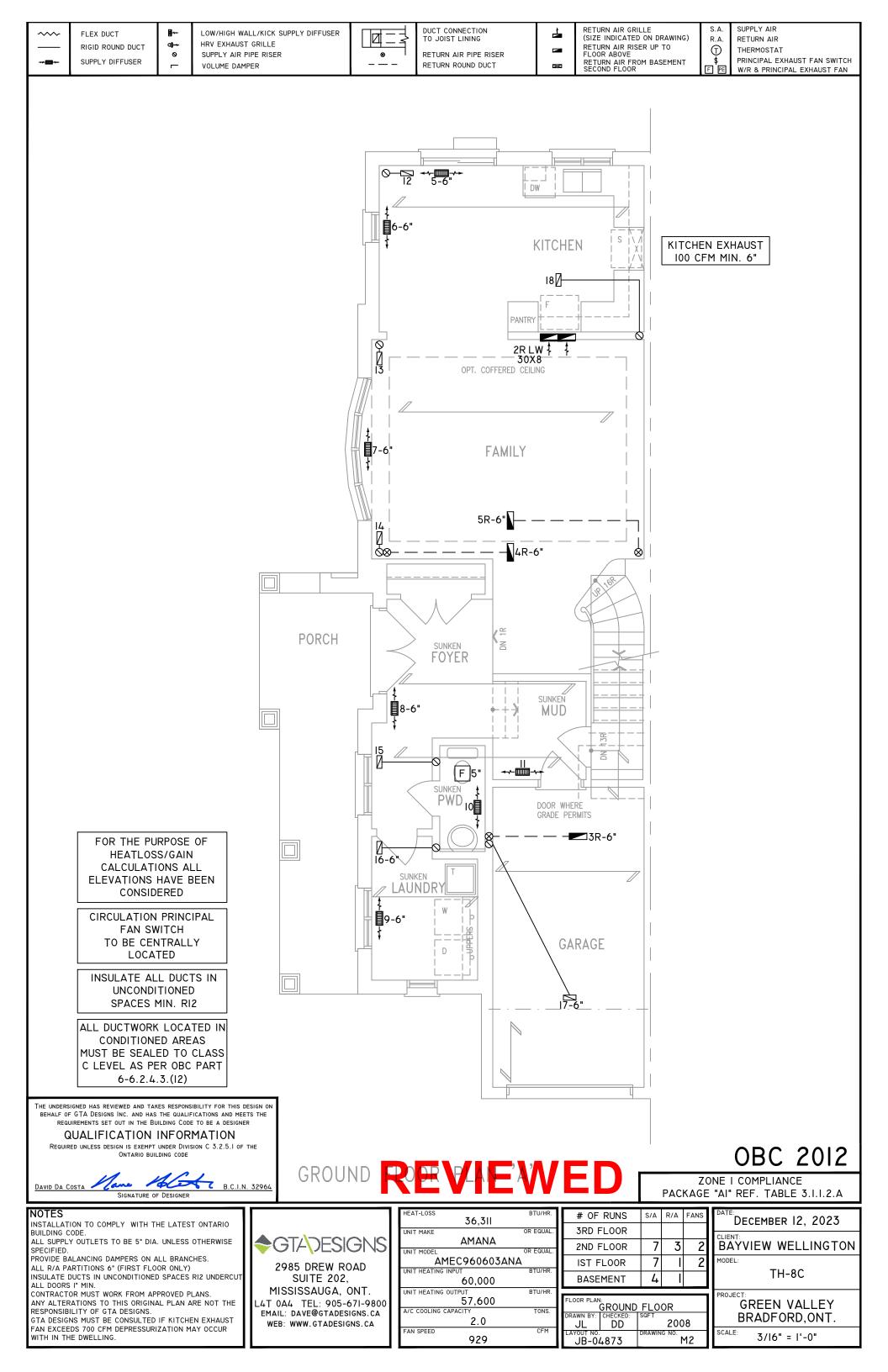
Residential Foundation Thermal Load Calculator

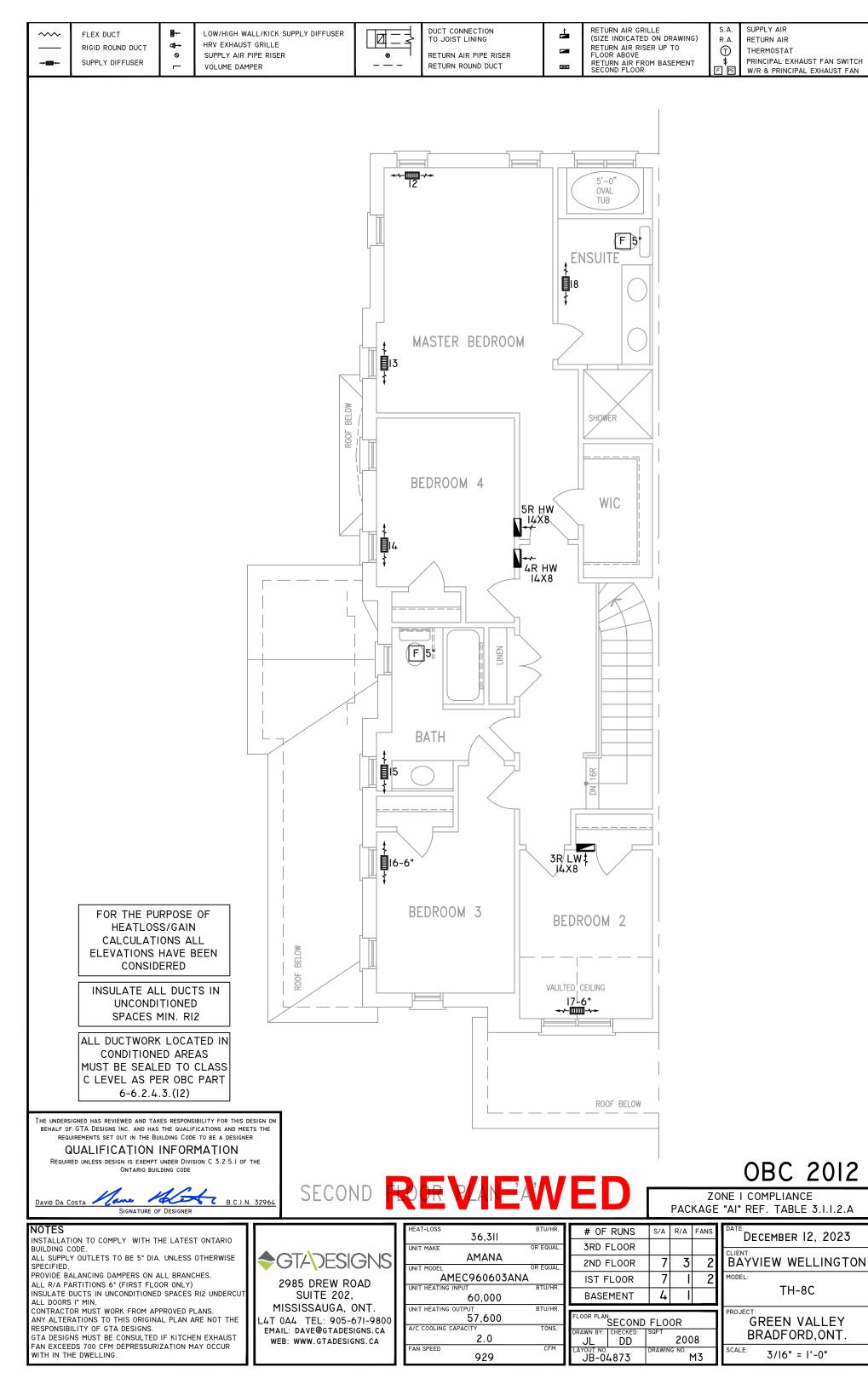
Supplemental tool for CAN/CSA-F280

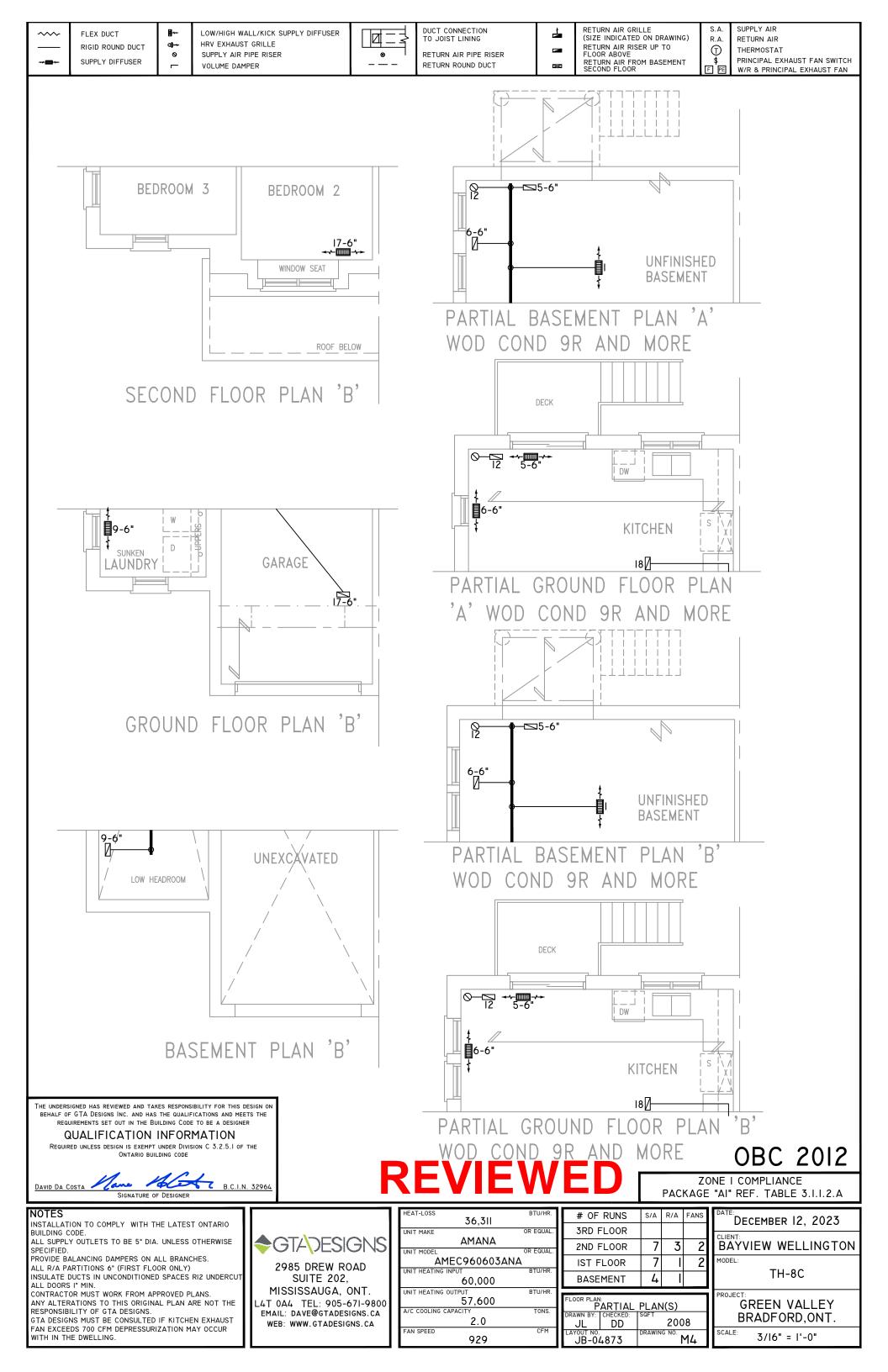
Weather Station Description					
Province:		Ontario			
Region: Bradford		Bradford ▼			
	Site Description				
Soil Conductivity:		High conductivity: moist soil ▼			
Water Table:		Normal (7-10 m, 23-33 Ft) ▼			
Foundation Dimensions					
Floor Length (m):	18.20				
Floor Width (m):	4.21				
Exposed Perimeter (m):	32.31				
Wall Height (m):	2.59				
Depth Below Grade (m):	1.52	Insulation Configuration			
Window Area (m²):	0.56				
Door Area (m²):	1.95				
	Radi	ant Slab			
Heated Fraction of the Slab:	0				
Fluid Temperature (°C):	33				
	Desig	n Months			
Heating Month	1				
Foundation Loads					
Heating Load (Watts):	Heating Load (Watts): 1439				

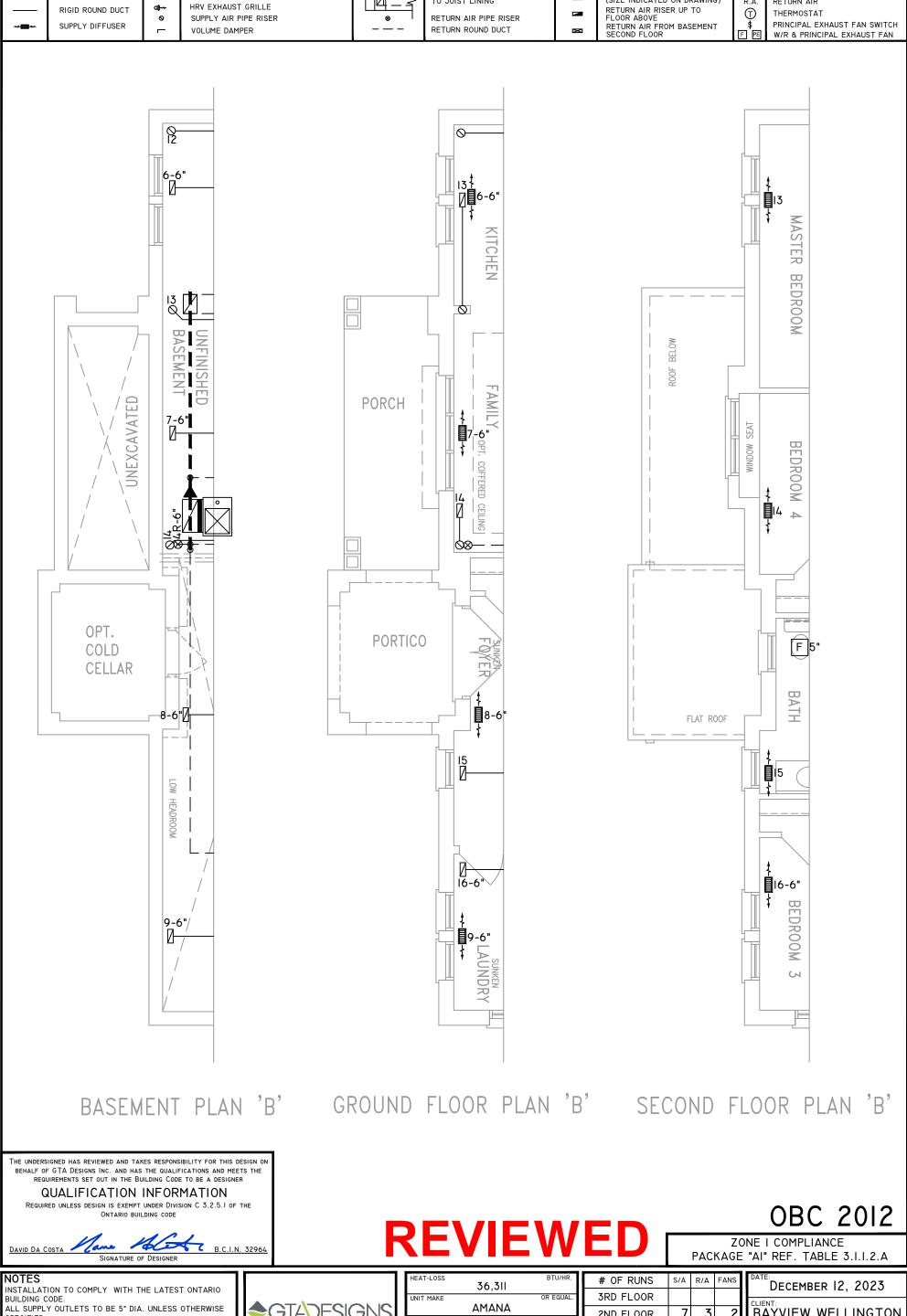












DUCT CONNECTION TO JOIST LINING

RETURN AIR GRILLE (SIZE INDICATED ON DRAWING)

4

SUPPLY AIR

RETURN AIR

R.A

SPECIFIED.

PROVIDE BALANCING DAMPERS ON ALL BRANCHES. ALL R/A PARTITIONS 6" (FIRST FLOOR ONLY) INSULATE DUCTS IN UNCONDITIONED SPACES RI2 UNDERCUT ALL DOORS I" MIN.

FLEX DUCT

LOW/HIGH WALL/KICK SUPPLY DIFFUSER

CONTRACTOR MUST WORK FROM APPROVED PLANS. ANY ALTERATIONS TO THIS ORIGINAL PLAN ARE NOT THE

RESPONSIBILITY OF GTA DESIGNS.

GTA DESIGNS MUST BE CONSULTED IF KITCHEN EXHAUST FAN EXCEEDS 700 CFM DEPRESSURIZATION MAY OCCUR WITH IN THE DWELLING.

GTADESIGNS

2985 DREW ROAD SUITE 202, MISSISSAUGA, ONT. L4T 0A4 TEL: 905-671-9800 EMAIL: DAVE@GTADESIGNS.CA

WEB: WWW.GTADESIGNS.CA

36,311	
UNIT MAKE	OR EQUAL.
AMANA	
UNIT MODEL	OR EQUAL.
AMEC960603ANA	7
UNIT HEATING INPUT	BTU/HR.
60,000	
UNIT HEATING OUTPUT	BTU/HR.
57,600	
A/C COOLING CAPACITY	TONS.
2.0	
FAN SPEED	CFM
929	

13	1	•
		_
2	ľ	
2	١	
<u> </u>	F	-
_ 	F	
	F	
	2	2

AI NEI . TABEL 3.1.1.Z.A
DECEMBER 12, 2023
CLIENT: BAYVIEW WELLINGTON
MODEL: TH-8C
GREEN VALLEY BRADFORD,ONT.

3/16" = 1'-0"