



Load Short Form
Entire House
HVAC Design Services

Cert.#: 00195(RHLG, RASD)

3215 Grassie Rd, Grassie, On L0R 1M0 Phone: 905-309-6444 Fax: 905-309-6333 Email: sandy.cj@live.com License: BCIN #: 24790

Job:

Date:



S. Clarke-Johnson
Hamilton

Building Division

Project Information

For: **Welmers and Sons Heating and A/C**
59 Kirby Ave Unit 2, Dundas, On L9H 6P3
Phone: 905-628-3859 Fax: 905-627-5949

Reviewed for Ontario Building Code Compliance.

Subject to Corrections Noted on Plans and Field Inspections.

Design Information

	Htg	Clg	
Outside db (°F)	1	88	Method
Inside db (°F)	72	75	Exposure category
Design TD (°F)	71	13	Construction category
Daily range	-	M	Number of stories
Inside humidity (%)	30	50	
Moisture difference (gr/lb)	30	33	

Infiltration

Permit: 21 104272 000 00 R9
Date: ~~F2504921~~
Heavy shielding
Present (1991) (ACH=3.57)
Approved by: *Smith*

HEATING EQUIPMENT

Make
Trade
Model
AHRI ref

Efficiency 96 AFUE
Heating input 0 Btuh
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 320 cfm
Air flow factor 0.018 cfm/Btuh
Static pressure 0 in H2O
Space thermostat

COOLING EQUIPMENT

Make
Trade
Cond
Coil
AHRI ref
Efficiency 0 SEER
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 320 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.77

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MASTER BDRM	293	2614	3255	48	144
ENSUITE	133	1916	963	35	42
W.I.C.	111	507	115	9	5
GARAGE HALL	63	1578	499	29	22
LAUNDRY RM	135	1475	1852	27	82
HALL	86	1041	173	19	8
BASEMENT	734	8264	393	152	17



Draft A, nov-30-2017-8ppts

Entire House	d	1553	17395	7251	320	320
Other equip loads			0	0		
Equip. @ 1.00 RSM				7251		
Latent cooling				2175		
TOTALS		1553	17395	9426	320	320



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Permit: 21 104272 000 00 R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *Smith*

Draft A, nov-30-2017-8pts

The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.

QUALIFICATION INFORMATION

Required unless design is exempt under 2.17.5.1 of the building code
 S Clarke-Johnson *S. Clarke-Johnson* 24790
 NAME SIGNATURE BCIN

REGISTRATION INFORMATION

Required unless design is exempt under 2.17.4.1 of the building code
 S Clarke-Johnson *S. Clarke-Johnson* 24790
 NAME SIGNATURE BCIN



Project Summary
Entire House
HVAC Design Services

Cert.#: 00195(RHLG, RASD)
 3215 Grassie Rd, Grassie, On L0R 1M0 Phone: 905-309-6444 Fax: 905-309-6333 Email: sandy.cj@live.com License: BCIN #: 24790

Job:
 Date: **S Clarke-Johnson**

Hamilton
 Building Division

Project Information

For: **Welmers and Sons Heating and A/C**
 59 Kirby Ave Unit 2, Dundas, On L9H 6P3
 Phone: 905-628-3859 Fax: 905-627-5949

Notes: **688 Crooks Hollow Rd**
 Dundas, On

Reviewed for Ontario Building Code Compliance.
 Subject to Corrections Noted on Plans and Field Inspections.

Design Information

Weather: **Hamilton, ON, CA**

Permit: **21 104272 000 00 R9**
 Date: **05/19/21**
 Name: **Laurie Smith**
 Approved by: *LSmith*

Winter Design Conditions

Outside db **1 °F**
 Inside db **72 °F**
 Design TD **71 °F**

Summer Design Conditions

Outside db **88 °F**
 Inside db **75 °F**
 Design TD **13 °F**
 Daily range **M**
 Relative humidity **50 %**
 Moisture difference **33 gr/lb**

Heating Summary

Structure **17259 Btuh**
 Ducts **136 Btuh**
 Central vent (0 cfm) **0 Btuh**
 Outside air
 Humidification **0 Btuh**
 Piping **0 Btuh**
 Equipment load **17395 Btuh**

Sensible Cooling Equipment Load Sizing

Structure **7228 Btuh**
 Ducts **23 Btuh**
 Central vent (0 cfm) **0 Btuh**
 Outside air
 Blower **0 Btuh**
 Use manufacturer's data **y**
 Rate/swing multiplier **1.00**
 Equipment sensible load **7251 Btuh**

Infiltration

Method **F280-12**
 Exposure category **Heavy shielding**
 Const. categ. **Present (1961-) (ACH=3.57)**
 Number of stories **1.0**

Latent Cooling Equipment Load Sizing

Structure **2175 Btuh**
 Ducts **0 Btuh**
 Central vent (0 cfm) **0 Btuh**
 Outside air
 Equipment latent load **2175 Btuh**
 Equipment total load **9426 Btuh**
 Req. total capacity at 0.70 SHR **0.9 ton**

	Heating	Cooling
Area (ft ²)	1553	1553
Volume (ft ³)	13012	13012
Air changes/hour	0.16	0.05
Equiv. AVF (cfm)	35	10

Heating Equipment Summary

Make
 Trade
 Model
 AHRI ref

Efficiency **96 AFUE**
 Heating input **0 Btuh**
 Heating output **0 Btuh**
 Temperature rise **0 °F**
 Actual air flow **320 cfm**
 Air flow factor **0.018 cfm/Btuh**
 Static pressure **0 in H2O**
 Space thermostat

Cooling Equipment Summary

Make
 Trade
 Cond
 Coil
 AHRI ref

Efficiency **0 SEER**
 Sensible cooling **0 Btuh**
 Latent cooling **0 Btuh**
 Total cooling **0 Btuh**
 Actual air flow **320 cfm**
 Air flow factor **0.044 cfm/Btuh**
 Static pressure **0 in H2O**
 Load sensible heat ratio **0.77**



Draft A, nov-30-2017-8pts

Right-F280™ Worksheet

Entire House

HVAC Design Services

Job:

Date:

B S Clarke-Johnson



Hamilton

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 3215 Grassie Rd, Grassie, On LOR 1M0 Phone: 905-309-6444 Fax: 905-309-6333 Email: sandy.cj@live.com License: BCIN #: 24790

Building Division

1		Room name		Entire House				MASTER BDRM				ENSUITE					
2		Exposed wall		186.8 ft				29.0 ft				14.8 ft					
3		Room dimensions		8.4 ft				1.0 x 292.9 ft				8.0 ft					
4		Room height		d				8.0 ft				heat/cool					
Ty	CST	R - value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
5	W	3A12	n	4.0	0.3	274	203	816	69	0	0	0	0	0	0	0	0
		2 glazi	n	19.8	12.7	50	0	996	641	0	0	0	0	0	0	0	0
		23G0	n	9.0	0.8	21	21	189	16	0	0	0	0	0	0	0	0
	W	7A13	n	4.6	0.4	24	24	107	9	0	0	0	0	0	0	0	0
	W	3A12	e	4.0	0.9	88	88	354	80	64	64	258	58	0	0	0	0
	W	7A13	e	4.6	1.0	9	9	40	9	0	0	0	0	0	0	0	0
	W	3A12	s	4.0	0.5	274	173	698	87	118	72	292	37	0	0	0	0
		2 glazi	s	19.8	21.2	80	0	1577	1694	46	0	901	968	0	0	0	0
		23G0	s	9.0	1.1	21	21	189	24	0	0	0	0	0	0	0	0
	W	7A13	s	4.6	0.6	24	24	107	13	0	0	0	0	0	0	0	0
	W	3A12	w	4.0	0.9	66	66	266	60	50	50	201	44	0	0	0	0
	W	7A13	w	4.6	1.0	23	23	106	24	0	0	0	0	0	0	0	0
	P	1A12	-	4.0	0.4	166	145	585	57	0	0	0	0	0	0	0	0
		23G0	-	9.0	0.8	21	21	189	16	0	0	0	0	0	0	0	0
	P	7A13	-	4.6	0.4	158	158	721	70	0	0	0	0	0	0	0	0
	C	Attic c	-	1.2	0.7	819	819	971	547	293	293	347	196	186	186	157	88
	F	15A17	-	1.2	0.2	86	86	102	20	0	0	0	0	0	0	0	0
	F	BCIN_2	-	n/a	0.0	734	734	4124	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain							12136	3435			1999	1303			1461	885
7	a) Infiltration							2683	143			310	54			226	37
	b) Ventilation							2440	442			305	55			229	41
8	Internal gains:			People@ 239		2		478		2		478		0		0	
				Electric/Appliances				2730				1365				0	
	Subtotal (lines 6 to 8)							17259	7228			2614	3255			1916	963
9	Less external load							0	0			0	0			0	0
10	Less transfer							0	0			0	0			0	0
11	Subtotal							17259	7228			2614	3255			1916	963
12	Distribution losses			Ducts		1%		136	23	0%		0	0	0%		0	0
	Redistribution			Hydronic		0%		0	0	0%		0	0	0%		0	0
13	Total room load							17395	7251			2614	3255			1916	963
14	Air required (cfm)							320	320			48	144			35	42

Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.

Permit: 2110427200000R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *LSmith*

Draft A, nov-30-2017-8pts

Right-F280™ Worksheet
Entire House
HVAC Design Services

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 3215 Grassie Rd, Grassie, On LOR 1M0 Phone: 905-309-6444 Fax: 905-309-6333 Email: sandy.cj@live.com License: BCIN #: 24190

Job:

Date:

By: S Clarke-Johnson



Hamilton

Building Division

1 Room name		W.I.C.		GARAGE HALL		LAUNDRY RM												
2 Exposed wall		0 ft		14.8 ft		19.8 ft												
3 Room dimensions		14.8 x 7.5 ft		14.8 x 4.3 ft		1.0 x 13.9 ft												
4 Room height		8.0 ft		8.0 ft		8.0 ft												
Ty	CST	R-value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
5	W	3A12	17.53	n	4.0	0.3	0	0	0	0	118	90	362	31	118	96	366	33
		2 glazi	3.57	n	19.8	12.7	0	0	0	0	28	0	557	359	118	96	366	33
		23G0	7.86	n	9.0	0.8	0	0	0	0	0	0	0	0	0	0	0	0
	W	7A13	15.51	n	4.6	0.4	0	0	0	0	0	0	0	0	0	0	0	0
	W	3A12	17.53	e	4.0	0.9	0	0	0	0	0	0	0	0	24	24	97	22
	W	7A13	15.51	e	4.6	1.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	3A12	17.53	s	4.0	0.5	0	0	0	0	0	0	0	0	0	0	0	0
		2 glazi	3.57	s	19.8	21.2	0	0	0	0	0	0	0	0	0	0	0	0
		23G0	7.86	s	9.0	1.1	0	0	0	0	0	0	0	0	0	0	0	0
	W	7A13	15.51	s	4.6	0.6	0	0	0	0	0	0	0	0	0	0	0	0
	W	3A12	17.53	w	4.0	0.9	0	0	0	0	0	0	0	0	0	0	0	0
	W	7A13	15.51	w	4.6	1.0	0	0	0	0	0	0	0	0	0	0	0	0
	P	1A12	17.51	-	4.0	0.4	60	60	242	24	34	13	52	5	0	0	0	0
		23G0	7.86	n	9.0	0.8	0	0	0	0	21	21	189	16	0	0	0	0
	P	7A13	15.51	-	4.6	0.4	0	0	0	0	0	0	0	0	0	0	0	0
	C	Attic c	59.59	-	1.2	0.7	111	111	131	74	63	63	74	42	125	125	160	99
	F	15A17	29.56	-	1.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0
	F	BCIN_2	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								373	97			1234	452			1146	441
7	a) Infiltration								58	4			191	19			177	18
	b) Ventilation								76	14			152	28			152	28
8	Internal gains:		People@	239					0	0			0	0			0	0
			Electric/Appliances						0	0			0	0			0	1365
	Subtotal (lines 6 to 8)								507	115			1578	499			1475	1852
9	Less external load								0	0			0	0			0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								507	115			1578	499			1475	1852
12	Distribution losses		Ducts			0%	0%		0	0			0	0		0%	0%	0
			Hydronic			0%			0	0			0	0		0%		0
	Redistribution								0	0			0	0			0	0
13	Total room load								507	115			1578	499			1475	1852
14	Air required (cfm)								9	5			29	22			27	82

Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.

Permit: 2110427200000R9

Date: 05/19/21

Name: Laurie Smith

Approved by: *LSmith*

Draft A, nov-30-2017-8pts

Right-F280™ Worksheet

Entire House

HVAC Design Services

Cert #: 00195(RHLG, RASD)
 3215 Grassie Rd, Grassie, On L0R 1M0 Phone: 905-309-6444 Fax: 905-309-6333 Email: sandy.cj@live.com License: BCIN #: 24790

Job:

Date:

B:

S Clarke-Johnson



Hamilton

Building Division

1	Room name				HALL				BASEMENT				Area or perim	Load		
	Exposed wall				9.5 ft				99.0 ft							
	Room dimensions				4.8 x 18.0 ft				1.0 x 733.8 ft							
4	Room height				8.0 ft				8.8 ft							
	Ty	CST	R - value	Or	TD/R (Btuh/ft²)		Area (ft²) or perim (ft)		Load (Btuh)		Area (ft²) or perim (ft)		Load (Btuh)		Area or perim	Load
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool		
5	W	3A12	17.53	n	4.0	0.3	38	17	68	6	0	0	0	0		
		2 glazi	3.57	n	19.8	12.7	0	0	0	0	0	0	0	0		
		D 23G0	7.86	n	9.0	0.8	21	21	189	16	0	0	0	0		
	W	7A13	15.51	n	4.6	0.4	0	0	0	0	24	24	107	9		
	W	3A12	17.53	e	4.0	0.9	0	0	0	0	0	0	0	0		
	W	7A13	15.51	e	4.6	1.0	0	0	0	0	9	9	40	9		
	W	3A12	17.53	s	4.0	0.5	38	17	68	9	0	0	0	0		
		G 2 glazi	3.57	s	19.8	21.2	0	0	0	0	0	0	0	0		
		D 23G0	7.86	s	9.0	1.1	21	21	189	24	0	0	0	0		
	W	7A13	15.51	s	4.6	0.6	0	0	0	0	24	24	107	13		
	W	3A12	17.53	w	4.0	0.9	0	0	0	0	0	0	0	0		
	W	7A13	15.51	w	4.6	1.0	0	0	0	0	23	23	106	24		
	P	1A12	17.51	-	4.0	0.4	0	0	0	0	0	0	0	0		
		D 23G0	7.86	-	9.0	0.8	0	0	0	0	0	0	0	0		
	P	7A13	15.51	n	4.6	0.4	0	0	0	0	158	158	721	70		
	C	Attic c	59.59	-	1.2	0.7	86	86	101	57	0	0	0	0		
	F	15A17	29.56	-	1.2	0.2	86	86	102	20	0	0	0	0		
	F	BCIN_2	n/a	-	n/a	0.0	0	0	0	0	734	734	4124	0		
6	Total conductive loss/gain								717	131			5205	125		
7	a) Infiltration								111	5			1610	5		
	b) Ventilation								76	14			1449	263		
8	Internal gains: People@ 239							0		0		0		0		
	Electric/Appliances									0				0		
	Subtotal (lines 6 to 8)								905	150			8264	393		
9	Less external load								0	0			0	0		
10	Less transfer								0	0			0	0		
11	Subtotal								905	150			8264	393		
12	Distribution losses								136	23			0	0		
	Ducts								0	0			0	0		
	Hydronic								0	0			0	0		
	Redistribution								0	0			0	0		
13	Total room load								1041	173			8264	393		
14	Air required (cfm)								19	8			152	17		

Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.

Permit: 21 104272 000 00 R9

Date: 05/19/21

Name: Laurie Smith

Approved by: *Smith*

Draft A, nov30-2017-8pts



F280 Infiltration Report
Entire House
HVAC Design Services

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Project Information

For: **Welmers and Sons Heating and A/C**
 59 Kirby Ave Unit 2, Dundas, On L9H 6P3
 Phone: 905-628-3859 Fax: 905-627-5949

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Design Conditions

House type	Detached
Site	Suburban, forested
Wall shielding	Heavy shielding
Storeys	1.0 (w/o basement)
Highest ceiling height (ft)	8.8
Foundation	Full

Permit: 21 104272 000 00 R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *LSmith*

Draft A, nov-30-2017-8ppts

Air Leakage

Air tightness Present (1961-) (ACH=3.57)

Flues

Shielding	Heavy shielding			
	#1	#2	#3	#4
Diameter (in)	0	0	0	0

Summary

Heating		Cooling	
Infiltration area	1553 ft ²	Infiltration area	1553 ft ²
Infiltration volume	13012 ft ³	Infiltration volume	13012 ft ³
Unadjusted air change rate	0.162 ach	Unadjusted air change rate	0.048 ach
Unadjusted AVF	35 cfm	Unadjusted AVF	10 cfm
Vent adjustment	0 cfm	Vent adjustment	0 cfm
Net AVF	35 cfm	Net AVF	10 cfm
Net air change rate	0.162 ach	Net air change rate	0.048 ach





F280-12 Room Infiltration
Entire House
HVAC Design Services

Cert.#: 00195(RHLG, RASD)

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Job:

Date:



S. Clarke-Johnson
Hamilton

Building Division

**Reviewed for Ontario
 Building Code Compliance.**

Room Name	Level Factor	Htg load (Btuh)	Clg load (Btuh)	Htg AVE (cfm)	Subject to Code On Plans	Cog AVE (cfm)	Notes
MASTER BDRM	0.40	310	54	4	4		
ENSUITE	0.40	226	37	3	3		
W.I.C.	0.40	58	4	1	0		
GARAGE HALL	0.40	191	19	3	1		
LAUNDRY RM	0.40	177	18	2	1		
HALL	0.40	111	5	1	0		
BASEMENT	0.60	1610	5	21	0		
Entire House	0	2683	143	35	10		

Permit: 21 104272 00 00 R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *Smith*

Draft A, nov-30-2017-8pts


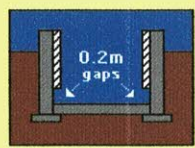


Project Information

For: Welmers and Sons Heating and A/C
 59 Kirby Ave Unit 2, Dundas, On L9H 6P3
 Phone: 905-628-3859 Fax: 905-627-5949

Reviewed for Ontario Building Code Compliance.
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Weather Station	
Province	ON
Region	Hamilton
Foundation Dimensions	
Floor length (ft)	83.5
Floor width (ft)	8.8
Exposed perimeter (ft)	99.0
Wall height (ft)	8.8
Depth below grade (ft)	8.0
Window area (ft ²)	0
Door area (ft ²)	0
Radiant Slab	
Heated fraction	0
Design Months	
Heating month	1
Foundation Loads	
Heating load (Btuh)	4124

Site	
Soil conductivity	Normal - dry sand, loam clay
Water table	Normal (23-33 ft)
Permit	21 104272 000 00 R9
Date	06/02
Name	Laurie Smith
Approved by	
Insulation Configuration	
Configuration	BCIN_2
Int wall insul (ft ² -°F/Btuh)	20.00
	
<ul style="list-style-type: none"> - concrete walls and floor - interior surface of wall insulated from top of wall to 0.2 m (8 in) from floor - any first storey construction type 	

Load Allocation

Room	Exposed perimeter (ft)	Heating load (Btuh)
BASEMENT	99.0	4124



Hamilton

Building Division

Reviewed for Ontario Building Code Compliance.

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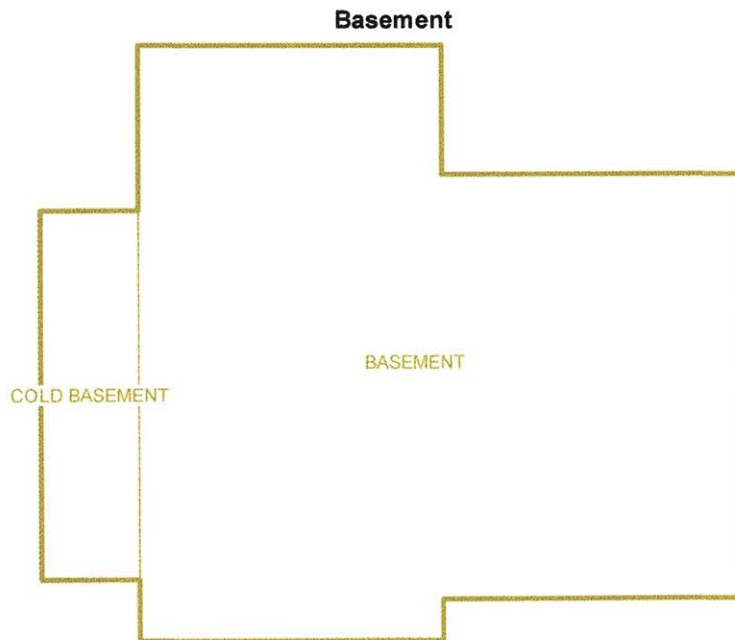
Permit: 21 104272 000 00 R9

Date: 05/19/21

Name: Laurie Smith

Approved by: *LSmith*

Draft A, nov30-2017-8pts



Job #:
Performed by S Clarke-Johnson for:
 Welmers and Sons Heating and A/C
 59 Kirby Ave Unit 2
 Dundas, On L9H 6P3
 Phone: 905-628-3859 Fax: 905-627-5949

HVAC Design Services
 3215 Grassie Rd
 Grassie, On L0R 1M0
 Phone: 905-309-6444 Fax: 905-309-6333
 sandy.cj@live.com

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Heat loss and gain calculation summary sheet

CSA-F280-M12
Standard Form No. 1

These documents issued for the use of **HVAC Design Services** and may not be used by any other persons without authorization. Documents for permit and/or construction are signed in red.

Project no.



Hamilton

Building Division

Building location

Model:	Site:
Address: 688 Crooks Hollow Rd	Lot:
City and Province: Dundas On	Postal code:

Calculations based on

Dimensional information based on:	
Attachment: Detached	Front facing: West
Number of storeys: 1 + basement	Air tightness: Present (1961-) (ACH=3.67)
Weather location: Hamilton, ON, CA	Ventilated: Included
HRV?	Wind exposure: Heavy shielding
Recovery %: 0 %	Internal shading: (none)
	Units: Imperial (I-P)

Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.

Heating design conditions

Cooling design conditions

Outdoor temp: 1 °F	Indoor temp: 72 °F	Mean soil temp: 50 °F	Outdoor temp: 88 °F	Indoor temp: 75 °F
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Permit: 21104272 000 00 R9
Latitude: 43 °N Longitude: 79 °W
Date: 05/19/21
Assumed? Yes
Name: Laurie Smith
Approved by: *LSmith*

Above grade walls

Below grade walls

Style A: n,e,s,w - 3A12 (Frm wall, vnl ext, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud)	Style A: BCIN_2: Bsmnt, 8 ft BG, conc fndatn, wall R-20, flr unis HLR=4124 Btuh
Style B: n,e,s,w - 7A13 (Blk wall, 2"x4" wood int frm, 10" thk, r-19 cav ins)	Style B:
Style C:	Style C:
Style D:	Style D:

Floors on soil

Ceilings

Style A: BCIN_2: Bsmnt, 8 ft BG, conc fndatn, wall R-20, flr unis HLR=4124 Btuh	Style A: Attic ceiling, asphalt shingles roof mat, r-56 cell ins, 1/2" gypsum board int fnsh
Style B:	Style B:
Style C:	Style C:

Exposed floors

Doors

Style A: 15A17 (Fir floor, frm flr, 10" thkns, tile flr fnsh, r-30 cav ins, tight bsmt ovr)	Style A: n,s - 23G0 (Door, mtl fborgl type)
Style B:	Style B:
Style C:	Style C:

Windows

Skylights

Style A: n,s - 2 glazing, clr low-e outr, argon gas, insulated vinylfrm mat, clr innr, 1/2" gap, 1/8" thk; 6.67 ft head ht	Style A:
Style B:	Style B:
Style C:	Style C:
Style D:	Style D:

Attached documents:

Notes: 688 Crooks Hollow Rd
Dundas, On

Calculations performed by

Name:	S Clarke-Johnson
Company:	HVAC Design Services
Address:	3215 Grassie Rd
City and Province:	Grassie On
Postal code:	LOR 1M0
Telephone:	905-309-6444
Fax:	905-309-6333
E-mail:	sandy.cj@live.com



HRAI cert.#: 00195 (Loads,Ducts)



Draft A, nov-30-2017-8pts



Hamilton

Building Division

**Reviewed for Ontario
Building Code Compliance.**

Subject to Corrections Noted
on Plans and Field Inspections.

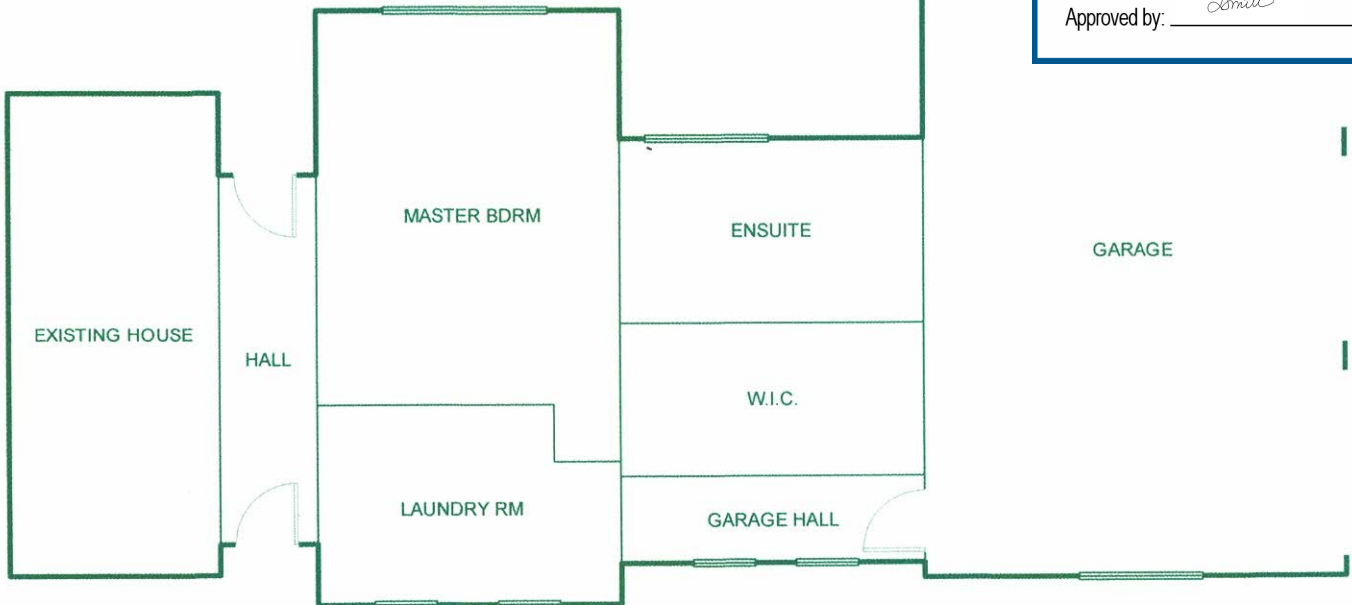
Permit: 21 104272 000 00 R9

Date: 05/19/21

Name: Laurie Smith

Approved by: *Smith*

First floor



Job #:
Performed by S Clarke-Johnson for:
Welmers and Sons Heating and A/C
59 Kirby Ave Unit 2
Dundas, On L9H 6P3
Phone: 905-628-3859 Fax: 905-627-5949

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