



Vineland, NJ 08361

Project Information

For: San Antonio, TX

Cooling Equipment

Design Conditions

Outdoor design DB:	97.7°F	Sensible gain:	23145	Btuh	Entering coil DB:	77.9°F
Outdoor design WB:	73.6°F	Latent gain:	2826	Btuh	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	25970	Btuh		
Indoor RH:	50%	Estimated airflow:	1140	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Carrier	Model:	25SPA536AC0300+F54AAXB36L		
Actual airflow:	1140	cfm			
Sensible capacity:	26865	Btuh	116%	of load	
Latent capacity:	4285	Btuh	152%	of load	
Total capacity:	31150	Btuh	120%	of load	SHR: 86%

Heating Equipment

Design Conditions

Outdoor design DB:	33.1°F	Heat loss:	24557	Btuh	Entering coil DB:	67.9°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Carrier	Model:	25SPA536AC0300+F54AAXB36L		
Actual airflow:	1140	cfm			
Output capacity:	34000	Btuh	138%	of load	Capacity balance: 26 °F
Supplemental heat required:	0	Btuh			Economic balance: -99 °F

Meets all requirements of ACCA Manual S.





Vineland, NJ 08361

Project Information

For: San Antonio, TX

Cooling Equipment

Design Conditions

Outdoor design DB:	97.7°F	Sensible gain:	17664 Btu/h	Entering coil DB:	77.7°F
Outdoor design WB:	73.6°F	Latent gain:	1533 Btu/h	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	19197 Btu/h		
Indoor RH:	50%	Estimated airflow:	920 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Carrier	Model:	25SPA530AC0300+F54AAXB36L		
Actual airflow:	920 cfm				
Sensible capacity:	19320 Btu/h		109% of load		
Latent capacity:	8280 Btu/h		540% of load		
Total capacity:	27600 Btu/h		144% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.1°F	Heat loss:	15369 Btu/h	Entering coil DB:	67.9°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Carrier	Model:	25SPA530AC0300+F54AAXB36L		
Actual airflow:	920 cfm				
Output capacity:	28000 Btu/h		182% of load	Capacity balance:	18 °F
Supplemental heat required:	0 Btu/h			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.





Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form
RPER 2.0

Header Information

Contractor B&B System Design
Mechanical license# Bobby Blough
Building plan # _____
Home address (Street or Lot#, Block, Subdivision) SYSTEM 1

Applicable Attachments
Manual J1 Form and Worksheet A: Yes No
OEM performance data (heating, cooling, blower): Yes No
Duct distribution sketch: Yes No
IRC Table R301.2 (climate & geographic design criteria) Yes No

HVAC LOAD CALCULATION (IRC M1401.3)

Manual J Design Criteria and Loads

Location	Summer Design Conditions	Manual J Loads
Elevation 789 ft	Outdoor Cooling Temp 98 °F	Total Heat Loss 24557 Btuh
Altitude Correction Factor 0.97	Indoor Cooling Temp 75 °F	
Latitude 30 °N	Cooling Temp Diff 23 °F	Sensible Heat Gain 23145 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 2826 Btuh
	Coincident Wet Bulb Temp 74 °F	Total Heat Gain 25970 Btuh

Winter Design Conditions

Outdoor Winter Temp 33 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 37 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Y N

HVAC EQUIPMENT SELECTION (IRC M1401.3)

Heating Equipment

Furnace Boiler Electric Heat
 Single Speed Multi Stage Modulating

Cooling Equipment

Air Conditioner Heat Pump
 Air-to-Air Geothermal Open Loop Geothermal Closed Loop
 Single Speed Multi Stage Variable Speed

Model 25.SPA536AC03.00+F54.AAXB36L

Output 34000 Btuh Sizing Value 24557 Btuh
Supplemental 0 Btuh Sizing Limit 175.0 %
Heat Load Capacity 138.5 %

Model 25.SPA536AC03.00+F54.AAXB36L

Sensible 26865 Btuh Sizing Value 25970 Btuh
Latent 4285 Btuh Sizing Limit 115.0 %
Total 31150 Btuh Load Capacity 119.9 %

Size Factor is within Manual S Size Limit? Y N

Size Factor is within Manual S Size Limit? Y N

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 1140 cfm	Longest Supply Duct 173 ft	Duct Materials Used
External Static Pressure (ESP) 0 in H2O	Longest Return Duct 129 ft	Trunk Duct: <input type="checkbox"/> Duct Board <input checked="" type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 302 ft	<input type="checkbox"/> Flex <input type="checkbox"/> Lined Sheet Metal <input type="checkbox"/> Other
Available static pressure (ASP) 0 in H2O	Friction Rate 0 in/100ft	Branch Duct: <input type="checkbox"/> Duct Board <input type="checkbox"/> Sheet Metal
ESP - CPL = ASP	(ASP x 100) / TEL = Friction Rate	<input checked="" type="checkbox"/> Flex <input type="checkbox"/> Lined Sheet Metal <input type="checkbox"/> Other

Ducts are sized per Manual D? Y N

I declare the load calculation, equipment selection, and duct system design were rigorously performed based on the building plan listed above and understand the claims made on these forms may be subject to review and verification.

Contractor's printed name: _____

Contractor's signature: _____ Date: _____



Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form
RPER 2.0

Header Information

Contractor B&B System Design
Mechanical license# Bobby Blough
Building plan # _____
Home address (Street or Lot#, Block, Subdivision) SYSTEM 2

Applicable Attachments
Manual J1 Form and Worksheet A: Yes No
OEM performance data (heating, cooling, blower): Yes No
Duct distribution sketch: Yes No
IRC Table R301.2 (climate & geographic design criteria) Yes No

HVAC LOAD CALCULATION (IRC M1401.3)

Manual J Design Criteria and Loads

Location	Summer Design Conditions	Manual J Loads
Elevation 789 ft	Outdoor Cooling Temp 98 °F	Total Heat Loss 15369 Btuh
Altitude Correction Factor 0.97	Indoor Cooling Temp 75 °F	
Latitude 30 °N	Cooling Temp Diff 23 °F	Sensible Heat Gain 17664 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 1533 Btuh
	Coincident Wet Bulb Temp 74 °F	Total Heat Gain 19197 Btuh

Winter Design Conditions

Outdoor Winter Temp 33 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 37 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Y N

HVAC EQUIPMENT SELECTION (IRC M1401.3)

Heating Equipment

Furnace Boiler Electric Heat
 Single Speed Multi Stage Modulating

Cooling Equipment

Air Conditioner Heat Pump
 Air-to-Air Geothermal Open Loop Geothermal Closed Loop
 Single Speed Multi Stage Variable Speed

Model 25.SPA530AC03.00+F54.AAXB36L

Output 28000 Btuh Sizing Value 15369 Btuh
Supplemental 0 Btuh Sizing Limit 175.0 %
Heat Load: Capacity 182.2 %

Model 25.SPA530AC03.00+F54.AAXB36L

Sensible 19320 Btuh Sizing Value 19197 Btuh
Latent 8280 Btuh Sizing Limit 115.0 %
Total 27600 Btuh Load: Capacity 143.8 %

Size Factor is within Manual S Size Limit? Y N

Size Factor is within Manual S Size Limit? Y N

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 920 cfm	Longest Supply Duct 158 ft	Duct Materials Used
External Static Pressure (ESP) 0 in H2O	Longest Return Duct 84.0 ft	Trunk Duct: <input type="checkbox"/> Duct Board <input checked="" type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 242 ft	<input type="checkbox"/> Flex <input type="checkbox"/> Lined Sheet Metal <input type="checkbox"/> Other
Available static pressure (ASP) 0 in H2O	Friction Rate 0 in/100ft	Branch Duct: <input type="checkbox"/> Duct Board <input type="checkbox"/> Sheet Metal
ESP - CPL = ASP	(ASP x 100) / TEL = Friction Rate	<input checked="" type="checkbox"/> Flex <input type="checkbox"/> Lined Sheet Metal <input type="checkbox"/> Other

Ducts are sized per Manual D? Y N

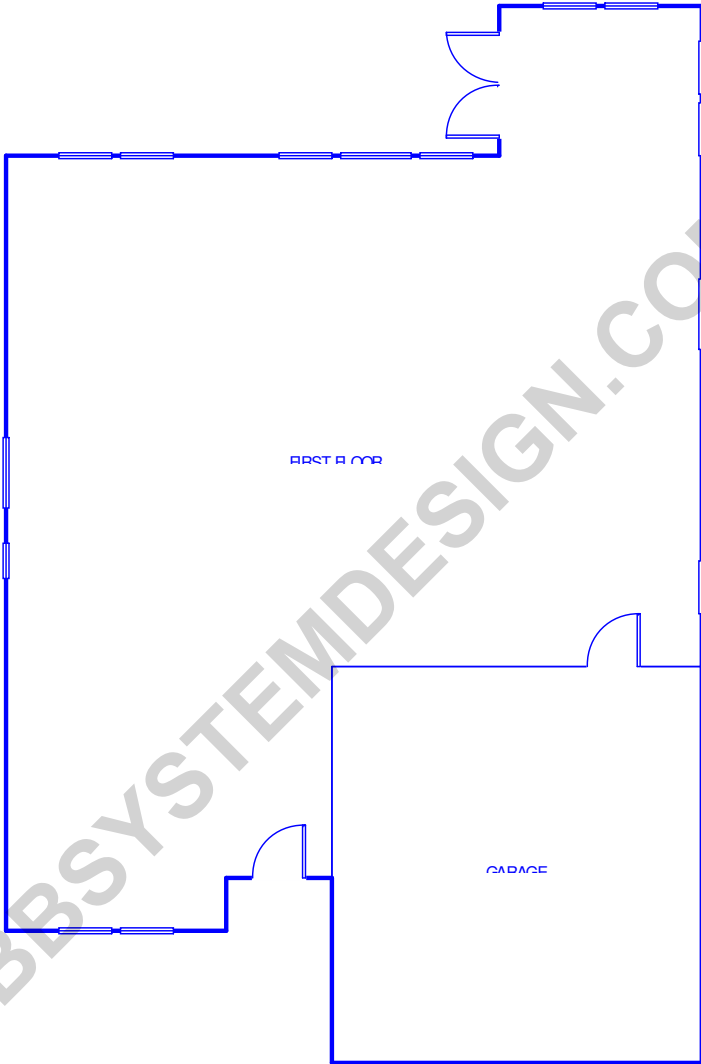
I declare the load calculation, equipment selection, and duct system design were rigorously performed based on the building plan listed above and understand the claims made on these forms may be subject to review and verification.

Contractor's printed name: _____

Contractor's signature: _____ Date: _____



FIRST FLOOR



Job #:
Performed by Bobby Blough for:

San Antonio, TX

B&B System Design

Vineland, NJ 08361

Scale: 1 : 87

Page 1

Right-Suite® Universal 2024

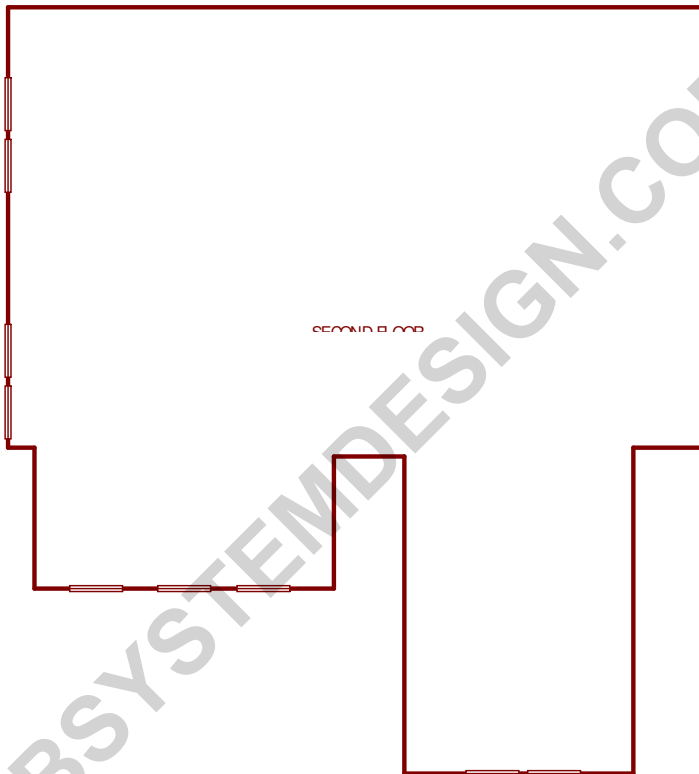
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SECOND FLOOR



Job #:
Performed by Bobby Blough for:

San Antonio, TX

B&B System Design

Vineland, NJ 08361

Scale: 1 : 87

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2024-Dec-26 11:46:09

...neycomb Dr4211 Honeycomb Dr.rup



Right-J8® Form J1
Entire House
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room				Entire House				SYSTEM 1				
2 Running Feet of Exposed Wall				365.0 ft				184.0 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)				9.5 ft		3782.2 ft ²		10.0 ft		2146.0 ft ²		
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						2868.8 ft ²				1502.8 ft ²		
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)				0 °		2868.8 ft ²		0 °		1502.8 ft ²		
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Ctg	L-Ctg		Heating	S-Ctg	L-Ctg
6 Wall	12C-0sw	n	3.36	2.67	751	2077	1652		395	883	702	
Glaz	2 glazing, clr low-e	n	11.07	12.02	132	1461	1586		132	1461	1586	
Wall	12C-0sw	e	3.36	2.67	864	2586	2057		405	1145	911	
Glaz	2 glazing, clr low-e	e	11.07	30.80	94	1041	2696		64	708	1972	
11 Wall	12C-0sw	s	3.36	2.67	541	1422	1131		165	420	334	
Glaz	2 glazing, clr low-e	s	11.07	13.62	33	1030	1266		36	359	490	
Door	11N0	s	12.91	12.02	24	310	289		24	310	289	
Wall	12C-0sw	w	3.36	2.67	984	2861	2276		525	1521	1210	
Glaz	2 glazing, clr low-e	w	11.07	30.80	84	930	2588		24	266	739	
Wall	12C-0sw	w	11.07	21.56	48	531	1035		48	531	1035	
Glaz	2 glazing, clr low-e	w	11.07	30.80	84	930	2588		24	266	739	
Wall	12C-0sw	-	3.36	1.77	330	1028	542		330	1028	542	
11N0	11N0	n	12.91	12.02	24	310	289		24	310	289	
Door	16B-50ad	-	0.74	1.16	1829	1350	2116		463	342	536	
20P-19c	20P-19c	-	1.85	0.89	327	602	291		0	0	0	
22A-1pl	22A-1pl	-	36.49	0.00	1503	6715	0		1503	6715	0	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.18		WAR 1.00	3207			WAR 1.00	1543		
	Sensible Load (Btuh)		0.08			884				425		
	Latent Load (Btuh)					559				269		
13 Internal	a Occupants at 230 and 200 Btuh			5	1150	1000	5	1150	1000			
	b Scenario number				3600			2400				
	c Default Adjustments											
	d Custom Appliances				0	0		0	0			
	e Plants											
14 Subtotals	Sum lines 6 through 12				27460	25646	1559	17581	14609	1269		
15 Duct Loads	EHLF & ESGF	0.388		0.539	10043	13599		5672	7734			
	ELG						1623			924		
16 Ventilation Loads	Vent Cfm	154	E Cfm	154	2423	1491	1177	1303	802	633		
17 Winter Humidification Load	Gal/Day		0		0			0				
18 Piping Load					0			0				
19 Blower Heat						0			0			
20 AED Excursion & Latent Moisture Migration Load						0			0			
21 Total Load	Sum lines 13 through 19				39925	40736	3182	24557	23145	2826		

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



Right-Suite® Universal 2024.24.0.03 RSU64913

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Right-J8® Form J1
Entire House
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room					SYSTEM 2								
2 Running Feet of Exposed Wall					181.0 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)					9.0 ft	1629.0 ft ²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						1366.0 ft ²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)					0 °	1366.0 ft ²							
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-C/ig	L-C/ig		Heating	S-C/ig	L-C/ig	
6 Wall	12C-0sw	n	3.36	2.67	356	1194	949						
Glaz	2 glazing, clr low-e	n	11.07	12.02	0	0	0						
Wall	12C-0sw	e	3.36	2.67	459	1441	1146						
Glaz	2 glazing, clr low-e	e	11.07	30.80	30	332	924						
11 Wall	12C-0sw	s	3.36	2.67	356	1002	797						
Glaz	2 glazing, clr low-e	s	11.07	13.62	57	631	776						
Door	11N0	s	12.91	12.02	0	0	0						
Wall	12C-0sw	w	3.36	2.67	459	1340	1066						
Glaz	2 glazing, clr low-e	w	11.07	30.80	60	664	1848						
Glaz	2 glazing, clr low-e	w	11.07	21.56	0	0	0						
Wall	12C-0sw	-	3.36	1.77	0	0	0						
11N0	11N0	n	12.91	12.02	0	0	0						
Door	16B-50ad	-	0.74	1.16	1366	1008	1580						
Flor	20P-19c	-	1.85	0.89	327	602	291						
Flor	22A-1pl	-	36.49	0.00	0	0	0						
12	Infiltration	Heating Load (Btuh)		0.18		1664							
		Sensible Load (Btuh)	Effect		WAR		459						
		Latent Load (Btuh)	ACH	0.08	1.00			290					
13	Internal	a Occupants at 230 and 200 Btuh			0		0	0					
		b Scenario number					1200						
		c Default Adjustments											
		d Custom Appliances					0	0					
		e Plants						0					
14	Subtotals	Sum lines 6 through 12				9879	11085	290					
15	Duct Loads	EHLF & ESGF	0.442	0.531		4370	5890						
		ELG						699					
16	Ventilation Loads	Vent Cf _m	154	E Cf _m	154	1120	689	544					
17	Winter Humidification Load	Gal/Day			0	0							
18	Piping Load					0							
19	Blower Heat						0						
20	AED Excursion & Latent Moisture Migration Load						48						
21	Total Load	Sum lines 13 through 19				15369	17664	1533					

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



Right-Suite® Universal 2024 24.0.03 RSU64913

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Page 2



Right-J8® Form J1
SYSTEM 1
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room				SYSTEM 1				FIRST FLOOR				
2 Running Feet of Exposed Wall				184.0 ft				184.0 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)				10.0 ft		2146.0 ft ²		10.0 ft		2146.0 ft ²		
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						1502.8 ft ²		1.0 x 1502.8 ft		1502.8 ft ²		
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)				0 °		1502.8 ft ²		0 °		1502.8 ft ²		
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Ctg	L-Ctg		Heating	S-Ctg	L-Ctg
6 Wall	12C-0sw	n	3.36	2.67	395	883	702		395	883	702	
Glaz	2 glazing, clr low-e	n	11.07	12.02	132	1461	1586		132	1461	1586	
Wall	12C-0sw	e	3.36	2.67	405	1145	911		405	1145	911	
Glaz	2 glazing, clr low-e	e	11.07	30.80	64	708	1972		64	708	1972	
Wall	12C-0sw	s	3.36	2.67	185	420	334		185	420	334	
Glaz	2 glazing, clr low-e	s	11.07	13.62	36	399	490		36	399	490	
Door	11N0	s	12.91	12.02	24	310	289		24	310	289	
Wall	12C-0sw	w	3.36	2.67	525	1521	1210		525	1521	1210	
Glaz	2 glazing, clr low-e	w	11.07	30.80	24	266	739		24	266	739	
Glaz	2 glazing, clr low-e	w	11.07	21.56	48	531	1035		48	531	1035	
Wall	12C-0sw	-	3.36	1.77	330	1028	542		330	1028	542	
11N0	11N0	n	12.91	12.02	24	310	289		24	310	289	
Door	16B-50ad	-	0.74	1.16	463	342	536		463	342	536	
Floor	20P-19c	-	0.00	0.00	0	0	0		0	0	0	
Floor	22A-1pl	-	36.49	0.00	1503	6715	0		1503	6715	0	
12 Infiltration	Heating Load (Btuh)		0.16		WAR	1543		WAR	1543			
	Sensible Load (Btuh)		0.07		1.00		425	1.00		425		
	Latent Load (Btuh)						269					
13 Internal	a Occupants at 230 and 200 Btuh				5	1150	1000	5	1150	1000		
	b Scenario number					2400			2400			
	c Default Adjustments											
	d Custom Appliances					0	0		0	0		
	e Plants						0			0		
14 Subtotals	Sum lines 6 through 12					17581	14609	1269	17581	14609		
15 Duct Loads	EHLF & ESGF		0.323	0.529		5672	7734		5672	7734		
	ELG							924			924	
16 Ventilation Loads	Vent Cf _m	83	E Cf _m	83		1303	802	633				
17 Winter Humidification Load	Gal/Day		0			0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							0			0		
21 Total Load	Sum lines 13 through 19					24557	23145	2826	23254	22343		

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



Right-Suite® Universal 2024.24.0.03 RSU64913

...helicub4211 Honeycomb Dr.4211 Honeycomb Dr.rup Calc = MJ8 Front Door Faces: S



Right-J8® Form J1
SYSTEM 2
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			SYSTEM 2						SECOND FLOOR					
2 Running Feet of Exposed Wall			181.0 ft						181.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		1629.0 ft ²		1629.0 ft ²		9.0 ft		1629.0 ft ²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					1366.0 ft ²		1366.0 ft ²		1.0 x 1366.0 ft		1366.0 ft ²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		1366.0 ft ²		1366.0 ft ²		0 °		1366.0 ft ²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Ctg	L-Ctg		Heating	S-Ctg	L-Ctg		
6 Wall	12C-0sw	n	3.36	2.67	356	1194	949		356	1194	949			
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0		0	0	0			
Wall	12C-0sw	e	3.36	2.67	459	1441	1146		459	1441	1146			
Glaz	2 glazing, clr low-e	e	11.07	30.80	30	332	924		30	332	924			
Wall	12C-0sw	s	3.36	2.67	356	1002	797		356	1002	797			
Glaz	2 glazing, clr low-e	s	11.07	13.62	57	631	776		57	631	776			
Door	11N0	s	0.00	0.00	0	0	0		0	0	0			
Wall	12C-0sw	w	3.36	2.67	459	1340	1066		459	1340	1066			
Glaz	2 glazing, clr low-e	w	11.07	30.80	60	664	1848		60	664	1848			
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0		0	0	0			
Wall	12C-0sw	-	0.00	0.00	0	0	0		0	0	0			
Door	11N0	n	0.00	0.00	0	0	0		0	0	0			
Ceil	16B-50ad	-	0.74	1.16	1366	1008	1580		1366	1008	1580			
Floor	20P-19c	-	1.85	0.89	327	602	291		327	602	291			
Floor	22A-1pl	-	0.00	0.00	0	0	0		0	0	0			
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.21		WAR 1.00	1664			WAR 1.00	1664				
Sensible Load (Btuh)	0.09		459			459								
Latent Load (Btuh)			290											
13 Internal	a Occupants at 230 and 200 Btuh			0		0		0		0		0		
b Scenario number							1200				1200			
c Default Adjustments														
d Custom Appliances							0				0			
e Plants							0				0			
14 Subtotals			Sum lines 6 through 12				9879		11085		290		9879	
15 Duct Loads	EHLF & ESGF		0.442		0.531		4370		5890				4370	
ELG									699				699	
16 Ventilation Loads	Vent Cf _m	71	E Cf _m	71			1120		689		544			
17 Winter Humidification Load			Gal/Day		0		0							
18 Piping Load							0							
19 Blower Heat							0							
20 AED Excursion & Latent Moisture Migration Load							48						48	
21 Total Load			Sum lines 13 through 19				15369		17664		1533		14249	

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



Right-Suite® Universal 2024.24.0.03 RSU64913

...hellicub4211 Honeycomb Dr.4211 Honeycomb Dr.rup Calc = MJ8 Front Door Faces: S



Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	33	98	Method		Simplified
Inside db (°F)	70	75	Construction quality		Tight
Design TD (°F)	37	23	Fireplaces		1 (Semi-tight)
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	34	23			

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 (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
SYSTEM 1	d 1503	23254	22343	1140	1140
SYSTEM 2	d 1366	14249	16975	920	920
Entire House	d 2869	37502	39245	2060	2060
Other equip loads		2423	1491		
Equip. @ 1.03 RSM			41836		
Latent cooling			3182		
TOTALS	2869	39925	45018	2060	2060

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



Load Short Form
SYSTEM 1
B&B System Design

Job:
 Date: Dec 26, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	33	98	Method		Simplified Average 1 (Average)
Inside db (°F)	70	75	Construction quality		
Design TD (°F)	37	23	Fireplaces		
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	34	23			

HEATING EQUIPMENT

Make Carrier
 Trade PERFORMANCE 15 SEER2 HP
 Model 25SPA536AC0300
 AHRI ref 213304009

Efficiency 7.5 HSPF2
 Heating input 34000 Btuh @ 47°F
 Heating output 28 °F
 Temperature rise 1140 cfm
 Actual air flow 0.049 cfm/Btuh
 Air flow factor 0 in H2O
 Static pressure
 Space thermostat
 Capacity/balance point = 26 °F

COOLING EQUIPMENT

Make Carrier
 Trade PERFORMANCE 15 SEER2 HP
 Cond 25SPA536AC0300
 Coil F54AAXB36L
 AHRI ref 213304009

Efficiency 12.0 EER2, 14.3 SEER2
 Sensible cooling 23940 Btuh
 Latent cooling 10260 Btuh
 Total cooling 34200 Btuh
 Actual air flow 1140 cfm
 Air flow factor 0.051 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
FIRST FLOOR	1503	23254	22343	1140	1140
SYSTEM 1	1503	23254	22343	1140	1140
Other equip loads		1303	802		
Equip. @ 1.03 RSM			23770		
Latent cooling			2826		
TOTALS	1503	24557	26595	1140	1140

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



Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	33	98	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	37	23	Fireplaces		1 (Average)
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	34	23			

HEATING EQUIPMENT

Make	Carrier	
Trade	PERFORMANCE 15 SEER2 HP	
Model	25SPA530AC0300	
AHRI ref	213300250	
Efficiency	7.8 HSPF2	
Heating input		
Heating output	28000 Btuh @ 47°F	
Temperature rise	28 °F	
Actual air flow	920 cfm	
Air flow factor	0.065 cfm/Btuh	
Static pressure	0 in H2O	
Space thermostat		
Capacity/balance point = 18 °F		

COOLING EQUIPMENT

Make	Carrier	
Trade	PERFORMANCE 15 SEER2 HP	
Cond	25SPA530AC0300	
Coil	F54AAXB36L	
AHRI ref	213300250	
Efficiency	12.5 EER2, 14.5 SEER2	
Sensible cooling	19320 Btuh	
Latent cooling	8280 Btuh	
Total cooling	27600 Btuh	
Actual air flow	920 cfm	
Air flow factor	0.054 cfm/Btuh	
Static pressure	0 in H2O	
Load sensible heat ratio	0.92	

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
SECOND FLOOR	1366	14249	16975	920	920
SYSTEM 2	1366	14249	16975	920	920
Other equip loads		1120	689		
Equip. @ 1.03 RSM			18141		
Latent cooling			1533		
TOTALS	1366	15369	19674	920	920

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



Load Multizone Summary Report

B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

Infiltration Summary

ZONE NAME	Heating				Cooling			
	Volume ft ³	ACH	AVF cfm	HTM Btuh/ft ²	Volume ft ³	ACH	AVF cfm	HTM Btuh/ft ²
SYSTEM 1	15028	0.16	39	1.0	15028	0.07	18	0.3
SYSTEM 2	12294	0.21	42	1.0	12294	0.09	19	0.3
Entire House	27322	0.18	81	1.0	27322	0.08	36	0.3

Load and AVF Summary

ROOM NAME	Area ft ²	Htg load Btuh	Clg load Btuh	Htg AVF cfm	Clg AVF cfm
FIRST FLOOR	1503	23254	22343	1140	1140
SYSTEM 1	1503	23254	22343	1140	1140
SECOND FLOOR	1366	14249	16975	920	920
SYSTEM 2	1366	14249	16975	920	920
Entire House	2869	37502	39245	2060	2060



Vineand, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:

San Antonio Intl, TX, US
 Elevation: 789 ft
 Latitude: 30°N

Indoor:

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

Heating

70
 37
 50
 33.5

Cooling

75
 23
 50
 23.2

Outdoor:

Drybulb (°F)
 Dailyrange (°F)
 Wet bulb (°F)
 Wind speed (mph)

Heating

33
 -
 -
 15.0

Cooling

98
 20 (M)
 74
 7.5

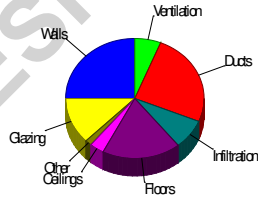
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Tight
 1 (Semi-tight)

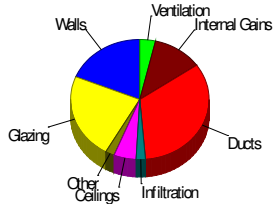
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	9973	25.0
Glazing	11.1	4993	12.5
Doors	12.9	620	1.6
Ceilings	0.7	1350	3.4
Floors	4.0	7317	18.3
Infiltration	1.0	3207	8.0
Ducts		10043	25.2
Piping		0	0
Humidification		0	0
Ventilation		2423	6.1
Adjustments		0	0
Total		39925	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.6	7657	18.8
Glazing	20.8	9371	23.0
Doors	12.0	577	1.4
Ceilings	1.2	2116	5.2
Floors	0.2	291	0.7
Infiltration	0.3	884	2.2
Ducts		13599	33.4
Ventilation		1491	3.7
Internal gains		4750	11.7
Blower		0	0
Adjustments		0	0
Total		40736	100.0



Latent Cooling Load = 3182 Btuh
 Overall U-value = 0.092 Btuh/ft²·°F, Window / Floor Area = 15.7 %

Data entries checked.

Vineand, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:

San Antonio Intl, TX, US
 Elevation: 789 ft
 Latitude: 30°N

Outdoor:

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

Heating

33
 -
 -
 15.0

Cooling

98
 20 (M)
 74
 7.5

Indoor:

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

Heating

70
 37
 50
 33.5

Cooling

75
 23
 50
 23.2

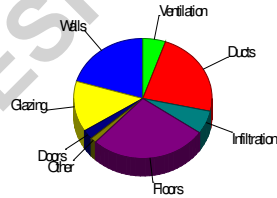
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

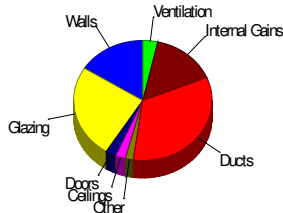
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	4997	20.3
Glazing	11.1	3365	13.7
Doors	12.9	620	2.5
Ceilings	0.7	342	1.4
Floors	4.5	6715	27.3
Infiltration	1.0	1543	6.3
Ducts		5672	23.1
Piping		0	0
Humidification		0	0
Ventilation		1303	5.3
Adjustments		0	0
Total		24557	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.5	3699	16.0
Glazing	19.2	5822	25.2
Doors	12.0	577	2.5
Ceilings	1.2	536	2.3
Floors	0	0	0
Infiltration	0.3	425	1.8
Ducts		7734	33.4
Ventilation		802	3.5
Internal gains		3550	15.3
Blower		0	0
Adjustments		0	0
Total		23145	100.0



Latent Cooling Load = 2826 Btuh
 Overall U-value = 0.114 Btuh/ft²·°F, Window / Floor Area = 20.2 %

Data entries checked.

Vineand, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:

San Antonio Intl, TX, US
 Elevation: 789 ft
 Latitude: 30°N

Outdoor:

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

Heating

33
 -
 -
 15.0

Cooling

98
 20 (M)
 74
 7.5

Indoor:

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

Heating

70
 37
 50
 33.5

Cooling

75
 23
 50
 23.2

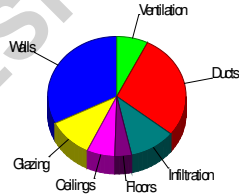
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

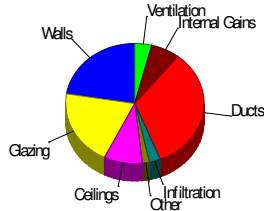
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	4976	32.4
Glazing	11.1	1627	10.6
Doors	0	0	0
Ceilings	0.7	1008	6.6
Floors	1.8	602	3.9
Infiltration	1.0	1664	10.8
Ducts		4370	28.4
Piping		0	0
Humidification		0	0
Ventilation		1120	7.3
Adjustments		0	0
Total		15369	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.7	3958	22.4
Glazing	24.5	3596	20.4
Doors	0	0	0
Ceilings	1.2	1580	8.9
Floors	0.9	291	1.6
Infiltration	0.3	459	2.6
Ducts		5890	33.3
Ventilation		689	3.9
Internal gains		1200	6.8
Blower		0	0
Adjustments		0	0
Total		17664	100.0



Latent Cooling Load = 1533 Btuh
 Overall U-value = 0.067 Btuh/ft²·°F, Window / Floor Area = 10.8 %

Data entries checked.



J1 Form - Worksheet A
Entire House
B&B System Design

Job:
 Date: Dec 26, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 4211 Honeycomb Dr	Date: Dec 26, 2024
Address: San Antonio, TX	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: San Antonio Intl, TX, US	Elevation = 789	Latitude = 30
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F	RH = 50 %
Table 1 Conditions 99% DB = 33 °F 1% DB = 98 °F	Grains Difference = 23 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 37 °F	CTD = 23 °F

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



Right-Suite® Universal 2024 24.0.03 RSU64913

2024-Dec-26 11:45:52



J1 Form - Worksheet A
SYSTEM 1
B&B System Design

Job:
 Date: Dec 26, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 4211 Honeycomb Dr	Date: Dec 26, 2024
Address: San Antonio, TX	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: San Antonio Intl, TX, US	Elevation = 789	Latitude = 30
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 33 °F 1% DB = 98 °F	Grains Difference = 23 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 37 °F	CTD = 23 °F

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



Right-Suite® Universal 2024 24.0.03 RSU64913

2024-Dec-26 11:45:52



J1 Form - Worksheet A
SYSTEM 2
B&B System Design

Job:
 Date: Dec 26, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 4211 Honeycomb Dr	Date: Dec 26, 2024
Address: San Antonio, TX	
Phone:	Job ID:

Worksheet A		
Location and Design Conditions		
Weather Location: San Antonio Intl, TX, US	Elevation = 789	Latitude = 30
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F	RH = 50 %
Table 1 Conditions 99% DB = 33 °F 1% DB = 98 °F	Grains Difference = 23 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 37 °F	CTD = 23 °F

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



Right-Suite® Universal 2024 24.0.03 RSU64913

2024-Dec-26 11:45:52

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
San Antonio Intl, TX, US		Indoor temperature (°F)		70	75
Elevation: 789 ft		Design TD (°F)		37	23
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		33.5	23.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	33	98	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Tight	
Wet bulb (°F)	-	74	Fireplaces	1 (Semi-tight)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	HTM	Gain
		ft²	Btuh/ft²·F	ft²·F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
Walls								
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	619	0.091	13.0	3.36	2077	2.67	1652
	e	770	0.091	13.0	3.36	2586	2.67	2057
	s	424	0.091	13.0	3.36	1422	2.67	1131
	w	852	0.091	13.0	3.36	2861	2.67	2276
	all	2664	0.091	13.0	3.36	8945	2.67	7115
Partitions								
12C-0sw: Frm wall, 1/2" gyp.bd ext, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud		306	0.091	13.0	3.36	1028	1.77	542
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht	n	132	0.300	0	11.1	1461	12.0	1586
	e	94	0.300	0	11.1	1041	30.8	2896
	s	93	0.300	0	11.1	1030	13.6	1266
	w	84	0.300	0	11.1	930	30.8	2588
	w	48	0.300	0	11.1	531	21.6	1035
	all	451	0.300	0	11.1	4993	20.8	9371
Doors								
11N0: Door, mtl eps core type	s	24	0.350	8.7	12.9	310	12.0	289
	n	24	0.350	8.7	12.9	310	12.0	289
	all	48	0.350	8.7	12.9	620	12.0	577
Ceilings								
16B-50ad: Attic ceiling, asphalt shingles roof mat, r-50 cell ins, 1/2" gypsum board int fnsh		1829	0.020	50.0	0.74	1350	1.16	2116
Floors								
20P-19c: Fir floor, frm flr, 6" thkns, carpet flr fnsh, r-19 cav ins, gar ovrr		327	0.050	19.0	1.85	602	0.89	291
22A-1pl: Bg floor, light dry soil, on grade depth		184	0.989	0	36.5	6715	0	0



Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
San Antonio Intl, TX, US		Indoor temperature (°F)		70	75
Elevation: 789 ft		Design TD (°F)		37	23
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		33.5	23.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	33	98	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Average	
Wet bulb (°F)	-	74	Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btu/h·ft²·°F	Ins ul R ft²·°F/Btu	Htg HTM Btu/h·ft²	Loss Clg HTM Btu/h·ft²	HTM Btu/h	Gain Btu/h
Walls								
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	263	0.091	13.0	3.36	883	2.67	702
	e	341	0.091	13.0	3.36	1145	2.67	911
	s	125	0.091	13.0	3.36	420	2.67	334
	w	453	0.091	13.0	3.36	1521	2.67	1210
	all	1182	0.091	13.0	3.36	3969	2.67	3157
Partitions								
12C-0sw: Frm wall, 1/2" gyp.bd ext, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud		306	0.091	13.0	3.36	1028	1.77	542
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht	n	132	0.300	0	11.1	1461	12.0	1586
	e	64	0.300	0	11.1	708	30.8	1972
	s	36	0.300	0	11.1	399	13.6	490
	w	24	0.300	0	11.1	266	30.8	739
	w	48	0.300	0	11.1	531	21.6	1035
	all	304	0.300	0	11.1	3365	19.2	5822
Doors								
11N0: Door, mtl eps core type	s	24	0.350	8.7	12.9	310	12.0	289
	n	24	0.350	8.7	12.9	310	12.0	289
	all	48	0.350	8.7	12.9	620	12.0	577
Ceilings								
16B-50ad: Attic ceiling, asphalt shingles roof mat, r-50 cell ins, 1/2" gypsum board int fnsh		463	0.020	50.0	0.74	342	1.16	536
Floors								
22A-tp1: Bg floor, light dry soil, on grade depth		184	0.989	0	36.5	6715	0	0

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
San Antonio Intl, TX, US		Indoor temperature (°F)		70	75
Elevation: 789 ft		Design TD (°F)		37	23
Latitude: 30°N		Relative humidity (%)		50	50
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	33	98	Moisture difference (gr/lb)		
Daily range (°F)	-	20 (M)	Method		
Wet bulb (°F)	-	74	Simplified		
Wind speed (mph)	15.0	7.5	Construction quality		
			Average		
			Fireplaces		
			1 (Average)		

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	Gain	
		ft²	Btuh/ft²·F	ft²·F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	
Walls								
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum	n	356	0.091	13.0	3.36	1194	2.67	949
board int fnsh, 2"x4" wood frm, 16" o.c. stud	e	429	0.091	13.0	3.36	1441	2.67	1146
	s	299	0.091	13.0	3.36	1002	2.67	797
	w	399	0.091	13.0	3.36	1340	2.67	1066
	all	1482	0.091	13.0	3.36	4976	2.67	3958

Partitions

(none)

Windows

2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, insulated vinyl frm	e	30	0.300	0	11.1	332	30.8	924
mat, clr inner, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head	s	57	0.300	0	11.1	631	13.6	776
ht	w	60	0.300	0	11.1	664	30.8	1848
	all	147	0.300	0	11.1	1627	24.1	3549

Doors

(none)

Ceilings

16B-50ad: Attic ceiling, asphalt shingles roof mat, r-50 cell ins, 1/2" gypsum board int fnsh		1366	0.020	50.0	0.74	1008	1.16	1580
-----------------------------------------------------------------------------------------------	--	------	-------	------	------	------	------	------

Floors

20P-19c: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-19 cav ins, gar ovr		327	0.050	19.0	1.85	602	0.89	291
-------------------------------------------------------------------------------	--	-----	-------	------	------	-----	------	-----



Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
San Antonio Intl, TX, US		Indoor temperature (°F)		70	75
Elevation: 789 ft		Design TD (°F)		37	23
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		33.5	23.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	33	98	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Average	
Wet bulb (°F)	-	74	Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btu/h·ft²·°F	Ins ul R ft²·°F/Btu	Htg HTM Btu/h/ft²	Loss Clg HTM Btu/h	HTM Btu/h/ft²	Gain Btu/h
Walls								
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	263	0.091	13.0	3.36	883	2.67	702
	e	341	0.091	13.0	3.36	1145	2.67	911
	s	125	0.091	13.0	3.36	420	2.67	334
	w	453	0.091	13.0	3.36	1521	2.67	1210
	all	1182	0.091	13.0	3.36	3969	2.67	3157
Partitions								
12C-0sw: Frm wall, 1/2" gyp.bd ext, r-13 cav ins, 1/2" gypsum board int fnsh, 2"x4" wood frm, 16" o.c. stud		306	0.091	13.0	3.36	1028	1.77	542
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht	n	132	0.300	0	11.1	1461	12.0	1586
	e	64	0.300	0	11.1	708	30.8	1972
	s	36	0.300	0	11.1	399	13.6	490
	w	24	0.300	0	11.1	266	30.8	739
	w	48	0.300	0	11.1	531	21.6	1035
	all	304	0.300	0	11.1	3365	19.2	5822
Doors								
11N0: Door, mtl eps core type	s	24	0.350	8.7	12.9	310	12.0	289
	n	24	0.350	8.7	12.9	310	12.0	289
	all	48	0.350	8.7	12.9	620	12.0	577
Ceilings								
16B-50ad: Attic ceiling, asphalt shingles roof mat, r-50 cell ins, 1/2" gypsum board int fnsh		463	0.020	50.0	0.74	342	1.16	536
Floors								
22A-tp1: Bg floor, light dry soil, on grade depth		184	0.989	0	36.5	6715	0	0

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
San Antonio Intl, TX, US		Indoor temperature (°F)		70	75
Elevation: 789 ft		Design TD (°F)		37	23
Latitude: 30°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		33.5	23.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	33	98	Method	Simplified	
Daily range (°F)	-	20 (M)	Construction quality	Average	
Wet bulb (°F)	-	74	Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	Gain	
		ft²	Btuh/ft²·F	ft²·F/Btuh	Btuh/ft²	Btuh	Btuh	
Walls								
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum	n	356	0.091	13.0	3.36	1194	2.67	949
board int fnsh, 2"x4" wood frm, 16" o.c. stud	e	429	0.091	13.0	3.36	1441	2.67	1146
	s	299	0.091	13.0	3.36	1002	2.67	797
	w	399	0.091	13.0	3.36	1340	2.67	1066
	all	1482	0.091	13.0	3.36	4976	2.67	3958

Partitions (none)

Windows

2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, insulated vinyl frm	e	30	0.300	0	11.1	332	30.8	924
mat, clr inner, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head	s	57	0.300	0	11.1	631	13.6	776
ht	w	60	0.300	0	11.1	664	30.8	1848
	all	147	0.300	0	11.1	1627	24.1	3549

Doors (none)

Ceilings

16B-50ad: Attic ceiling, asphalt shingles roof mat, r-50 cell ins, 1/2" gypsum board int fnsh		1366	0.020	50.0	0.74	1008	1.16	1580
-----------------------------------------------------------------------------------------------	--	------	-------	------	------	------	------	------

Floors

20P-19c: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-19 cav ins, gar ovr		327	0.050	19.0	1.85	602	0.89	291
-------------------------------------------------------------------------------	--	-----	-------	------	------	-----	------	-----



Vineland, NJ 08361

Project Information

For: San Antonio, TX

Notes:

Design Information

Weather: San Antonio Intl, TX, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method

Heating Summary

Structure	27460 Btu/h
Ducts (R-6.0)	10043 Btu/h
Central vent (154 cfm)	2423 Btu/h
Humidification	0 Btu/h
Piping	0 Btu/h
Equipment load	39925 Btu/h

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	1 (Semi-tight)

	Heating	Cooling
Area (ft ²)	2869	2869
Volume (ft ³)	27322	27322
Air changes/hour	0.18	0.08
Equiv. AVF (cfm)	81	36

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
AHRI ref	n/a

Efficiency	n/a
Heating input	
Heating output	0 Btu/h
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btu/h
Static pressure	0 in H2O
Space thermostat	n/a

Summer Design Conditions

Outside db	98 °F
Inside db	75 °F
Design TD	23 °F
Daily range	M
Relative humidity	50 %
Moisture difference	23 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	25646 Btu/h
Ducts (R-6.0)	13599 Btu/h
Central vent (154 cfm)	1491 Btu/h
Blower	0 Btu/h
Use manufacturer's data	n
Rate/swing multiplier	1.03
Equipment sensible load	41836 Btu/h

Latent Cooling Equipment Load Sizing

Structure	1559 Btu/h
Ducts	1623 Btu/h
Central vent (154 cfm)	1177 Btu/h
Equipment latent load	3182 Btu/h

Equipment Total Load (Sen+Lat)	45018 Btu/h
Req. total capacity at 0.70 SHR	5.0 ton

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 Btu/h
Latent cooling	0 Btu/h
Total cooling	0 Btu/h
Actual air flow	0 cfm
Air flow factor	0 cfm/Btu/h
Static pressure	0 in H2O
Load s sensible heat ratio	0

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



Project Information

For: San Antonio, TX

Notes:

Design Information

Weather: San Antonio Intl, TX, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method ASHRAE 62.2-2019

Summer Design Conditions

Outside db	98 °F
Inside db	75 °F
Design TD	23 °F
Daily range	M
Relative humidity	50 %
Moisture difference	23 gr/lb

Heating Summary

Structure	17581 Btuh
Ducts (R-6.0)	5672 Btuh
Central vent (SER=60% 83 cfm)	1303 Btuh
Energy recovery	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	24557 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft ²)	1503	1503
Volume (ft ³)	15028	15028
Air changes/hour	0.16	0.07
Equiv. AVF (cfm)	39	18

Heating Equipment Summary

Make	Carrier
Trade	PERFORMANCE 15 SEER2 HP
Model	25SPA536AC0300
AHRI ref	213304009
Efficiency	7.5 HSPF2
Heating input	
Heating output	34000 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	1140 cfm
Air flow factor	0.049 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	
Capacity balance point = 26 °F	

Sensible Cooling Equipment Load Sizing

Structure	14609 Btuh
Ducts (R-6.0)	7734 Btuh
Central vent (SER=60% 83 cfm)	802 Btuh
Energy recovery	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.03
Equipment sensible load	23770 Btuh

Latent Cooling Equipment Load Sizing

Structure	1269 Btuh
Ducts	924 Btuh
Central vent (LER=50% 83 cfm)	633 Btuh
Energy recovery	
Equipment latent load	2826 Btuh

Equipment Total Load (Sen+Lat)	26595 Btuh
Req. total capacity at 0.70 SHR	2.8 ton

Cooling Equipment Summary

Make	Carrier
Trade	PERFORMANCE 15 SEER2 HP
Cond	25SPA536AC0300
Coil	F54AAXB36L
AHRI ref	213304009
Efficiency	12.0 EER2, 14.3 SEER2
Sensible cooling	23940 Btuh
Latent cooling	10260 Btuh
Total cooling	34200 Btuh
Actual air flow	1140 cfm
Air flow factor	0.051 cfm/Btuh
Static pressure	0 in H2O
Load s sensible heat ratio	0.89

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

Project Information

For: San Antonio, TX

Notes:

Design Information

Weather: San Antonio Intl, TX, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method ASHRAE 62.2-2019

Heating Summary

Structure	9879 Btuh
Ducts (R-6.0)	4370 Btuh
Central vent (SER=60% 71 cfm)	1120 Btuh
Energy recovery	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	15369 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft ²)	1366	1366
Volume (ft ³)	12294	12294
Air changes/hour	0.21	0.09
Equiv. AVF (cfm)	42	19

Heating Equipment Summary

Make	Carrier
Trade	PERFORMANCE 15 SEER2 HP
Model	25SPA530AC0300
AHRI ref	213300250
Efficiency	7.8 HSPF2
Heating input	
Heating output	28000 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	920 cfm
Air flow factor	0.065 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	
Capacity balance point =	18 °F

Summer Design Conditions

Outside db	98 °F
Inside db	75 °F
Design TD	23 °F
Daily range	M
Relative humidity	50 %
Moisture difference	23 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	11085 Btuh
Ducts (R-6.0)	5890 Btuh
Central vent (SER=60% 71 cfm)	689 Btuh
Energy recovery	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.03
Equipment sensible load	18141 Btuh

Latent Cooling Equipment Load Sizing

Structure	290 Btuh
Ducts	699 Btuh
Central vent (LER=50% 71 cfm)	544 Btuh
Energy recovery	
Equipment latent load	1533 Btuh

Equipment Total Load (Sen+Lat)	19674 Btuh
Req. total capacity at 0.70 SHR	2.2 ton

Cooling Equipment Summary

Make	Carrier
Trade	PERFORMANCE 15 SEER2 HP
Cond	25SPA530AC0300
Coil	F54AAXB36L
AHRI ref	213300250
Efficiency	12.5 EER2, 14.5 SEER2
Sensible cooling	19320 Btuh
Latent cooling	8280 Btuh
Total cooling	27600 Btuh
Actual air flow	920 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0 in H2O
Load s ensib le heat ratio	0.92

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

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:

San Antonio Intl, TX, US
 Elevation: 789 ft
 Latitude: 30°N

Indoor:

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

Heating

70
 37
 50
 33.5

Cooling

75
 23
 50
 23.2

Outdoor:

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

Heating

33
 -
 -
 15.0

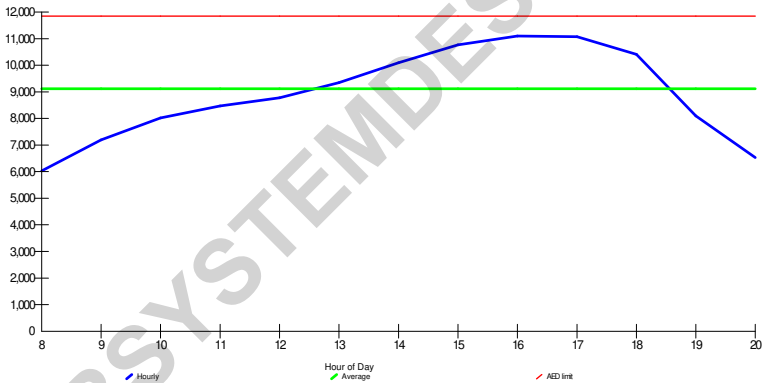
Cooling

98
 20 (M)
 74
 7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 21.8%

House has adequate exposure diversity (AED), based on AED limit of 30%

AED excursion: 0 Btuh

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:

San Antonio Intl, TX, US
 Elevation: 789 ft
 Latitude: 30°N

Indoor:

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

Heating

70
 37
 50
 33.5

Cooling

75
 23
 50
 23.2

Outdoor:

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

Heating

33
 -
 -
 15.0

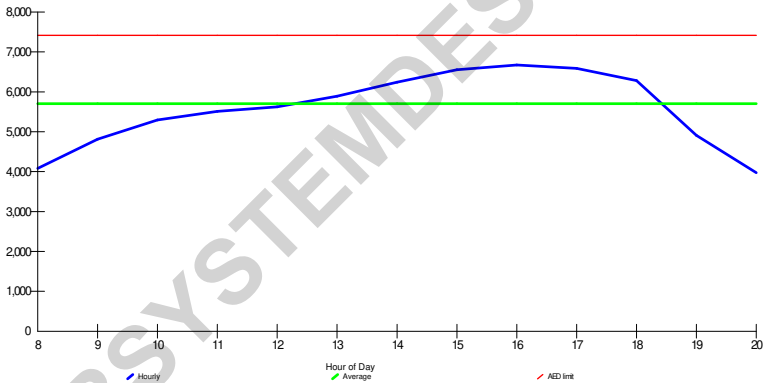
Cooling

98
 20 (M)
 74
 7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 16.9%

Zone has adequate exposure diversity (AED), based on AED limit of 30%

AED excursion: 0 Btuh

Vineland, NJ 08361

Project Information

For: San Antonio, TX

Design Conditions

Location:

San Antonio Intl, TX, US
 Elevation: 789 ft
 Latitude: 30°N

Indoor:

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

Heating

70
 37
 50
 33.5

Cooling

75
 23
 50
 23.2

Outdoor:

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

Heating

33
 -
 -
 15.0

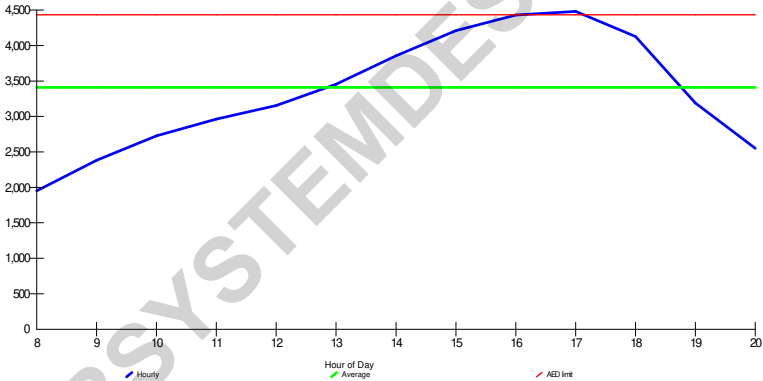
Cooling

98
 20 (M)
 74
 7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 31.4%

Zone does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 48 Btu/h (PFG - 1.3*AFG)



Right-J® Worksheet
Entire House
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		Entire House				SYSTEM 1								
2 Exposed wall		365.0 ft				184.0 ft								
3 Room height		9.5 ft				d								
4 Room dimensions		2868.8 ft²				1502.8 ft²								
5 Room area														
Ty	Construction number	U-v 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	12C-0sw	0.091	n	3.36	2.67	751	619	2077	1652	395	263	883	702
	G	2 glazing, clr low-e	0.300	n	11.07	12.02	132	0	1461	1586	132	0	1461	1586
	W	12C-0sw	0.091	e	3.36	2.67	864	770	2586	2057	405	341	1145	911
	G	2 glazing, clr low-e	0.300	e	11.07	30.80	94	0	1041	2896	64	0	708	1972
	W	12C-0sw	0.091	s	3.36	2.67	541	424	1422	1113	185	125	420	334
	G	2 glazing, clr low-e	0.300	s	11.07	13.22	93	0	1030	1266	36	0	339	490
	D	11N0	0.350	s	12.91	12.02	24	24	310	289	24	24	310	289
	W	12C-0sw	0.091	w	3.36	2.67	984	852	2861	2276	525	453	1521	1210
	G	2 glazing, clr low-e	0.300	w	11.07	30.80	84	0	930	2588	24	0	266	739
	G	2 glazing, clr low-e	0.300	w	11.07	21.56	48	0	531	1035	48	0	531	1035
	P	12C-0sw	0.091	-	3.36	1.77	330	306	1028	542	330	306	1028	542
	D	11N0	0.350	n	12.91	12.02	24	24	310	289	24	24	310	289
	C	16B-50ad	0.020	-	0.74	1.16	1829	1829	1350	2116	463	463	342	536
	F	20P-19c	0.050	-	1.85	0.89	327	327	602	291	0	0	0	0
	F	22A-1pl	0.989	-	36.49	0.00	1503	184	6715	0	1503	184	6715	0
6	c) AED excursion									0				0
	Env elope loss/gain								24253	20012			16039	10634
12	a) Infiltration								3207	884			1543	425
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @		230		5		1150	3600	5		1150	2400
			Appliances/other											
	Subtotal (lines 6 to 13)								27460	25646			17581	14609
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								27460	25646			17581	14609
15	Duct loads								10043	13599	32%	53%	5672	7734
	Total room load								37502	39245			23254	22343
	Air required (cfm)								2060	2060			1140	1140

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



...hellicub4211 Honeycomb Dr.4211 Honeycomb Dr.rup Calc = MJ8 Front Door f aces: S

Right-Suite® Universal 2024.24.0.03 RSU64913

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Page 1

Vineland, NJ 08361

1 Room name		SYSTEM 2												
2 Exposed wall		181.0 ft												
3 Room height		9.0 ft												
4 Room dimensions		d												
5 Room area		1366.0 ft²												
Ty	Construction number	U-v value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load		
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W 12C-0sw	0.091	n	3.36	2.67	356	356	119.4	949					
	G 2 glazing, clr low-e	0.300	n	11.07	12.02	0	0	0	0					
	W 12C-0sw	0.091	e	3.36	2.67	459	429	144.1	1146					
	G 2 glazing, clr low-e	0.300	e	11.07	30.80	30	0	332	924					
11	W 12C-0sw	0.091	s	3.36	2.67	356	299	100.2	797					
	G 2 glazing, clr low-e	0.300	s	11.07	13.52	57	0	631	776					
	D 11N-0	0.350	s	12.91	12.02	0	0	0	0					
	W 12C-0sw	0.091	w	3.36	2.67	459	399	134.0	1066					
	G 2 glazing, clr low-e	0.300	w	11.07	30.80	60	0	664	1848					
	G 2 glazing, clr low-e	0.300	w	11.07	21.56	0	0	0	0					
	P 12C-0sw	0.091	-	3.36	1.77	0	0	0	0					
	D 11N-0	0.350	n	12.91	12.02	0	0	0	0					
	C 16B-50ad	0.020	-	0.74	1.16	1366	1366	100.8	158.0					
	F 20P-19c	0.050	-	1.85	0.89	327	327	60.2	29.1					
	F 22A-1pl	0.989	-	36.49	0.00	0	0	0	0					
6	c) AED excursion										48			
	Envelope loss/gain										821.4	942.6		
12	a) Infiltration										166.4	459		
	b) Room ventilation										0	0		
13	Internal gains: Occupants @ 230										0			
	Appliances/other											120.0		
	Subtotal (lines 6 to 13)										987.9	1108.5		
	Less external load										0	0		
	Less transfer										0	0		
	Redistribution										0	0		
14	Subtotal										987.9	1108.5		
15	Duct loads										44%	53%	437.0	589.0
	Total room load										1424.9	1697.5		
	Air required (cf.m)										920	920		

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



Right-J® Worksheet
SYSTEM 1
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		SYSTEM 1						FIRST FLOOR								
2 Exposed wall		10.0 ft						184.0 ft								
3 Room height		d						10.0 ft								
4 Room dimensions		1502.8 ft²						1502.8 ft² x 1.0								
5 Room area								heat/cool								
Ty	Construction number	U-v 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 12C-0sw	0.091	n	3.36	2.67	395	263	883	702	395	263	883	702			
	G 2 glazing, clr low-e	0.300	n	11.07	12.02	132	0	1461	1586	132	0	1461	1586			
	W 12C-0sw	0.091	e	3.36	2.67	405	341	1145	911	405	341	1145	911			
	G 2 glazing, clr low-e	0.300	e	11.07	30.80	64	0	708	1972	64	0	708	1972			
	W 12C-0sw	0.091	s	3.36	2.67	185	125	420	354	185	125	420	354			
	G 2 glazing, clr low-e	0.300	s	11.07	13.82	36	0	399	490	36	0	399	490			
	D 11N0	0.350	s	12.91	12.02	24	24	310	289	24	24	310	289			
	W 12C-0sw	0.091	w	3.36	2.67	525	453	1521	1210	525	453	1521	1210			
	G 2 glazing, clr low-e	0.300	w	11.07	30.80	24	0	266	739	24	0	266	739			
	W 12C-0sw	0.091	w	11.07	21.56	48	0	531	1035	48	0	531	1035			
	G 2 glazing, clr low-e	0.300	w	11.07	21.56	48	0	531	1035	48	0	531	1035			
	P 12C-0sw	0.091	-	3.36	1.77	330	306	1028	542	330	306	1028	542			
	D 11N0	0.350	n	12.91	12.02	24	24	310	289	24	24	310	289			
	C 16B-50ad	0.020	-	0.74	1.16	463	463	342	536	463	463	342	536			
	F 20P-19c	0.050	-	0.00	0.00	0	0	0	0	0	0	0	0			
	F 22A-1pl	0.989	-	36.49	0.00	1503	184	6715	0	1503	184	6715	0			
6	c) AED excursion															
	Env elope loss/gain								16039		10634		16039		10634	
12	a) Infiltration								1543		425		1543		425	
	b) Room ventilation								0		0		0		0	
13	Internal gains:				Occupants @ 230		5		1150		5		1150		2400	
					Appliances/other				2400				2400			
	Subtotal (lines 6 to 13)															
									17581		14609		17581		14609	
	Less external load															
	Less transfer								0		0		0		0	
	Redistribution								0		0		0		0	
14	Subtotal								17581		14609		17581		14609	
15	Duct loads								32%		53%		32%		53%	
									5672		7734		5672		7734	
	Total room load															
	Air required (cfm)								23254		22343		23254		22343	
									1140		1140		1140		1140	

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



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Right-J® Worksheet
SYSTEM 2
B&B System Design

Job:
Date: Dec 26, 2024
By: Bobby Blough

Vineland, NJ 08361

		SYSTEM 2				SECOND FLOOR								
1	Room name	181.0 ft				181.0 ft								
2	Exposed wall	9.0 ft				9.0 ft								
3	Room height	d				1.0 x 1366.0 ft								
4	Room dimensions	1366.0 ft²				1366.0 ft²								
5	Room area	1366.0 ft²				1366.0 ft²								
	Ty	Construction number	U-v alue (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	12C-0sw	0.091	n	3.36	2.67	356	356	119.4	949	356	356	1194	949
	G	2 glazing, clr low-e	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.36	2.67	459	429	144.1	1146	459	429	1441	1146
	G	2 glazing, clr low-e	0.300	e	11.07	30.80	30	30	332	924	30	30	332	924
	W	12C-0sw	0.091	s	3.36	2.67	356	299	100.2	797	356	299	1002	797
	G	2 glazing, clr low-e	0.300	s	11.07	13.62	57	0	631	776	57	0	631	776
	D	11N-0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.36	2.67	459	399	134.0	1066	459	399	1340	1066
	G	2 glazing, clr low-e	0.300	w	11.07	30.80	60	0	664	1848	60	0	664	1848
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N-0	0.350	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-50ad	0.020	-	0.74	1.16	1366	1366	100.8	158.0	1366	1366	100.8	158.0
	F	20P-19c	0.050	-	1.85	0.89	327	327	602	291	327	327	602	291
	F	22A-1pl	0.989	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								48					48
	Env elope loss/gain							8214	9426			8214	9426	
12	a) Infiltration							1664	459			1664	459	
	b) Room ventilation							0	0			0	0	
13	Internal gains:		Occupants @		230		0		0	0	0		0	1200
			Appliances/other						1200					1200
	Subtotal (lines 6 to 13)							9879	11085			9879	11085	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							9879	11085			9879	11085	
15	Duct loads						44%	53%	4370	5890	44%	53%	4370	5890
	Total room load							14249	16975			14249	16975	
	Air required (cfm)							920	920			920	920	

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



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