

# Building Analysis

## Entire House

### Project Information

For: Thornton, NH 03285

### Design Conditions

#### Location:

Lebanon Municipal, NH, US  
Elevation: 598 ft  
Latitude: 44°N

#### Outdoor:

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

#### Heating

**-18**  
-  
-  
15.0

#### Cooling

86  
23 ( M )  
70  
7.5

#### Indoor:

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

#### Heating

70  
88  
50  
54.3

#### Cooling

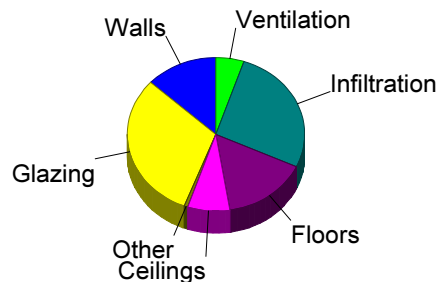
75  
11  
50  
19.2

#### Infiltration:

Method: Blower door  
Shielding / stories: 3 (partial) / 2  
Pressure /ACH /AVF: 50 Pa / 3.0 / 1242 cfm

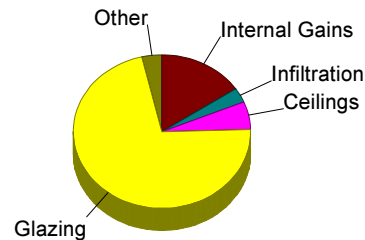
### Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.2	6717	13.2
Glazing	19.2	15779	31.0
Doors	15.8	333	0.7
Ceilings	1.7	3935	7.7
Floors	4.9	7915	15.5
Infiltration	4.6	13689	26.9
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		2583	5.1
Adjustments		0	0
<b>Total</b>		<b>50950</b>	<b>100.0</b>



### Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.2	443	2.0
Glazing	19.7	16206	71.8
Doors	3.8	79	0.3
Ceilings	0.6	1315	5.8
Floors	0	0	0
Infiltration	0.2	698	3.1
Ducts		0	0
Ventilation		314	1.4
Internal gains		3520	15.6
Blower		0	0
Adjustments		0	0
<b>Total</b>		<b>22575</b>	<b>100.0</b>



Latent Cooling Load = 1923 Btuh  
Overall U-value = 0.058 Btuh/ft²-°F

WARNING: window to floor area ratio = 33.9% - more than 25%.

*Bold/italic values have been manually overridden*

# Load Short Form Entire House

## Project Information

For: hornton, NH 03285

## Design Information

	Htg	Clg		Infiltration
Outside db (°F)	<b>-18</b>	86	Method	Blower door
Inside db (°F)	70	75	Shielding / stories	3 (partial) / 2
Design TD (°F)	88	11	Pressure /ACH /AVF	50 Pa / 3.0 / 1242 cfm
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	54	19		

### HEATING EQUIPMENT

Make	
Trade	
Model	
AHRI ref	
Efficiency	95 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	1034 cfm
Air flow factor	0.021 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

### COOLING EQUIPMENT

Make	
Trade	
Cond	
Coil	
AHRI ref	
Efficiency	14 SEER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1034 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.92

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
1 Bath 1	100	1343	422	29	20
1 Bath 2	76	1197	64	26	3
1 Bed 2	159	4158	1906	89	89
1 Bunk Rm	101	3101	1124	66	52
1 Closet	76	0	0	0	0
1 Dining	165	8351	4402	179	204
1 Hall	114	1444	983	31	46
1 Kitchen	200	3927	2934	84	136
1 Living	245	4485	3288	96	153
1 Mudroom	185	4131	1087	88	51
1 Primary Bed	196	9471	4668	202	217
2 Loft	360	3164	714	68	33
2 Mech Loft	450	3596	671	77	31

*Bold/italic values have been manually overridden*

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Entire House	2426	48367	22261	1034	1034
Other equip loads		2583	314		
Equip. @ 0.91 RSM			20476		
Latent cooling			1923		
<b>TOTALS</b>	<b>2426</b>	<b>50950</b>	<b>22399</b>	<b>1034</b>	<b>1034</b>

*Bold/italic values have been manually overridden*

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

# Right-J® Worksheet

## Entire House

Dat  
By:  
Plan:

1 Room name		Entire House							1 Bath 1					
2 Exposed wall		369.0 ft							9.8 ft					
3 Room height		10.2 ft							10.0 ft					
4 Room dimensions		2426.2 ft²							10.3 x 9.8 ft					
5 Room area		2426.2 ft²							99.9 ft²					
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	468	404	1291	85	0	0	0	0
	G	U18 S35	0.180	ne	15.84	17.00	39	0	610	655	0	0	0	0
	G	U27 S47	0.270	ne	23.76	22.16	25	0	594	554	0	0	0	0
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	1005	594	1898	125	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	64	36	1014	842	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	63	35	993	824	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	56	32	887	736	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	63	35	993	824	0	0	0	0
	G	U27 S47	0.270	se	23.76	8.05	4	4	95	32	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	106	0	2519	3088	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	56	0	1331	1632	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	468	401	1282	84	98	88	281	19
	G	U27 S47	0.270	sw	23.76	29.14	35	0	824	1010	10	0	230	282
	G	U27 S47	0.270	sw	23.76	27.61	11	1	257	298	0	0	0	0
	D	Door U18	0.180	sw	15.84	3.76	21	21	333	79	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	1005	703	2246	148	0	0	0	0
	G	U18 S35	0.180	nw	15.84	17.00	192	0	3041	3265	0	0	0	0
	G	U27 S47	0.270	nw	23.76	22.16	110	0	2623	2446	0	0	0	0
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	2284	2284	3935	1315	0	0	0	0
	F	22D-5wpm	0.442	-	38.90	0.00	1616	204	7915	0	100	10	379	0
6	c) AED excursion									0				99
	Envelope loss/gain								34679	18043			890	399
12	a) Infiltration								13689	698			453	23
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			4			920	0			0
			Appliances/other							2600				0
	Subtotal (lines 6 to 13)								48367	22261			1343	422
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								48367	22261			1343	422
15	Duct loads							0%	0	0	-0%	0%	0	0
	Total room load								48367	22261			1343	422
	Air required (cfm)								1034	1034			29	20

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

# Right-J® Worksheet Entire House

Job:  
Date:  
By:  
Plan:

				1 Bath 2 9.5 ft heat/cool				1 Bed 2 25.3 ft heat/cool						
				10.0 ft 9.5 x 8.0 ft				10.0 ft 13.0 x 12.3 ft						
				76.0 ft²				159.3 ft²						
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	0	0	0	0	123	84	268	18
	G	U18 S35	0.180	ne	15.84	17.00	0	0	0	0	39	0	610	655
	G	U27 S47	0.270	ne	23.76	22.16	0	0	0	0	0	0	0	0
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	95	91	291	19	130	74	237	16
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	56	32	887	736
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	8.05	4	4	95	32	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	sw	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	sw	23.76	27.61	0	0	0	0	0	0	0	0
	D	Door U18	0.180	sw	15.84	3.76	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	nw	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	nw	23.76	22.16	0	0	0	0	0	0	0	0
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	0	0	0	0	0	0	0	0
	F	22D-5wpm	0.442	-	38.90	0.00	76	10	370	0	159	25	982	0
6	c) AED excursion													421
	Envelope loss/gain								755	41			2984	1846
12	a) Infiltration								442	23			1174	60
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								1197	64			4158	1906
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1197	64			4158	1906
15	Duct loads								-0%	0%			0	0
	Total room load								1197	64			4158	1906
	Air required (cfm)								26	3			89	89

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

# Right-J® Worksheet Entire House

Job:  
Date:  
By:  
Plan:

1 Room name				1 Bunk Rm 20.8 ft				1 Closet 0 ft						
2 Exposed wall				10.0 ft                      heat/cool				10.0 ft                      heat/cool						
3 Room height				13.0 x 7.8 ft				7.8 x 9.8 ft						
4 Room dimensions				100.8 ft²				75.6 ft²						
5 Room area														
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	78	78	248	16	0	0	0	0
	G	U18 S35	0.180	ne	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	ne	23.76	22.16	0	0	0	0	0	0	0	0
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	8.05	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	sw	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	sw	23.76	27.61	0	0	0	0	0	0	0	0
	D	Door U18	0.180	sw	15.84	3.76	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	130	98	312	21	0	0	0	0
	G	U18 S35	0.180	nw	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	nw	23.76	22.16	32	0	770	718	0	0	0	0
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	0	0	0	0	0	0	0	0
	F	22D-5wpm	0.442	-	38.90	0.00	101	21	807	0	76	0	0	0
6	c) AED excursion									320				0
	Envelope loss/gain								2137	1074			0	0
12	a) Infiltration								964	49			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								3101	1124			0	0
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3101	1124			0	0
15	Duct loads								0	0			0	0
	Total room load								3101	1124			0	0
	Air required (cfm)								66	52			0	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

# Right-J® Worksheet

Job:  
Date:  
By:  
Plan:

		1 Dining 61.0 ft 18.0 ft 8.3 x 20.0 ft 165.0 ft <sup>2</sup>							1 Hall 9.5 ft 10.0 ft 9.5 x 12.0 ft 114.0 ft <sup>2</sup>						
	Ty	Construction number	U-value (Btuh/ft <sup>2</sup> ·°F)	Or	HTM (Btuh/ft <sup>2</sup> )		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	0	0	0	0	0	0	0	0	
	G	U18 S35	0.180	ne	15.84	17.00	0	0	0	0	0	0	0	0	
	G	U27 S47	0.270	ne	23.76	22.16	0	0	0	0	0	0	0	0	
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	174	65	209	14	0	0	0	0	
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0	
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0	
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0	
	G	U18 S35	0.180	se	15.84	13.15	63	35	993	824	0	0	0	0	
	G	U27 S47	0.270	se	23.76	8.05	0	0	0	0	0	0	0	0	
	G	U27 S47	0.270	se	23.76	29.14	46	0	1093	1340	0	0	0	0	
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0	
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	0	0	0	0	0	0	0	0	
	G	U27 S47	0.270	sw	23.76	29.14	0	0	0	0	0	0	0	0	
	G	U27 S47	0.270	sw	23.76	27.61	0	0	0	0	0	0	0	0	
	D	Door U18	0.180	sw	15.84	3.76	0	0	0	0	0	0	0	0	
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	174	64	205	13	95	79	252	17	
	G	U18 S35	0.180	nw	15.84	17.00	64	0	1014	1088	0	0	0	0	
	G	U27 S47	0.270	nw	23.76	22.16	46	0	1093	1019	16	0	380	355	
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	863	863	1486	497	0	0	0	0	
	F	22D-5wpm	0.442	-	38.90	0.00	165	17	642	0	114	10	370	0	
6	c) AED excursion													89	
	Envelope loss/gain								6734	4089			1002	460	
12	a) Infiltration								1617	83			442	23	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230		1				230	0			0	
			Appliances/other							0				500	
	Subtotal (lines 6 to 13)								8351	4402			1444	983	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								8351	4402			1444	983	
15	Duct loads								0	0			0	0	
	Total room load								8351	4402			1444	983	
	Air required (cfm)								179	204			31	46	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

# Right-J® Worksheet Entire House

Job:  
Date:  
By:  
Plan:

		1 Kitchen		1 Living										
1	Room name	19.8 ft		24.5 ft										
2	Exposed wall	10.0 ft		10.0 ft										
3	Room height	heat/cool		heat/cool										
4	Room dimensions	10.0 x 20.0 ft		12.3 x 20.0 ft										
5	Room area	200.0 ft²		245.0 ft²										
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	ne	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	ne	23.76	22.16	0	0	0	0	0	0	0	0
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	98	34	109	7	123	59	189	12
	G	U18 S35	0.180	se	15.84	13.15	32	18	507	421	32	18	507	421
	G	U18 S35	0.180	se	15.84	13.15	31	18	496	412	31	18	496	412
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	8.05	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	sw	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	sw	23.76	27.61	0	0	0	0	0	0	0	0
	D	Door U18	0.180	sw	15.84	3.76	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	100	36	115	8	123	59	187	12
	G	U18 S35	0.180	nw	15.84	17.00	64	0	1014	1088	64	0	1014	1088
	G	U27 S47	0.270	nw	23.76	22.16	0	0	0	0	0	0	0	0
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	0	0	0	0	0	0	0	0
	F	22D-5wpm	0.442	-	38.90	0.00	200	20	768	0	245	25	953	0
6	c) AED excursion													
	Envelope loss/gain								3009	1687			3346	1640
12	a) Infiltration								918	47			1139	58
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0				0	3			690
			Appliances/other							1200				900
	Subtotal (lines 6 to 13)								3927	2934			4485	3288
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3927	2934			4485	3288
15	Duct loads								-0%	0%			0	0
	Total room load								3927	2934			4485	3288
	Air required (cfm)								84	136			96	153

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



# Right-J® Worksheet Entire House

Job:  
Date:  
By:  
Plan:

		1 Mudroom 28.3 ft		1 Primary Bed 39.8 ft										
		10.0 ft heat/cool		14.5 ft heat/cool										
		18.0 x 10.3 ft		18.3 x 10.8 ft										
		184.5 ft²		196.2 ft²										
1	Room name													
		Exposed wall												
2	Room height													
3	Room dimensions													
4	Room area													
5	Room area													
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	0	0	0	0	108	92	292	19
	G	U18 S35	0.180	ne	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	ne	23.76	22.16	0	0	0	0	16	0	380	355
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	0	0	0	0	265	149	475	31
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	8.05	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	60	0	1426	1748
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	56	0	1331	1632
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	103	71	226	15	108	92	292	19
	G	U27 S47	0.270	sw	23.76	29.14	0	0	0	0	16	0	380	466
	G	U27 S47	0.270	sw	23.76	27.61	11	1	257	298	0	0	0	0
	D	Door U18	0.180	sw	15.84	3.76	21	21	333	79	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	180	164	524	35	82	82	262	17
	G	U18 S35	0.180	nw	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	nw	23.76	22.16	16	0	380	355	0	0	0	0
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	0	0	0	0	276	276	475	159
	F	22D-5wpm	0.442	-	38.90	0.00	185	28	1099	0	196	40	1546	0
6	c) AED excursion									239				89
	Envelope loss/gain								2818	1020			6860	4535
12	a) Infiltration								1313	67			2611	133
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								4131	1087			9471	4668
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								4131	1087			9471	4668
15	Duct loads								0	0			0	0
	Total room load								4131	1087			9471	4668
	Air required (cfm)								88	51			202	217

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

# Right-J® Worksheet Entire House

Job:  
Date:  
By:  
Plan:

1 Room name				2 Loft 56.0 ft				2 Mech Loft 65.0 ft						
2 Exposed wall				8.0 ft heat/cool				8.0 ft heat/cool						
3 Room height				18.0 x 20.0 ft				22.5 x 20.0 ft						
4 Room dimensions														
5 Room area				360.0 ft²				450.0 ft²						
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	R-21 plus R9 2x6 sid	0.036	ne	3.20	0.21	0	0	0	0	160	151	483	32
	G	U18 S35	0.180	ne	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	ne	23.76	22.16	0	0	0	0	9	0	214	199
11	W	R-21 plus R9 2x6 sid	0.036	se	3.20	0.21	54	54	173	11	68	68	216	14
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U18 S35	0.180	se	15.84	13.15	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	8.05	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	se	23.76	29.14	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	sw	3.20	0.21	160	151	483	32	0	0	0	0
	G	U27 S47	0.270	sw	23.76	29.14	9	0	214	262	0	0	0	0
	G	U27 S47	0.270	sw	23.76	27.61	0	0	0	0	0	0	0	0
	D	Door U18	0.180	sw	15.84	3.76	0	0	0	0	0	0	0	0
	W	R-21 plus R9 2x6 sid	0.036	nw	3.20	0.21	54	54	173	11	68	68	216	14
	G	U18 S35	0.180	nw	15.84	17.00	0	0	0	0	0	0	0	0
	G	U27 S47	0.270	nw	23.76	22.16	0	0	0	0	0	0	0	0
	C	R-45 plus R-9 vault	0.020	-	1.72	0.58	509	509	877	293	636	636	1097	366
	F	22D-5wpm	0.442	-	38.90	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									41				-25
	Envelope loss/gain								1919	650			2224	601
12	a) Infiltration								1246	64			1371	70
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								3164	714			3596	671
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3164	714			3596	671
15	Duct loads								0	0			0	0
	Total room load								3164	714			3596	671
	Air required (cfm)								68	33			77	31

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.