

Cert.#:  
 1599 Adelaide Street N. Unit 301, London, ON N5X 4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

### Project Information

For: Hill Farmhouse, Jason Hill  
 London, ON

### Design Information

	Htg	Clg		Infiltration
Outside db (°F)	0	86	Method	F280-12
Inside db (°F)	72	75	Exposure category	Light local shielding
Design TD (°F)	72	11	Construction category	Energy Tight (ACH=1.5)
Daily range	-	M	Number of stories	1.0
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	31	47		

#### HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
AHRI ref.	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

#### COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bedroom	209	1991	1556	57	74
Corridor	210	0	0	0	0
Bed #2	191	1888	1586	54	75
Bed #3	196	1849	1064	53	51
Bath	112	749	354	21	17
Bed #4	152	1705	723	48	34
Master WIC	64	610	163	17	8
Ensuite	92	549	405	16	19

2nd Floor	p	1228	9341	5851	266	278
Other equip loads			0	0		
Equip. @ 1.00 RSM				5851		
Latent cooling				1755		
TOTALS		1228	9341	7607	266	278

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Outside db (°F)	0	86	Method	F280-12
Inside db (°F)	72	75	Exposure category	Light local shielding
Design TD (°F)	72	11	Construction category	Energy Tight (ACH=1.5)
Daily range	-	M	Number of stories	1.0
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	31	47		

**HEATING EQUIPMENT**

Make	n/a
Trade	n/a
Model	n/a
AHRI ref.	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

**COOLING EQUIPMENT**

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Future Bathroom	140	1126	17	32	1
Unfinished 1	692	3589	692	102	33
Equipment Room	212	2264	52	64	2
Unfinished 2	328	2239	410	64	19
Entry	139	505	26	14	1
PWDR	50	856	348	24	17
Kitchen/Living	728	3459	7310	98	347
Great Room	207	1794	1362	51	65
Mudroom	141	1469	314	42	15
Office	161	1494	461	42	22

Basement&Ground	p	2798	18794	10993	534	522
Other equip loads			0	0		
Equip. @ 1.00 RSM				10993		
Latent cooling				3298		
TOTALS		2798	18794	14291	534	522

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**Project Information**

For: Hill Farmhouse, Jason Hill  
London, ON

**Design Conditions**

**Location:**

London, ON, CA  
Elevation: 912 ft  
Latitude: 43°N

**Outdoor:**

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

**Heating**

0  
-  
-  
11.8

**Cooling**

86  
18 ( M )  
75  
6.8

**Indoor:**

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

**Heating**

72  
72  
30  
30.6

**Cooling**

75  
11  
50  
47.0

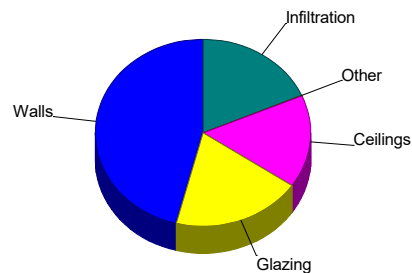
**Infiltration:**

Method  
Exposure category  
Construction category  
Number of stories

F280-12  
Light local shielding  
Energy Tight (ACH=1.5)  
1.0

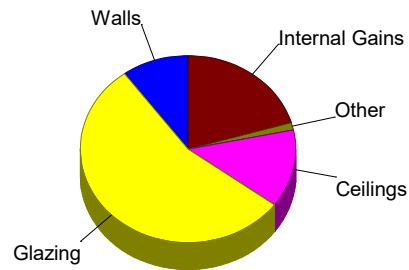
**Heating**

Component	Btuh/ft²	Btuh	% of load
Walls	4.2	4299	46.0
Glazing	10.9	1816	19.4
Doors	0	0	0
Ceilings	1.2	1501	16.1
Floors	2.4	5	0.1
Infiltration	10.3	1721	18.4
Ducts		0	0
Hydronic		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
<b>Total</b>		<b>9341</b>	<b>100.0</b>



**Cooling**

Component	Btuh/ft²	Btuh	% of load
Walls	0.6	586	10.0
Glazing	19.2	3208	54.8
Doors	0	0	0
Ceilings	0.6	788	13.5
Floors	0.4	1	0.0
Infiltration	0.4	73	1.3
Ducts		0	0
Ventilation		0	0
Internal gains		1195	20.4
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>5851</b>	<b>100.0</b>



Latent Cooling Load = 1755 Btuh  
Overall U-value = 0.043 Btuh/ft²-°F

Data entries checked.

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### Design Conditions

**Location:**

London, ON, CA  
Elevation: 912 ft  
Latitude: 43°N

**Outdoor:**

Dry bulb (°F)  
Daily range (°F)  
Wet bulb (°F)  
Wind speed (mph)

**Heating**

0  
-  
-  
11.8

**Cooling**

86  
18 ( M )  
75  
6.8

**Indoor:**

Indoor temperature (°F)  
Design TD (°F)  
Relative humidity (%)  
Moisture difference (gr/lb)

**Heating**

72  
72  
30  
30.6

**Cooling**

75  
11  
50  
47.0

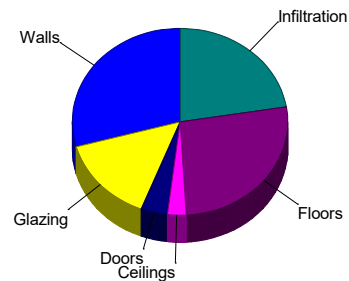
**Infiltration:**

Method  
Exposure category  
Construction category  
Number of stories

F280-12  
Light local shielding  
Energy Tight (ACH=1.5)  
1.0

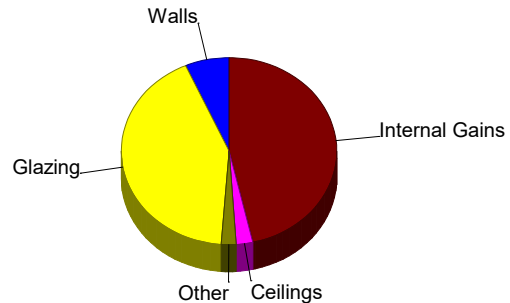
### Heating

Component	Btuh/ft²	Btuh	% of load
Walls	0.5	5501	29.3
Glazing	12.1	2789	14.8
Doors	9.2	751	4.0
Ceilings	2.6	524	2.8
Floors	3.5	5011	26.7
Infiltration	13.5	4218	22.4
Ducts		0	0
Hydronic		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
<b>Total</b>		<b>18794</b>	<b>100.0</b>



### Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.1	724	6.6
Glazing	20.1	4645	42.3
Doors	0.7	57	0.5
Ceilings	1.4	275	2.5
Floors	0.0	20	0.2
Infiltration	0.5	168	1.5
Ducts		0	0
Ventilation		0	0
Internal gains		5104	46.4
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>10993</b>	<b>100.0</b>



Latent Cooling Load = 3298 Btuh  
Overall U-value = 0.012 Btuh/ft²-°F

Data entries checked.

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For: Hill Farmhouse, Jason Hill  
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Notes: CAN/CSA F280-12  
 OBC 2012 - Package A2 (2017)

## Design Information

Weather: London, ON, CA

### Winter Design Conditions

Outside db	0 °F
Inside db	72 °F
Design TD	72 °F

### Summer Design Conditions

Outside db	86 °F
Inside db	75 °F
Design TD	11 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

### Heating Summary

Structure	9341 Btuh
Ducts	0 Btuh
Central vent (49 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	9341 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	5851 Btuh
Ducts	0 Btuh
Central vent (49 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	5851 Btuh

### Infiltration

Method	F280-12
Exposure category	Light local shielding
Const. categ.	Energy Tight (ACH=1.5)
Number of stories	1.0

### Latent Cooling Equipment Load Sizing

Structure	1755 Btuh
Ducts	0 Btuh
Central vent (49 cfm)	0 Btuh
Equipment latent load	1755 Btuh
<b>Equipment Total Load (Sen+Lat)</b>	<b>7607 Btuh</b>
Req. total capacity at 0.70 SHR	0.7 ton

	Heating	Cooling
Area (ft <sup>2</sup> )	1228	1228
Volume (ft <sup>3</sup> )	9943	9943
Air changes/hour	0.13	0.04
Equiv. AVF (cfm)	22	6

### Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref.	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

### Cooling Equipment Summary

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

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## Design Information

Weather: London, ON, CA

### Winter Design Conditions

Outside db	0 °F
Inside db	72 °F
Design TD	72 °F

### Summer Design Conditions

Outside db	86 °F
Inside db	75 °F
Design TD	11 °F
Daily range	M
Relative humidity	50 %
Moisture difference	47 gr/lb

### Heating Summary

Structure	18794 Btuh
Ducts	0 Btuh
Central vent (111 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	18794 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	10993 Btuh
Ducts	0 Btuh
Central vent (111 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	y
Rate/swing multiplier	1.00
Equipment sensible load	10993 Btuh

### Infiltration

Method	F280-12
Exposure category	Light local shielding
Const. categ.	Energy Tight (ACH=1.5)
Number of stories	1.0

	Heating	Cooling
Area (ft <sup>2</sup> )	2798	2798
Volume (ft <sup>3</sup> )	24361	24361
Air changes/hour	0.13	0.03
Equiv. AVF (cfm)	54	14

### Latent Cooling Equipment Load Sizing

Structure	3298 Btuh
Ducts	0 Btuh
Central vent (111 cfm)	0 Btuh
Equipment latent load	3298 Btuh
<b>Equipment Total Load (Sen+Lat)</b>	<b>14291 Btuh</b>
Req. total capacity at 0.70 SHR	1.3 ton

### Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref.	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	n/a

### Cooling Equipment Summary

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



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1	Room name				2nd Floor				Master Bedroom				Corridor					
	Exposed wall				145.5 ft				30.9 ft				7.3 ft					
	Room dimensions				8.1 ft p				8.1 ft 14.8 x 14.2 ft heat/cool				8.1 ft 1.0 x 210.1 ft heat/cool					
4	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	Zone 1-	17.03	n	4.3	0.2	308	258	1095	63	119	98	416	24	0	0	0	0
	W	Zone 1-	6.67	n	10.9	10.5	50	0	545	527	22	0	233	226	0	0	0	0
	W	Zone 1-	20.84	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	23G0	7.86	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	e	4.3	0.8	281	231	984	191	115	95	403	78	0	0	0	0
	W	Zone 1-	6.67	e	10.9	28.8	50	0	543	1438	20	0	217	575	0	0	0	0
	W	Zone 1-	20.84	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	3.70	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	s	4.3	0.4	308	241	1024	100	0	0	0	0	0	0	0	0
	W	Zone 1-	6.67	s	10.9	18.6	67	0	728	1244	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	3.70	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	23G0	7.86	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	w	4.3	0.8	281	281	1196	232	16	16	69	13	59	59	252	49
	W	Zone 1-	20.84	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Zone 1-	59.21	-	1.2	0.6	1228	1228	1501	788	209	209	256	134	210	210	257	135
	C	Zone 1-	27.65	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	2.4	0.4	2	2	5	1	0	0	1	0	0	0	0	0
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								7621	4583			1595	1050			509	184
7	a) Infiltration								1721	73			360	17			115	3
	b) Ventilation								0	0			0	0			0	0
8	Internal gains: People@ Electric/Appliances					239		5		1195		2		478		0		0
	Subtotal (lines 6 to 8)								9341	5851			1955	1545			624	187
9	Less external load								0	0			0	0			0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								9341	5851			1991	1556			0	0
12	Distribution losses						0%	0%	0	0	0%	0%	0	0	0%	0%	0	0
	Redistribution								0	0			36	11			-624	-187
13	Total room load								9341	5851			1991	1556			0	0
14	Air required (cfm)								266	278			57	74			0	0

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1	Room name				Bed #2 27.9 ft				Bed #3 28.1 ft				Bath 9.3 ft					
	Exposed wall				1.0 x 191.0 ft				13.0 x 15.1 ft				1.0 x 112.2 ft					
	Room dimensions				8.1 ft heat/cool				8.1 ft heat/cool				8.1 ft heat/cool					
2	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)	
3					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
4	Room height																	
5	W	Zone 1-	17.03	n	4.3	0.2	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	n	10.9	10.5	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	D	23G0	7.86	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	e	4.3	0.8	99	79	334	65	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	e	10.9	28.8	20	0	217	575	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	3.70	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	s	4.3	0.4	128	100	425	41	105	78	331	32	75	63	267	26
	G	Zone 1-	6.67	s	10.9	18.6	28	0	299	511	28	0	299	511	12	0	130	223
	W	Zone 1-	20.84	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	3.70	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	D	23G0	7.86	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	w	4.3	0.8	0	0	0	0	122	122	519	101	0	0	0	0
	W	Zone 1-	20.84	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Zone 1-	59.21	-	1.2	0.6	191	191	234	123	196	196	240	126	112	112	137	72
	C	Zone 1-	27.65	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	2.4	0.4	0	0	0	1	1	2	0	0	0	0	0	0
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								1509	1314			1390	770			535	321
7	a) Infiltration								341	21			314	12			121	5
	b) Ventilation								0	0			0	0			0	0
8	Internal gains: People@ Electric/Appliances					239		1	239	0		1	239	0		0	0	0
	Subtotal (lines 6 to 8)								1849	1575			1704	1021			656	326
9	Less external load								0	0			0	0			0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								1888	1586			1849	1064			749	354
12	Distribution losses						0%	0%	0	0		0%	0%	0	0		0	0
	Redistribution								39	12			145	43			93	28
13	Total room load								1888	1586			1849	1064			749	354
14	Air required (cfm)								54	75			53	51			21	17

Cert#: 1599 Adelaide Street N. Unit 301, London, ON N5X 4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

1	Room name				Bed #4				Master WIC				Ensuite					
	Exposed wall				27.1 ft				8.5 ft				6.4 ft					
	Room dimensions				14.8 x 10.3 ft				1.0 x 6.4 ft				1.0 x 92.3 ft					
4	Room height				8.1 ft				heat/cool				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	Zone 1-	17.03	n	4.3	0.2	119	98	416	24	69	62	262	15	0	0	0	0
	G	Zone 1-	6.67	n	10.9	10.5	22	0	233	226	7	0	78	76	0	0	0	0
	W	Zone 1-	20.84	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	D	23G0	7.86	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	e	4.3	0.8	16	16	69	13	0	0	0	0	52	42	178	35
	G	Zone 1-	6.67	e	10.9	28.8	0	0	0	0	0	0	0	0	10	0	109	288
	W	Zone 1-	20.84	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	3.70	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	s	4.3	0.4	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	s	10.9	18.6	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	3.70	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	D	23G0	7.86	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	w	4.3	0.8	84	84	356	69	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Zone 1-	59.21	-	1.2	0.6	152	152	186	98	64	64	79	41	92	92	113	59
	C	Zone 1-	27.65	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	2.4	0.4	1	1	3	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								1264	430			419	132			400	381
7	a) Infiltration								285	7			95	2			90	6
	b) Ventilation								0	0			0	0			0	0
8	Internal gains: People@ Electric/Appliances					239		1	239	0		0	0	0		0	0	0
	Subtotal (lines 6 to 8)								1549	676			514	134			490	388
9	Less external load								0	0			0	0			0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								1705	723			610	163			549	405
12	Distribution losses								0	0			0	0			0	0
	Ducts					0%	0%		0	0		0%	0%	0	0		0	0
	Hydronic					0%	0%		0	0		0%	0%	0	0		0	0
	Redistribution								156	47			97	29			59	18
13	Total room load								1705	723			610	163			549	405
14	Air required (cfm)								48	34			17	8			16	19

# Right-F280™ Worksheet Basement&Ground Strik Baldinelli Moniz Ltd.

Job: SBM-20-1890  
Date: July 13, 2020  
By: KCM

Cert#: 1599 Adelaide Street N. Unit 301, London, ON N5X 4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

1	Room name				Basement&Ground				Future Bathroom				Unfinished 1					
	Exposed wall				325.8 ft				21.8 ft				58.5 ft					
	Room dimensions				8.7 ft p				14.2 x 9.9 ft heat/cool				37.4 x 18.5 ft heat/cool					
4	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	Zone 1-1	17.03	n	0.0	0.0	0	0	0	0	0	0	0
	G	Zone 1-1	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-1	20.84	n	3.5	0.2	101	101	350	20	30	30	103	6	0	0	0	0
	W	Zone 1-1	20.32	n	3.6	0.2	431	326	1160	67	0	0	0	0	0	0	0	0
	G	Zone 1-1	6.67	n	10.9	10.5	62	0	673	651	0	0	0	0	0	0	0	0
	D	23G0	7.86	n	9.2	0.5	43	43	397	23	0	0	0	0	0	0	0	0
	W	Zone 1-1	17.03	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-1	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-1	20.84	e	3.5	0.7	77	56	193	38	4	4	15	3	44	34	117	23
	G	Zone 1-1	3.70	e	19.5	34.6	22	0	422	747	0	0	0	0	11	0	211	374
	W	Zone 1-1	20.32	e	3.6	0.7	317	271	965	187	0	0	0	0	0	0	0	0
	G	Zone 1-1	6.67	e	10.9	28.8	46	0	500	1323	0	0	0	0	0	0	0	0
	W	Zone 1-1	17.03	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-1	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-1	20.84	s	3.5	0.3	112	101	351	34	0	0	0	0	90	79	274	27
	G	Zone 1-1	3.70	s	19.5	22.7	11	0	211	245	0	0	0	0	11	0	211	245
	W	Zone 1-1	20.32	s	3.6	0.3	431	302	1075	105	0	0	0	0	0	0	0	0
	G	Zone 1-1	6.67	s	10.9	18.6	90	0	982	1679	0	0	0	0	0	0	0	0
	D	23G0	7.86	s	9.2	0.9	39	39	355	35	0	0	0	0	0	0	0	0
	W	Zone 1-1	17.03	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-1	20.84	w	3.5	0.7	80	80	277	54	12	12	41	8	6	6	22	4
	W	Zone 1-1	20.32	w	3.6	0.7	317	317	1129	219	0	0	0	0	0	0	0	0
	C	Zone 1-1	59.21	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Zone 1-1	27.65	-	2.6	1.4	200	200	524	275	0	0	0	0	0	0	0	0
	F	BCIN_1	n/a	-	n/a	0.0	1373	1373	4882	0	140	140	657	0	692	692	1768	0
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	2.4	0.4	53	53	129	20	0	0	0	0	0	0	0	0
6	Total conductive loss/gain								14576	5721			816	17			2603	672
7	a) Infiltration								4218	168			309	0			985	20
	b) Ventilation								0	0			0	0			0	0
8	Internal gains: People@ Electric/Appliances 239							0	0	5104		0	0	0		0	0	0
	Subtotal (lines 6 to 8)								18794	10993			1126	17			3589	692
9	Less external load								0	0			0	0			0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								18794	10993			1126	17			3589	692
12	Distribution losses						0%	0%	0	0			0	0			0	0
	Redistribution								0	0			0	0			0	0
13	Total room load								18794	10993			1126	17			3589	692
14	Air required (cfm)								534	522			32	1			102	33

# Right-F280™ Worksheet Basement&Ground Strik Baldinelli Moniz Ltd.

Job: SBM-20-1890  
Date: July 13, 2020  
By: KCM

Cert#: 1599 Adelaide Street N. Unit 301, London, ON N5X 4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

1	Room name				Equipment Room				Unfinished 2				Entry						
	Exposed wall				42.6 ft				38.7 ft				8.8 ft						
	Room dimensions				1.0 x 211.8 ft				1.0 x 328.0 ft				1.0 x 138.7 ft						
4	Room height				8.4 ft				8.1 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	Zone 1-	17.03	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	G	Zone 1-	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	20.84	n	3.5	0.2	23	23	79	5	48	48	168	10	0	0	0	0	
	W	Zone 1-	20.32	n	3.6	0.2	0	0	0	0	0	0	0	0	80	58	207	12	
	G	Zone 1-	6.67	n	10.9	10.5	0	0	0	0	0	0	0	0	0	0	0	0	
	D	23G0	7.86	n	9.2	0.5	0	0	0	0	0	0	0	0	22	22	198	11	
	W	Zone 1-	17.03	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	G	Zone 1-	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	20.84	e	3.5	0.7	0	0	0	0	29	18	62	12	0	0	0	0	
	G	Zone 1-	3.70	e	19.5	34.6	0	0	0	0	11	0	211	374	0	0	0	0	
	W	Zone 1-	20.32	e	3.6	0.7	0	0	0	0	0	0	0	0	0	0	0	0	
	G	Zone 1-	6.67	e	10.9	28.8	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	17.03	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	G	Zone 1-	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	20.84	s	3.5	0.3	22	22	76	7	0	0	0	0	0	0	0	0	
	G	Zone 1-	3.70	s	19.5	22.7	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	20.32	s	3.6	0.3	0	0	0	0	0	0	0	0	0	0	0	0	
	G	Zone 1-	6.67	s	10.9	18.6	0	0	0	0	0	0	0	0	0	0	0	0	
	D	23G0	7.86	s	9.2	0.9	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	17.03	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	W	Zone 1-	20.84	w	3.5	0.7	58	58	200	39	4	4	15	3	0	0	0	0	
	W	Zone 1-	20.32	w	3.6	0.7	0	0	0	0	0	0	0	0	0	0	0	0	
	C	Zone 1-	59.21	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	C	Zone 1-	27.65	-	2.6	1.4	0	0	0	0	0	0	0	0	1	1	2	1	
	F	BCIN_1	n/a	-	n/a	0.0	212	212	1287	0	328	328	1169	0	0	0	0	0	
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	F	Zone1-A	29.80	-	2.4	0.4	0	0	0	0	0	0	0	0	4	4	9	1	
6	Total conductive loss/gain								1642	51			1624	398			416	26	
7	a) Infiltration								622	1			615	12			89	1	
	b) Ventilation								0	0			0	0			0	0	
8	Internal gains: People@ Electric/Appliances					239		0		0		0		0		0		0	
	Subtotal (lines 6 to 8)								2264	52			2239	410			505	26	
9	Less external load								0	0			0	0			0	0	
10	Less transfer								0	0			0	0			0	0	
11	Subtotal								2264	52			2239	410			505	26	
12	Distribution losses						0%	0%	0	0		0%	0%	0	0	0%	0%	0	0
	Redistribution								0	0			0	0			0	0	
13	Total room load								2264	52			2239	410			505	26	
14	Air required (cfm)								64	2			64	19			14	1	

# Right-F280™ Worksheet Basement&Ground Strik Baldinelli Moniz Ltd.

Job: SBM-20-1890  
Date: July 13, 2020  
By: KCM

Cert#: 1599 Adelaide Street N. Unit 301, London, ON N5X 4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

1	Room name				PWDR				Kitchen/Living				Great Room					
	Exposed wall				14.8 ft				58.9 ft				30.8 ft					
	Room dimensions				9.6 x 5.3 ft				1.0 x 727.7 ft				14.6 x 14.2 ft					
4	Room height				9.1 ft				heat/cool				9.1 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	Zone 1-	17.03	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	n	3.5	0.2	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	n	3.6	0.2	0	0	0	0	0	0	0	0	133	102	362	21
	G	Zone 1-	6.67	n	10.9	10.5	0	0	0	0	0	0	0	0	31	0	337	325
	D	23G0	7.86	n	9.2	0.5	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	17.03	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	e	3.5	0.7	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	3.70	e	19.5	34.6	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	e	3.6	0.7	0	0	0	0	170	155	552	107	129	98	349	68
	G	Zone 1-	6.67	e	10.9	28.8	0	0	0	0	15	0	163	431	31	0	337	891
	W	Zone 1-	17.03	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	s	3.5	0.3	0	0	0	0	0	0	0	0	0	0	0	0
	G	Zone 1-	3.70	s	19.5	22.7	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	s	3.6	0.3	87	76	271	26	344	226	804	78	0	0	0	0
	G	Zone 1-	6.67	s	10.9	18.6	11	0	122	209	79	0	860	1470	0	0	0	0
	D	23G0	7.86	s	9.2	0.9	0	0	0	0	39	355	35	0	0	0	0	0
	W	Zone 1-	17.03	w	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.84	w	3.5	0.7	0	0	0	0	0	0	0	0	0	0	0	0
	W	Zone 1-	20.32	w	3.6	0.7	48	48	170	33	23	23	81	16	18	18	65	13
	C	Zone 1-	59.21	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Zone 1-	27.65	-	2.6	1.4	49	49	128	67	0	0	0	0	1	1	3	2
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	F	Zone1-A	29.80	-	2.4	0.4	6	6	14	2	14	14	35	5	10	10	25	4
6	Total conductive loss/gain								705	338			2850	2143			1478	1323
7	a) Infiltration								151	10			609	63			316	39
	b) Ventilation								0	0			0	0			0	0
8	Internal gains: People@ Electric/Appliances					239		0	0	0		0	0	5104		0	0	0
	Subtotal (lines 6 to 8)								856	348			3459	7310			1794	1362
9	Less external load								0	0			0	0			0	0
10	Less transfer								0	0			0	0			0	0
11	Subtotal								856	348			3459	7310			1794	1362
12	Distribution losses						0%	0%	0	0	0%	0%	0	0	0%	0%	0	0
	Redistribution								0	0			0	0			0	0
13	Total room load								856	348			3459	7310			1794	1362
14	Air required (cfm)								24	17			98	347			51	65

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1	Room name				Mudroom 21.8 ft				Office 29.3 ft									
	Exposed wall				9.6 x 14.8 ft				1.0 x 160.9 ft									
	Room dimensions				9.1 ft heat/cool				9.1 ft heat/cool									
4	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	Gross	N/P/S	Heat	Cool
5	W	Zone 1-	17.03	n	0.0	0.0	0	0	0	0	0	0	0	0				
	G	Zone 1-	6.67	n	0.0	0.0	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.84	n	3.5	0.2	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.32	n	3.6	0.2	64	43	153	9	154	123	438	25				
	G	Zone 1-	6.67	n	10.9	10.5	0	0	0	0	0	0	337	325				
	D	23G0	7.86	n	9.2	0.5	22	22	198	11	0	0	0	0				
	W	Zone 1-	17.03	e	0.0	0.0	0	0	0	0	0	0	0	0				
	G	Zone 1-	6.67	e	0.0	0.0	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.84	e	3.5	0.7	0	0	0	0	0	0	0	0				
	G	Zone 1-	3.70	e	19.5	34.6	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.32	e	3.6	0.7	0	0	0	0	18	18	65	13				
	G	Zone 1-	6.67	e	10.9	28.8	0	0	0	0	0	0	0	0				
	W	Zone 1-	17.03	s	0.0	0.0	0	0	0	0	0	0	0	0				
	G	Zone 1-	6.67	s	0.0	0.0	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.84	s	3.5	0.3	0	0	0	0	0	0	0	0				
	G	Zone 1-	3.70	s	19.5	22.7	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.32	s	3.6	0.3	0	0	0	0	0	0	0	0				
	G	Zone 1-	6.67	s	10.9	18.6	0	0	0	0	0	0	0	0				
	D	23G0	7.86	s	9.2	0.9	0	0	0	0	0	0	0	0				
	W	Zone 1-	17.03	w	0.0	0.0	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.84	w	3.5	0.7	0	0	0	0	0	0	0	0				
	W	Zone 1-	20.32	w	3.6	0.7	134	134	478	93	94	94	335	65				
	C	Zone 1-	59.21	-	0.0	0.0	0	0	0	0	0	0	0	0				
	C	Zone 1-	27.65	-	2.6	1.4	138	138	360	189	12	12	30	16				
	F	BCIN_1	n/a	-	n/a	0.0	0	0	0	0	0	0	0	0				
	F	Zone1-A	29.80	-	0.0	0.0	0	0	0	0	0	0	0	0				
	F	Zone1-A	29.80	-	2.4	0.4	9	9	21	3	11	11	26	4				
6	Total conductive loss/gain								1211	305			1231	448				
7	a) Infiltration								259	9			263	13				
	b) Ventilation								0	0			0	0				
8	Internal gains: People@ Electric/Appliances					239		0		0		0		0				
	Subtotal (lines 6 to 8)								1469	314			1494	461				
9	Less external load								0	0			0	0				
10	Less transfer								0	0			0	0				
11	Subtotal								1469	314			1494	461				
12	Distribution losses						0%	0%	0	0	0%	0%	0	0				
	Redistribution								0	0			0	0				
13	Total room load								1469	314			1494	461				
14	Air required (cfm)								42	15			42	22				

Cert.#:

1599 Adelaide Street N. Unit 301, London, ON N5X4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

## Project Information

For: Hill Farmhouse, Jason Hill  
 London, ON

## Design Conditions

House type	Detached
Site	Suburban, forest
Wall shielding	Light local shielding
Storeys	1.0 (w/o basement)
Highest ceiling height (ft)	18.2
Foundation	Full

## Air Leakage

Air tightness Energy Tight (ACH=1.5)

## Flues

Shielding	Light local shielding			
	#1	#2	#3	#4
Diameter (in)	6	0	0	0

## Summary

### Heating

Infiltration area	1228 ft <sup>2</sup>
Infiltration volume	9943 ft <sup>3</sup>
Unadjusted air change rate	0.133 ach
Unadjusted AVF	22 cfm
Vent adjustment	0 cfm
Net AVF	22 cfm
Net air change rate	0.133 ach

### Cooling

Infiltration area	1228 ft <sup>2</sup>
Infiltration volume	9943 ft <sup>3</sup>
Unadjusted air change rate	0.037 ach
Unadjusted AVF	6 cfm
Vent adjustment	0 cfm
Net AVF	6 cfm
Net air change rate	0.037 ach



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Room Name	Level Factor	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bedroom	1.00	360	17	5	1
Corridor	1.00	115	3	1	0
Bed #2	1.00	341	21	4	2
Bed #3	1.00	314	12	4	1
Bath	1.00	121	5	2	0
Bed #4	1.00	285	7	4	1
Master WIC	1.00	95	2	1	0
Ensuite	1.00	90	6	1	1
2nd Floor	0	1721	73	22	6

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## Project Information

For: Hill Farmhouse, Jason Hill  
 London, ON

## Design Conditions

House type	Detached
Site	Suburban, forest
Wall shielding	Light local shielding
Storeys	1.0 (w/o basement)
Highest ceiling height (ft)	9.1
Foundation	Full

## Air Leakage

Air tightness Energy Tight (ACH=1.5)

## Flues

Shielding	Light local shielding			
	#1	#2	#3	#4
Diameter (in)	6	0	0	0

## Summary

Heating		Cooling	
Infiltration area	2798 ft <sup>2</sup>	Infiltration area	2798 ft <sup>2</sup>
Infiltration volume	24361 ft <sup>3</sup>	Infiltration volume	24361 ft <sup>3</sup>
Unadjusted air change rate	0.133 ach	Unadjusted air change rate	0.035 ach
Unadjusted AVF	54 cfm	Unadjusted AVF	14 cfm
Vent adjustment	0 cfm	Vent adjustment	0 cfm
Net AVF	54 cfm	Net AVF	14 cfm
Net air change rate	0.133 ach	Net air change rate	0.035 ach

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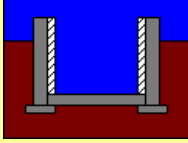
Room Name	Level Factor	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Future Bathroom	0.60	309	0	4	0
Unfinished 1	0.60	985	20	13	2
Equipment Room	0.60	622	1	8	0
Unfinished 2	0.60	615	12	8	1
Entry	0.40	89	1	1	0
PWDR	0.40	151	10	2	1
Kitchen/Living	0.40	609	63	8	5
Great Room	0.40	316	39	4	3
Mudroom	0.40	259	9	3	1
Office	0.40	263	13	3	1
Basement&Ground	0	4218	168	54	14

Cert.#:  
 1599 Adelaide Street N. Unit 301, London, ON N5X4E8 Phone: 519-471-6667 Email: sbm@sbnltd.ca

**Project Information**

For: Hill Farmhouse, Jason Hill  
 London, ON

Weather Station	
Province Region	ON London
Foundation Dimensions	
Floor length (ft)	56.4
Floor width (ft)	24.3
Exposed perimeter (ft)	161.5
Wall height (ft)	8.3
Depth below grade (ft)	6.0
Window area (ft <sup>2</sup> )	32.4
Door area (ft <sup>2</sup> )	0
Radiant Slab	
Heated fraction	0
Design Months	
Heating month	1
Foundation Loads	
Heating load (Btuh)	4882

Site	
Soil conductivity Water table	Normal - dry sand, loam, clay Normal (23-33 ft)
Insulation Configuration	
Configuration	BCIN_1
Int wall insul (ft <sup>2</sup> -°F/Btuh)	10.00
	
<ul style="list-style-type: none"> <li>- concrete walls and floor</li> <li>- interior surface of wall insulated over full-height</li> <li>- any first storey construction type</li> </ul>	

**Load Allocation**

Room	Exposed perimeter (ft)	Heating load (Btuh)
Future Bathroom	21.8	657
Unfinished 1	58.5	1768
Equipment Room	42.6	1287
Unfinished 2	38.7	1169

## Strik Baldinelli Moniz Ltd.

Cert.#:

1599 Adelaide Street N. Unit 301, London, ON N5X4E8 Phone: 519-471-6667 Email: sbm@sbmltd.ca

### Project Information

For: Hill Farmhouse, Jason Hill  
London, ON

### Attach PhotoCopy of your HRAI/SkillTech Certification Card

Note	Applies	Instructions – Check All Applicable Notes for this Project
1	<input type="checkbox"/>	Mechanical Drawings shall be read in conjunction with architectural drawings and specifications.
2	<input type="checkbox"/>	H.R.V. shall be installed to manufacturer's installation instructions. The condensate drain shall discharge to a hub drain or lead to a condensate pump.
3	<input type="checkbox"/>	Provide mechanical exhaust in each kitchen, bathroom, and two piece washroom.
4	<input type="checkbox"/>	Return air system to be unobstructed and capable of returning the entire air supply.
5	<input type="checkbox"/>	All branch outlets shall be equipped with a volume control damper at the boot or a lockable diffuser.
6	<input type="checkbox"/>	All basement supply outlets shall be located within 4' 0" of any outside wall.
7	<input type="checkbox"/>	All supply and return ducts exposed to an unheated space shall be insulated with R-12 insulation complete with vapour barrier.
8	<input type="checkbox"/>	All exhaust ducts exposed to an unheated space shall be insulated with a minimum of R-3 insulation complete with a vapour barrier.
9	<input type="checkbox"/>	Supply duct carrying outdoor air within a heated space shall be insulated with R-3 insulation and if the duct exceeds 3m (9' 10") in length, R-7 insulation is required.
10	<input type="checkbox"/>	Ventilation and supply air fan switches shall be centrally located and so identified.
11	<input type="checkbox"/>	Provide a 3/4" minimum clear undercut of all doors for the return air from all rooms where there is no direct return from these rooms.
12	<input type="checkbox"/>	Carbon Monoxide Detectors shall be installed in accordance with the provisions of the applicable building code for fuel burning appliance and storage garage in residential occupancy.
13	<input type="checkbox"/>	Do not cover any ductwork and piping prior to inspection.
14	<input type="checkbox"/>	Combo units shall have a warning label affixed by the installer as per requirements of HRAI Unified Canadian Guideline for Integrated (Combo) heating systems.