

Manual S Compliance Report

(Rest of House)

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	6799 Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	885 Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	7683 Btuh		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH09LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	6750 Btuh		99% of load		
Latent capacity:	2250 Btuh		254% of load		
Total capacity:	9000 Btuh		117% of load	SHR:	75%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	7357 Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH09LPAS		
Actual airflow:	300 cfm				
Output capacity:	10000 Btuh		136% of load	Capacity balance:	14 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
Apartment 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	5534 Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	746 Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	6280 Btuh		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH09LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	6300 Btuh		114% of load		
Latent capacity:	2700 Btuh		362% of load		
Total capacity:	9000 Btuh		143% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	5727 Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH09LPAS		
Actual airflow:	300 cfm				
Output capacity:	10000 Btuh		175% of load	Capacity balance:	8.2 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
APARTMENT 1 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	1326 Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	94 Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	1420 Btuh		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	4900 Btuh		370% of load		
Latent capacity:	2100 Btuh		2229% of load		
Total capacity:	7000 Btuh		493% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	2936 Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Output capacity:	0 Btuh		0% of load	Capacity balance:	-6 °F
Supplemental heat required:	2936 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
APARTMENT 1 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	377 Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	28 Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	404 Btuh		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	4900 Btuh		1301% of load		
Latent capacity:	2100 Btuh		7578% of load		
Total capacity:	7000 Btuh		1731% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	1098 Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Output capacity:	0 Btuh		0% of load	Capacity balance:	-20 °F
Supplemental heat required:	1098 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
APARTMENT 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	5594 Btuh	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	559 Btuh	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	6153 Btuh		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU18RLXFZ+ASUH09LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	6750 Btuh		121% of load		
Latent capacity:	2250 Btuh		403% of load		
Total capacity:	9000 Btuh		146% of load	SHR:	75%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	6282 Btuh	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU18RLXFZ+ASUH09LPAS		
Actual airflow:	300 cfm				
Output capacity:	10000 Btuh		159% of load	Capacity balance:	10 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
APARTMENT 2 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	1329 Btu/h	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	87 Btu/h	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	1416 Btu/h		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU18RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	4900 Btu/h		369% of load		
Latent capacity:	2100 Btu/h		2419% of load		
Total capacity:	7000 Btu/h		495% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	2781 Btu/h	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU18RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Output capacity:	0 Btu/h		0% of load	Capacity balance:	-7 °F
Supplemental heat required:	2781 Btu/h			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
APARTMENT 3 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	2052 Btu/h	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	179 Btu/h	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	2231 Btu/h		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	4900 Btu/h		239% of load		
Latent capacity:	2100 Btu/h		1172% of load		
Total capacity:	7000 Btu/h		314% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	3759 Btu/h	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Output capacity:	0 Btu/h		0% of load	Capacity balance:	-1 °F
Supplemental heat required:	3759 Btu/h			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.



Manual S Compliance Report
APARTMENT 3 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Cooling Equipment

Design Conditions

Outdoor design DB:	89.8°F	Sensible gain:	1151 Btu/h	Entering coil DB:	75.0°F
Outdoor design WB:	73.2°F	Latent gain:	94 Btu/h	Entering coil WB:	62.5°F
Indoor design DB:	75.0°F	Total gain:	1246 Btu/h		
Indoor RH:	50%	Estimated airflow:	300 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Sensible capacity:	4900 Btu/h		426% of load		
Latent capacity:	2100 Btu/h		2229% of load		
Total capacity:	7000 Btu/h		562% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	15.7°F	Heat loss:	2151 Btu/h	Entering coil DB:	70.0°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Fujitsu	Model:	AOU24RLXFZ+ASUH07LPAS		
Actual airflow:	300 cfm				
Output capacity:	0 Btu/h		0% of load	Capacity balance:	-12 °F
Supplemental heat required:	2151 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) (Rest of House)

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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 7357 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 6799 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 885 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 7683 Btuh

Winter Design Conditions

Outdoor Winter Temp 16 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 54 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU24RLXFZ+ASUH09LPAS

Output 10000 Btuh Sizing Value 7357 Btuh
Supplemental 0 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 135.9 %

Model AOU24RLXFZ+ASUH09LPAS

Sensible 6750 Btuh Sizing Value 7683 Btuh
Latent 2250 Btuh Sizing Limit 115.0 %
Total 9000 Btuh Load: Capacity 117.1 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 184 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) 0.25 in H2O	Total Effective Length (TEL) 268 ft	<input type="checkbox"/> Flex <input type="checkbox"/> Lined Sheet Metal <input type="checkbox"/> Other
Available static pressure (ASP) -0.3 in H2O	Friction Rate -0.1 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? Yes No

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) Apartment 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 5727 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 5534 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 746 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 6280 Btuh

Winter Design Conditions

Outdoor Winter Temp 16 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 54 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU24RLXFZ+ASUH09LPAS

Output 10000 Btuh Sizing Value 5727 Btuh
Supplemental 0 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 174.6 %

Model AOU24RLXFZ+ASUH09LPAS

Sensible 6300 Btuh Sizing Value 6280 Btuh
Latent 2700 Btuh Sizing Limit 115.0 %
Total 9000 Btuh Load: Capacity 143.3 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 124 ft	Duct Materials Used
External Static Pressure (ESP) 0 in H2O	Longest Return Duct 0 ft	Trunk Duct: <input type="checkbox"/> Duct Board <input type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 124 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? Yes No

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) APARTMENT 1 BED 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 2936 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 1326 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 94 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 1420 Btuh

Winter Design Conditions

Outdoor Winter Temp 16 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 54 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU24RLXFZ+ASUH07LPAS

Output 0 Btuh Sizing Value 2936 Btuh
Supplemental 2936 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 0 %

Model AOU24RLXFZ+ASUH07LPAS

Sensible 4900 Btuh Sizing Value 1420 Btuh
Latent 2100 Btuh Sizing Limit 115.0 %
Total 7000 Btuh Load: Capacity 492.9 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 152 ft	Duct Materials Used
External Static Pressure (ESP) 0 in H2O	Longest Return Duct 154 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) 306 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? Yes No

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) APARTMENT 1 BED 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 1098 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 377 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 28 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 404 Btuh
Winter Design Conditions		
Outdoor Winter Temp 16 °F		
Indoor Winter Temp 70 °F		
Heating Temp Diff 54 °F		

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU24RLXFZ+ASUH07LPAS
Output 0 Btuh Sizing Value 1098 Btuh
Supplemental 1098 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 0 %

Model AOU24RLXFZ+ASUH07LPAS
Sensible 4900 Btuh Sizing Value 404 Btuh
Latent 2100 Btuh Sizing Limit 115.0 %
Total 7000 Btuh Load: Capacity 1731.0 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 96 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 type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 180 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? Yes No

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) APARTMENT 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 6282 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 5594 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 559 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 6153 Btuh

Winter Design Conditions

Outdoor Winter Temp 16 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 54 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU18RLXFZ+ASUH09LPAS

Output 10000 Btuh Sizing Value 6282 Btuh
Supplemental 0 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 159.2 %

Model AOU18RLXFZ+ASUH09LPAS

Sensible 6750 Btuh Sizing Value 6153 Btuh
Latent 2250 Btuh Sizing Limit 115.0 %
Total 9000 Btuh Load: Capacity 146.3 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 208 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) 292 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? Yes No

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) APARTMENT 2 BED 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 2781 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 1329 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 87 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 1416 Btuh

Winter Design Conditions

Outdoor Winter Temp 16 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 54 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU18RLXFZ+ASUH07LPAS

Output 0 Btuh Sizing Value 2781 Btuh
Supplemental 2781 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 0 %

Model AOU18RLXFZ+ASUH07LPAS

Sensible 4900 Btuh Sizing Value 1416 Btuh
Latent 2100 Btuh Sizing Limit 115.0 %
Total 7000 Btuh Load: Capacity 494.5 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 132 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 type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 216 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? Yes No

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) APARTMENT 3 BED 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 3759 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	Sensible Heat Gain 2052 Btuh
Latitude 40 °N	Cooling Temp Diff 15 °F	Latent Heat Gain 179 Btuh
	Indoor Summer Design RH 50 %	Total Heat Gain 2231 Btuh
	Coincident Wet Bulb Temp 73 °F	
Winter Design Conditions		
Outdoor Winter Temp 16 °F		
Indoor Winter Temp 70 °F		
Heating Temp Diff 54 °F		

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU24RLXFZ+ASUH07LPAS

Output 0 Btuh	Sizing Value 3759 Btuh
Supplemental 3759 Btuh	Sizing Limit 500.0 %
Heat Load: Capacity 0 %	

Model AOU24RLXFZ+ASUH07LPAS

Sensible 4900 Btuh	Sizing Value 2231 Btuh
Latent 2100 Btuh	Sizing Limit 115.0 %
Total 7000 Btuh	Load: Capacity 313.8 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 122 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 type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 206 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? Yes No

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) APARTMENT 3 BED 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 190 ft	Outdoor Cooling Temp 90 °F	Total Heat Loss 2151 Btuh
Altitude Correction Factor 0.99	Indoor Cooling Temp 75 °F	
Latitude 40 °N	Cooling Temp Diff 15 °F	Sensible Heat Gain 1151 Btuh
	Indoor Summer Design RH 50 %	Latent Heat Gain 94 Btuh
	Coincident Wet Bulb Temp 73 °F	Total Heat Gain 1246 Btuh

Winter Design Conditions

Outdoor Winter Temp 16 °F
Indoor Winter Temp 70 °F
Heating Temp Diff 54 °F

The heat loss/gain was calculated in accordance with ACCA Manual J? Yes No

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 AOU24RLXFZ+ASUH07LPAS

Output 0 Btuh Sizing Value 2151 Btuh
Supplemental 2151 Btuh Sizing Limit 500.0 %
Heat Load: Capacity 0 %

Model AOU24RLXFZ+ASUH07LPAS

Sensible 4900 Btuh Sizing Value 1246 Btuh
Latent 2100 Btuh Sizing Limit 115.0 %
Total 7000 Btuh Load: Capacity 561.9 %

Size Factor is within Manual S Size Limit? Yes No

Size Factor is within Manual S Size Limit? Yes No

HVAC DUCT DISTRIBUTION DESIGN (IRC M1601.1)

Design airflow 300 cfm	Longest Supply Duct 114 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 type="checkbox"/> Sheet Metal
Component Pressure Loss (CPL) 0 in H2O	Total Effective Length (TEL) 198 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? Yes No

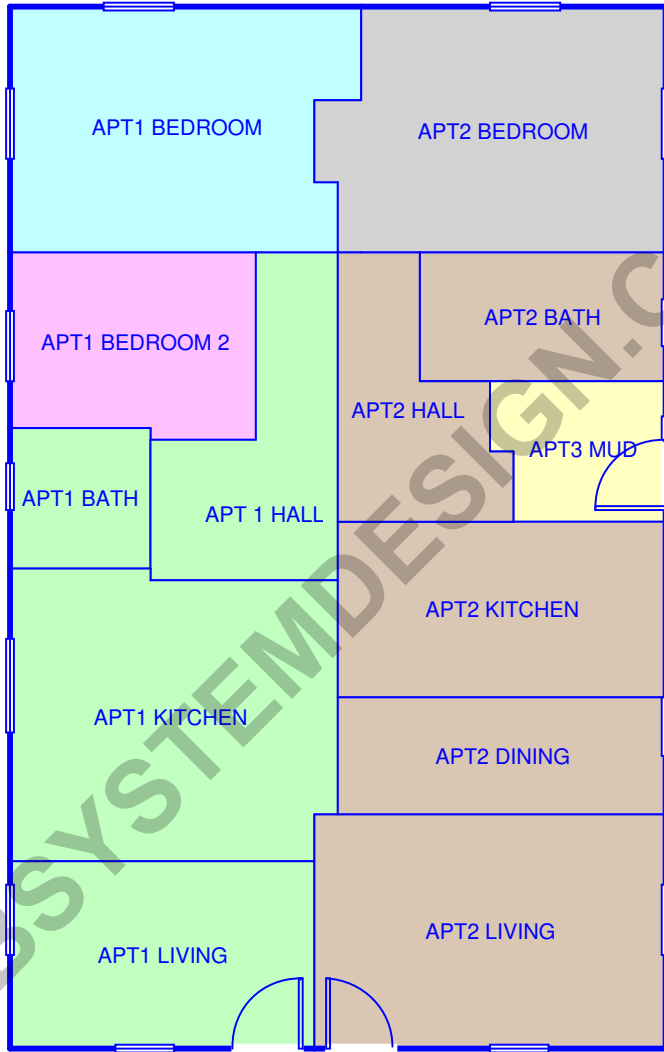
I declare the load calculation, equipment selection, and duct system design were rigorously performed based on the building plan listed above and understand the claims made on these forms may be subject to review and verification.

Contractor's printed name: _____

Contractor's signature: _____ Date: _____



FIRST FLOOR



Job #:
Performed by Bobby Blough for:

Ewing, NJ 08618

B&B System Design

Vineland, NJ 08361

Scale: 1 : 66

Page 1

Right-Suite® Universal 2024

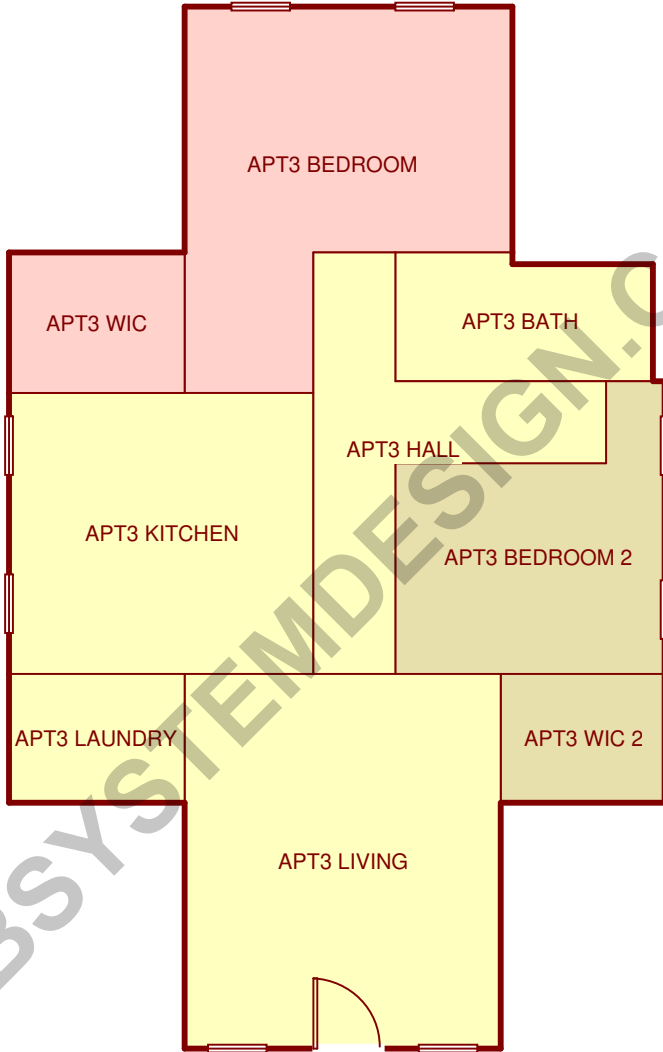
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SECOND FLOOR



Job #:
Performed by Bobby Blough for:

Ewing, NJ 08618

B&B System Design

Vineland, NJ 08361

Scale: 1 : 66

Page 2

Right-Suite® Universal 2024

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room				Entire House				Apartment 1				
2 Running Feet of Exposed Wall				290.0 ft				39.5 ft				
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)				9.0 ft 8298.0 ft ²				9.0 ft 1467.0 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)				2187.0 ft ²				385.0 ft ²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)				0 ° 2187.0 ft ²				0 ° 385.0 ft ²				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	801	3617	1479		239	1030	421	
Glaz	2 glazing, clr low-e	n	16.29	9.26	69	1124	639		30	489	278	
Wall	12C-0sw	e	4.94	2.02	504	2273	929		0	0	0	
Glaz	2 glazing, clr low-e	e	16.29	28.01	44	717	1232		0	0	0	
11 Wall	12C-0sw	s	4.94	2.02	801	3523	1440		0	0	0	
Glaz	2 glazing, clr low-e	s	16.29	14.79	67	1091	991		0	0	0	
Door	11N0	s	19.00	9.52	21	399	200		0	0	0	
Wall	12C-0sw	w	4.94	2.02	504	1981	810		117	425	174	
Glaz	2 glazing, clr low-e	w	16.29	28.01	40	652	1120		10	163	280	
Door	11N0	w	19.00	9.52	21	399	200		0	0	0	
Door	11N0	w	19.00	5.78	42	798	243		21	399	121	
Ceiling	16B-25ad	-	2.06	1.93	1246	2571	2401		79	162	152	
Floor	19A-Obscp	-	6.02	1.64	1246	7498	2044		385	2317	631	
12 Infiltration	Heating Load (Btuh)		0.28		WAR	5449		WAR	742			
	Sensible Load (Btuh)		0.15		1.00		796	1.00		108		
	Latent Load (Btuh)						1071				146	
13 Internal	a Occupants at 230 and 200 Btuh				8	1840	1600	3	690	600		
	b Scenario number					7300			2600			
	c Default Adjustments											
	d Custom Appliances					0	0		0	0		
	e Plants						0			0		
14 Subtotals	Sum lines 6 through 12					32093	23664	2671	5727	5534	746	
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG							0			0	
16 Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0	0	0	0	
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			79		
21 Total Load	Sum lines 13 through 19					32093	23664	2671	5727	5534	746	

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



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Page 1

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			(Rest of House)				APARTMENT 1 BED 2						
2 Running Feet of Exposed Wall			77.0 ft				7.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		2304.0 ft ²		9.0 ft		333.0 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			0 °		607.3 ft ²		0 °		81.0 ft ²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		607.3 ft ²		0 °		81.0 ft ²				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6 Wall	12C-0sw	n	4.94	2.02	252	1171	479		68	274	112		
Glaz	2 glazing, clr low-e	n	16.29	9.26	15	244	139		12	195	111		
Wall	12C-0sw	e	4.94	2.02	54	267	109		0	0	0		
Glaz	2 glazing, clr low-e	e	16.29	28.01	0	0	0		0	0	0		
11 Wall	12C-0sw	s	4.94	2.02	196	840	343		0	0	0		
Glaz	2 glazing, clr low-e	s	16.29	14.79	7	114	104		0	0	0		
Door	11N0	s	19.00	9.52	21	399	200		0	0	0		
Wall	12C-0sw	w	4.94	2.02	189	731	299		0	0	0		
Glaz	2 glazing, clr low-e	w	16.29	28.01	20	326	560		0	0	0		
Door	11N0	w	19.00	9.52	21	399	200		0	0	0		
Door	11N0	w	19.00	5.78	0	0	0		0	0	0		
Ceiling	16B-25ad	-	2.06	1.93	566	1166	1089		0	0	0		
Floor	19A-Obscp	-	6.02	1.64	42	253	69		81	487	133		
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.28		WAR 1.00	1447			WAR 1.00	141			
	Sensible Load (Btuh)		0.15				211			21			
	Latent Load (Btuh)							285				28	
13 Internal	a Occupants at 230 and 200 Btuh				3		690	600	0		0	0	
	b Scenario number						2100				0		
	c Default Adjustments										0		
	d Custom Appliances						0	0			0	0	
	e Plants							0			0	0	
14 Subtotals	Sum lines 6 through 12						7357	6799	885		1098	377	28
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0		
	ELG							0				0	
16 Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0		0	0	0	
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							207				0		
21 Total Load	Sum lines 13 through 19						7357	6799	885		1098	377	28

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



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Page 2

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 1 BED 1				APARTMENT 2 BED 1					
2 Running Feet of Exposed Wall			25.5 ft				23.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		477.0 ft ²		9.0 ft		459.0 ft ²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					147.5 ft ²				146.5 ft ²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		147.5 ft ²		0 °		146.5 ft ²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	95	408	167		0	0	0	
Glaz	2 glazing, clr low-e	n	16.29	9.26	12	195	111		0	0	0	
Wall	12C-0sw	e	4.94	2.02	135	608	248		117	519	212	
Glaz	2 glazing, clr low-e	e	16.29	28.01	12	195	336		12	195	336	
7 Wall	12C-0sw	s	4.94	2.02	0	0	0		95	408	167	
Glaz	2 glazing, clr low-e	s	16.29	14.79	0	0	0		12	195	178	
Door	11N0	s	19.00	9.52	0	0	0		0	0	0	
Wall	12C-0sw	w	4.94	2.02	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0		0	0	0	
Door	11N0	w	19.00	9.52	0	0	0		0	0	0	
Door	11N0	w	19.00	5.78	0	0	0		0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	79	162	152		68	141	131	
Floor	19A-0bscp	-	6.02	1.64	148	888	242		147	882	240	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.28		WAR 1.00	479			WAR 1.00	442		
	Sensible Load (Btuh)		0.15				70			64		
	Latent Load (Btuh)							94			87	
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	
	b Scenario number					0				0		
	c Default Adjustments											
	d Custom Appliances						0	0		0	0	
	e Plants						0	0			0	
14 Subtotals	Sum lines 6 through 12					2936	1326	94		2781	1329	87
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0	
	ELG							0			0	
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0		0	0	
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					2936	1326	94		2781	1329	87

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 2				APARTMENT 3 BED 1						
2 Running Feet of Exposed Wall			43.0 ft				48.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		1809.0 ft ²		9.0 ft		792.0 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			0 °		444.0 ft ²		0 °		225.0 ft ²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		444.0 ft ²		0 °		225.0 ft ²				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6 Wall	12C-0sw	n	4.94	2.02	0	0	0	0	149	734	300	0	
Glaz	2 glazing, clr low-e	n	16.29	9.26	0	0	0	0	0	0	0	0	
Wall	12C-0sw	e	4.94	2.02	0	0	0	0	194	857	351	0	
Glaz	2 glazing, clr low-e	e	16.29	28.01	0	0	0	0	20	326	560	0	
11 Wall	12C-0sw	s	4.94	2.02	252	1107	453	95	95	467	191	0	
Glaz	2 glazing, clr low-e	s	16.29	14.79	26	456	414	0	0	0	0	0	
Door	11N0	s	19.00	9.52	0	0	0	0	0	0	0	0	
Wall	12C-0sw	w	4.94	2.02	135	514	210	0	0	0	0	0	
Glaz	2 glazing, clr low-e	w	16.29	28.01	10	163	280	0	0	0	0	0	
Door	11N0	w	19.00	9.52	0	0	0	0	0	0	0	0	
Door	11N0	w	19.00	5.78	21	399	121	0	0	0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	79	164	153	225	225	464	433	0	
Floor	19A-0bscp	-	6.02	1.64	444	2672	728	0	0	0	0	0	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.28		WAR 1.00	808			WAR 1.00	911			
	Sensible Load (Btuh)		0.15				118			133			
	Latent Load (Btuh)							159				179	
13 Internal	a Occupants at 230 and 200 Btuh b Scenario number c Default Adjustments d Custom Appliances e Plants				2		460 2600 0	400 0 0	0	0 0 0	0 0 0	0 0 0	
14 Subtotals	Sum lines 6 through 12						6282	5594	559		3759	2052	179
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0		
	ELG							0				0	
16 Ventilation Loads	Vent Cfm	0	E Cfm	0		0	0	0		0	0	0	
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							57				83		
21 Total Load	Sum lines 13 through 19						6282	5594	559		3759	2052	179

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 3 BED 2									
2 Running Feet of Exposed Wall			25.5 ft									
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		657.0 ft ²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					150.8 ft ²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		150.8 ft ²							
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	0	0	0					
Glaz	2 glazing, clr low-e	n	16.29	9.26	0	0	0					
Wall	12C-0sw	e	4.94	2.02	5	22	9					
Glaz	2 glazing, clr low-e	e	16.29	28.01	0	0	0					
11 Wall	12C-0sw	s	4.94	2.02	162	702	287					
Glaz	2 glazing, clr low-e	s	16.29	14.79	20	326	296					
Door	11N0	s	19.00	9.52	0	0	0					
Wall	12C-0sw	w	4.94	2.02	63	311	127					
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0					
Door	11N0	w	19.00	9.52	0	0	0					
Door	11N0	w	19.00	5.78	0	0	0					
Ceiling	16B-25sd	-	2.06	1.93	151	311	290					
Floor	19A-0bscp	-	6.02	1.64	0	0	0					
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.28		WAR 1.00	479						
	Sensible Load (Btuh)		0.15			70						
	Latent Load (Btuh)						94					
13 Internal	a) Occupants at 230 and 200 Btuh				0	0	0					
	b) Scenario number					0						
	c) Default Adjustments											
	d) Custom Appliances					0	0					
	e) Plants						0					
14 Subtotals	Sum lines 6 through 12					2151	1151	94				
15 Duct Loads	EHLF & ESGF		0	0		0	0					
	ELG							0				
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0				
17 Winter Humidification Load	Gal/Day			0		0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							72					
21 Total Load	Sum lines 13 through 19					2151	1151	94				

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
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			(Rest of House)				APT3 BATH					
2 Running Feet of Exposed Wall			77.0 ft				11.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		2304.0 ft²		9.0 ft		297.0 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			607.3 ft²		607.3 ft²		1.0 x 57.5 ft		57.5 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		607.3 ft²		0 °		57.5 ft²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	252	1171	479		0	0	0	
Glaz	2 glazing, clr low-e	n	16.29	9.26	15	244	139		0	0	0	
Wall	12C-0sw	e	4.94	2.02	54	267	109	54	267	109		
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0	0	0	0		
11 Wall	12C-0sw	s	4.94	2.02	196	840	343	50	245	100		
Glaz	2 glazing, clr low-e	s	16.29	14.79	7	114	104	0	0	0		
Door	11N0	s	19.00	9.52	21	399	200	0	0	0		
Wall	12C-0sw	w	4.94	2.02	189	731	299	0	0	0		
Glaz	2 glazing, clr low-e	w	16.29	28.01	20	326	560	0	0	0		
Door	11N0	w	19.00	9.52	21	399	200	0	0	0		
Door	11N0	w	0.00	0.00	0	0	0	0	0	0		
Ceiling	16B-25ad	-	2.06	1.93	565	1166	1089	58	119	111		
Floor	19A-Obscp	-	6.02	1.64	42	253	69	0	0	0		
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.27		WAR 1.00	1447		WAR 0.15	216			
	Sensible Load (Btuh)		0.14			211			32			
	Latent Load (Btuh)						285					
13 Internal	a Occupants at 230 and 200 Btuh				3	690	600	0	0	0		
	b Scenario number					2100			0			
	c Default Adjustments								0			
	d Custom Appliances					0	0		0	0		
	e Plants						0		0	0		
14 Subtotals	Sum lines 6 through 12					7357	6799	885	846	346		
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG						0			0		
16 Ventilation Loads	Vent Cf m	0	E Cf m	0		0	0	0				
17 Winter Humidification Load	Gal/Day		0			0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							207			-5		
21 Total Load	Sum lines 13 through 19					7357	6799	885	846	346		

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



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Right-J8® Form J1
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT3 KITCHEN				APT3 HALL					
2 Running Feet of Exposed Wall			12.0 ft				0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		450.0 ft²		9.0 ft		549.0 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			13.0 x 12.0 ft		156.0 ft²		1.0 x 94.5 ft		94.5 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		156.0 ft²		0 °		94.5 ft²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	108	460	188		0	0	0	
Glaz	2 glazing, clr low-e	n	16.29	9.26	15	244	139		0	0	0	
Wall	12C-0sw	e	4.94	2.02	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0		0	0	0	
11 Wall	12C-0sw	s	4.94	2.02	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	s	16.29	14.79	0	0	0		0	0	0	
Door	11N0	s	19.00	9.52	0	0	0		0	0	0	
Wall	12C-0sw	w	4.94	2.02	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0		0	0	0	
Door	11N0	w	19.00	9.52	0	0	0		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	156	322	301		95	195	182	
Floor	19A-Obscp	-	6.02	1.64	0	0	0		0	0	0	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.27		WAR 0.16	225			WAR 0	0		
	Sensible Load (Btuh)		0.14				33			0		
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	
	b Scenario number					1200				0		
	c Default Adjustments									0		
	d Custom Appliances					0	0	0		0	0	
	e Plants						0	0		0	0	
14 Subtotals	Sum lines 6 through 12					1251	1834		195	179		
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG							0			0	
16 Ventilation Loads	Vent Cf m	0	E Cf m	0								
17 Winter Humidification Load	Gal/Day		0									
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							-27			-3		
21 Total Load	Sum lines 13 through 19					1251	1834		195	179		

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



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Right-J8® Form J1
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT3 LIVING			APT3 LAUNDRY						
2 Running Feet of Exposed Wall			34.5 ft			13.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		531.0 ft ²	9.0 ft		234.0 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			13.5 x 16.0 ft		216.0 ft ²	7.5 x 5.5 ft		41.3 ft ²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		216.0 ft ²	0 °		41.3 ft ²				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	95	467	191		50	245	100	
Glaz	2 glazing, clr low-e	n	16.29	9.26	0	0	0		0	0	0	
Wall	12C-0sw	e	4.94	2.02	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0		0	0	0	
11 Wall	12C-0sw	s	4.94	2.02	95	467	191		0	0	0	
Glaz	2 glazing, clr low-e	s	16.29	14.79	0	0	0		0	0	0	
Door	11N0	s	19.00	9.52	0	0	0		0	0	0	
Wall	12C-0sw	w	4.94	2.02	122	398	163		68	334	136	
Glaz	2 glazing, clr low-e	w	16.29	28.01	20	326	560		0	0	0	
Door	11N0	w	19.00	9.52	21	399	200		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	216	446	416		41	85	79	
Floor	19A-Obscp	-	6.02	1.64	0	0	0		0	0	0	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.27		WAR 0.45	648			WAR 0.17	244		
	Sensible Load (Btuh)		0.14				95			36		
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				3		690	600	0		0	0
	b Scenario number						900				0	
	c Default Adjustments											
	d Custom Appliances						0	0			0	0
	e Plants							0				0
14 Subtotals	Sum lines 6 through 12						3151	3633		908	346	
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0	
	ELG								0			0
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0								
17 Winter Humidification Load	Gal/Day		0									
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load								228				-5
21 Total Load	Sum lines 13 through 19						3151	3633		908	346	

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



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Right-J8® Form J1
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT3 MUD									
2 Running Feet of Exposed Wall			6.0 ft									
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			243.0 ft ²						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 42.0 ft			42.0 ft ²						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			42.0 ft ²						
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	0	0	0					
Glaz	2 glazing, clr low-e	n	16.29	9.26	0	0	0					
Wall	12C-0sw	e	4.94	2.02	0	0	0					
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0					
11 Wall	12C-0sw	s	4.94	2.02	54	128	53					
Glaz	2 glazing, clr low-e	s	16.29	14.79	7	114	104					
Door	11N0	s	19.00	9.52	21	399	200					
Wall	12C-0sw	w	4.94	2.02	0	0	0					
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0					
Door	11N0	w	19.00	9.52	0	0	0					
Door	11N0	w	0.00	0.00	0	0	0					
Ceiling	16B-25ad	-	2.06	1.93	0	0	0					
Floor	19A-Obscp	-	6.02	1.64	42	253	69					
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.27		WAR 0.08	113						
	Sensible Load (Btuh)			0.14			16					
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0					
	b Scenario number					0						
	c Default Adjustments											
	d Custom Appliances					0	0					
	e Plants						0					
14 Subtotals	Sum lines 6 through 12					1007	460					
15 Duct Loads	EHLF & ESGF		0	0		0	0					
	ELG							0				
16 Ventilation Loads	Vent Cf/m	0	E Cf/m	0								
17 Winter Humidification Load	Gal/Day			0								
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							18					
21 Total Load	Sum lines 13 through 19					1007	460					

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



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Right-Suite® Universal 2024 24.0.03 RSU64913

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			Apartment 1				APT 1 HALL					
2 Running Feet of Exposed Wall			39.5 ft				0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft 1467.0 ft ²				9.0 ft 396.0 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			385.0 ft ²				1.0 x 76.0 ft 76.0 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 ° 385.0 ft ²				0 ° 76.0 ft ²					
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	239	1030	421		0	0	0	
Glaz	2 glazing, clr low-e	n	16.29	9.26	30	489	278		0	0	0	
Wall	12C-0sw	e	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0		0	0	0	
11 Wall	12C-0sw	s	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0		0	0	0	
Door	11N0	s	0.00	0.00	0	0	0		0	0	0	
Wall	12C-0sw	w	4.94	2.02	117	425	174		0	0	0	
Glaz	2 glazing, clr low-e	w	16.29	28.01	10	163	280		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Door	11N0	w	19.00	5.78	21	399	121		0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	79	162	152		0	0	0	
Floor	19A-Obscp	-	6.02	1.64	385	2317	631		76	457	125	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.22		WAR 1.00	742			WAR 0	0		
	Sensible Load (Btuh)		0.12				108			0		
	Latent Load (Btuh)							146				
13 Internal	a Occupants at 230 and 200 Btuh				3		690	600	0	0	0	
	b Scenario number						2600			500		
	c Default Adjustments											
	d Custom Appliances						0	0		0	0	
	e Plants							0		0	0	
14 Subtotals	Sum lines 6 through 12					5727	5534	746		457	620	
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0	
	ELG							0			0	
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0				
17 Winter Humidification Load	Gal/Day			0		0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							79			-4		
21 Total Load	Sum lines 13 through 19					5727	5534	746		457	620	

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT1 BATH			APT1 LIVING						
2 Running Feet of Exposed Wall			6.0 ft			21.0 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft			9.0 ft						
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			6.0 x 6.0 ft			13.0 x 8.0 ft						
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °			0 °						
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	54	237	97		72	296	121	
Glaz	2 glazing, clr low-e	n	16.29	9.26	6	98	56		12	195	111	
Wall	12C-0sw	e	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0		0	0	0	
11 Wall	12C-0sw	s	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0		0	0	0	
Door	11N0	s	0.00	0.00	0	0	0		0	0	0	
Wall	12C-0sw	w	4.94	2.02	0	0	0		117	425	174	
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0		10	163	280	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Door	11N0	w	19.00	5.78	0	0	0		21	399	121	
Ceiling	16B-25ad	-	2.06	1.93	0	0	0		60	124	116	
Floor	19A-0bscp	-	6.02	1.64	36	217	59		104	626	171	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.22		WAR 0.15	113			WAR 0.53	395		
	Sensible Load (Btuh)		0.12				16				58	
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0		3	690	600	
	b Scenario number					0				900		
	c Default Adjustments											
	d Custom Appliances					0	0			0	0	
	e Plants						0				0	
14 Subtotals	Sum lines 6 through 12					664	227			2623	2838	
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0	
	ELG								0			0
16 Ventilation Loads	Vent CfM	0	E CfM	0								
17 Winter Humidification Load	Gal/Day			0								
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							-2				97	
21 Total Load	Sum lines 13 through 19					664	227			2623	2838	

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT1 KITCHEN										
2 Running Feet of Exposed Wall			12.5 ft										
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		477.0 ft ²								
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 169.0 ft		169.0 ft ²								
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		169.0 ft ²								
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6 Wall	12C-0sw	n	4.94	2.02	113	497	203						
Glaz	2 glazing, clr low-e	n	16.29	9.26	12	195	111						
Wall	12C-0sw	e	0.00	0.00	0	0	0						
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0						
11 Wall	12C-0sw	s	0.00	0.00	0	0	0						
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0						
Door	11N0	s	0.00	0.00	0	0	0						
Wall	12C-0sw	w	4.94	2.02	0	0	0						
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0						
Door	11N0	w	0.00	0.00	0	0	0						
Door	11N0	w	19.00	5.78	0	0	0						
Ceiling	16B-25ad	-	2.06	1.93	19	39	36						
Floor	19A-0bscp	-	6.02	1.64	169	1017	277						
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.22		WAR 0.32	235							
	Sensible Load (Btuh)		0.12				34						
	Latent Load (Btuh)												
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					1983	1849						
15 Duct Loads	EHLF & ESGF		0	0		0	0						
	ELG							0					
16 Ventilation Loads	Vent Cf/m	0	E Cf/m	0									
17 Winter Humidification Load	Gal/Day		0										
18 Piping Load													
19 Blower Heat													
20 AED Excursion & Latent Moisture Migration Load							-12						
21 Total Load	Sum lines 13 through 19					1983	1849						

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Right-J8® Form J1
APARTMENT 1 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 1 BED 1				APT1 BEDROOM					
2 Running Feet of Exposed Wall			25.5 ft				25.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		477.0 ft²		9.0 ft		477.0 ft²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					147.5 ft²		1.0 x 147.5 ft		147.5 ft²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		147.5 ft²		0 °		147.5 ft²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	95	408	167		95	408	167	
Glaz	2 glazing, clr low-e	n	16.29	9.26	12	195	111		12	195	111	
Wall	12C-0sw	e	4.94	2.02	135	608	248		135	608	248	
Glaz	2 glazing, clr low-e	e	16.29	28.01	12	195	336		12	195	336	
11 Wall	12C-0sw	s	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0		0	0	0	
Door	11N0	s	0.00	0.00	0	0	0		0	0	0	
Wall	12C-0sw	w	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	73	162	152		73	162	152	
Floor	19A-Obscp	-	6.02	1.64	148	888	242		148	888	242	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.37		WAR 1.00	479			WAR 1.00	479		
	Sensible Load (Btuh)		0.20				70				70	
	Latent Load (Btuh)							94				
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0
	b Scenario number					0				0		
	c Default Adjustments											
	d Custom Appliances					0	0	0		0	0	0
	e Plants						0	0			0	0
14 Subtotals	Sum lines 6 through 12					2936	1326	94		2936	1326	
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0	
	ELG							0				0
16 Ventilation Loads	Vent Cf m	0	E Cf m	0		0	0	0				
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					2936	1326	94		2936	1326	

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Right-J8® Form J1
APARTMENT 1 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 1 BED 2			APT1 BEDROOM 2								
2 Running Feet of Exposed Wall			7.5 ft			7.5 ft								
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft	333.0 ft ²		9.0 ft	333.0 ft ²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)				81.0 ft ²		1.0 x 81.0 ft	81.0 ft ²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °	81.0 ft ²		0 °	81.0 ft ²							
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6 Wall	12C-0sw	n	4.94	2.02	68	274	112		68	274	112			
Glaz	2 glazing, clr low-e	n	16.29	9.26	12	195	111		12	195	111			
Wall	12C-0sw	e	0.00	0.00	0	0	0		0	0	0			
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0		0	0	0			
Wall	12C-0sw	s	0.00	0.00	0	0	0		0	0	0			
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0		0	0	0			
Door	11N0	s	0.00	0.00	0	0	0		0	0	0			
Wall	12C-0sw	w	0.00	0.00	0	0	0		0	0	0			
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0		0	0	0			
Door	11N0	w	0.00	0.00	0	0	0		0	0	0			
Door	11N0	w	0.00	0.00	0	0	0		0	0	0			
Ceil	16B-25ad	-	0.00	0.00	0	0	0		0	0	0			
Floor	19A-Obscp	-	6.02	1.64	81	487	133		81	487	133			
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.20		WAR 1.00	141			WAR 1.00	141				
	Sensible Load (Btuh)		0.10					21					21	
	Latent Load (Btuh)									28				
13 Internal	a Occupants at 230 and 200 Btuh			0		0	0	0		0	0			
	b Scenario number					0				0				
	c Default Adjustments													
	d Custom Appliances					0	0	0		0	0	0		
	e Plants						0	0			0	0		
14 Subtotals	Sum lines 6 through 12					1098	377	28		1098	377			
15 Duct Loads	EHLF & ESGF	0		0		0	0			0	0			
	ELG						0				0			
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0				0		
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					1098	377	28		1098	377			

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 2			APT2 BATH						
2 Running Feet of Exposed Wall			43.0 ft			5.5 ft						
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		1809.0 ft²		288.0 ft²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			444.0 ft²		10.5 x 5.5 ft		57.8 ft²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		444.0 ft²		57.8 ft²					
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	e	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0	0	0	0	0	0
11 Wall	12C-0sw	s	4.94	2.02	252	1107	453	50	215	88	89	89
Glaz	2 glazing, clr low-e	s	16.29	14.79	26	456	414	6	98	89	89	89
Door	11N0	s	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	w	4.94	2.02	135	514	210	0	0	0	0	0
Glaz	2 glazing, clr low-e	w	16.29	28.01	10	163	280	0	0	0	0	0
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Door	11N0	w	19.00	5.78	21	399	121	0	0	0	0	0
Ceiling	16B-25ad	-	2.06	1.93	79	164	153	6	12	11	11	11
Floor	19A-Obscp	-	6.02	1.64	444	2672	728	58	348	95	95	95
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.20		WAR 1.00	808		WAR 0.13	103			
	Sensible Load (Btuh)		0.11			118			15			
	Latent Load (Btuh)						159					
13 Internal	a Occupants at 230 and 200 Btuh b Scenario number c Default Adjustments d Custom Appliances e Plants				2	460	400	0	0	0	0	0
						2600			0			
						0	0		0	0	0	0
14 Subtotals	Sum lines 6 through 12					6282	5594	559	775	315		
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG							0				0
16 Ventilation Loads	Vent Cf m	0	E Cf m	0		0	0	0				
17 Winter Humidification Load			Gal/Day	0		0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							57			18		
21 Total Load	Sum lines 13 through 19					6282	5594	559	775	315		

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT2 HALL				APT2 LIVING					
2 Running Feet of Exposed Wall			0 ft				25.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		342.0 ft ²		9.0 ft		450.0 ft ²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 61.3 ft		61.3 ft ²		15.0 x 10.0 ft		150.0 ft ²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		61.3 ft ²		0 °		150.0 ft ²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-C lg	L-C lg		Heating	S-C lg	L-C lg
6 Wall	12C-0sw	n	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	e	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0	0	0	0	0	0
11 Wall	12C-0sw	s	4.94	2.02	0	0	0	90	365	158	158	178
Glaz	2 glazing, clr low-e	s	16.29	14.79	0	0	0	12	195	178	178	178
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	w	4.94	2.02	0	0	0	135	514	210	210	210
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0	10	163	280	280	280
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Door	11N0	w	19.00	5.78	0	0	0	21	399	121	121	121
Ceiling	16B-25ad	-	2.06	1.93	0	0	0	70	144	135	135	135
Floor	19A-Obscp	-	6.02	1.64	61	369	100	150	903	246	246	246
12 Infiltration	Heating Load (Btuh)	Effect	0.20		WAR	0		WAR	470			
	Sensible Load (Btuh)	ACH		0.11	0		0	0.58		69		
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	2	460	400		
	b Scenario number					500			900			
	c Default Adjustments											
	d Custom Appliances						0	0	0	0	0	0
	e Plants							0				
14 Subtotals	Sum lines 6 through 12					369	593		3174	2789		
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG							0				0
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0								
17 Winter Humidification Load	Gal/Day		0									
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load											33	
21 Total Load	Sum lines 13 through 19					369	593		3174	2789		

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT2 KITCHEN				APT2 DINING					
2 Running Feet of Exposed Wall			7.5 ft				5.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		387.0 ft ²		9.0 ft		342.0 ft ²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			14.0 x 7.5 ft		105.0 ft ²		14.0 x 5.0 ft		70.0 ft ²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		105.0 ft ²		0 °		70.0 ft ²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	e	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0	0	0	0	0	0
11 Wall	12C-0sw	s	4.94	2.02	68	334	136	45	173	71	10	163
Glaz	2 glazing, clr low-e	s	16.29	14.79	0	0	0	0	0	0	0	0
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	w	4.94	2.02	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	w	16.29	28.01	0	0	0	0	0	0	0	0
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Door	11N0	w	19.00	5.78	0	0	0	0	0	0	0	0
Ceiling	16B-25ad	-	2.06	1.93	0	0	0	4	7	7	0	0
Floor	19A-Obscp	-	6.02	1.64	105	632	172	70	421	115	0	0
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.20		WAR 0.17	141		WAR 0.12	94			
	Sensible Load (Btuh)		0.11				21		14			
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0
	b Scenario number					1200			0			
	c Default Adjustments											
	d Custom Appliances					0	0	0	0	0	0	0
	e Plants											
14 Subtotals	Sum lines 6 through 12					1106	1511		858	385		
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG							0				0
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0								
17 Winter Humidification Load	Gal/Day		0									
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							-18				31	
21 Total Load	Sum lines 13 through 19					1106	1511		858	385		

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



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Right-J8® Form J1
APARTMENT 2 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 2 BED 1						APT2 BEDROOM					
2 Running Feet of Exposed Wall			23.5 ft						23.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		459.0 ft ²		9.0 ft		459.0 ft ²					
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			146.5 ft ²		146.5 ft ²		1.0 x 146.5 ft		146.5 ft ²					
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		146.5 ft ²		0 °		146.5 ft ²					
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh				
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg		
6 Wall	12C-0sw	n	0.00	0.00	0	0	0	0	0	0	0	0		
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0	0	0	0	0	0		
Wall	12C-0sw	e	4.94	2.02	117	519	212	117	519	212	117	519		
Glaz	2 glazing, clr low-e	e	16.29	28.01	12	195	336	12	195	336	12	195		
Wall	12C-0sw	s	4.94	2.02	95	408	167	95	408	167	95	408		
Glaz	2 glazing, clr low-e	s	16.29	14.79	12	195	178	12	195	178	12	195		
Door	11N0	s	0.00	0.00	0	0	0	0	0	0	0	0		
Wall	12C-0sw	w	0.00	0.00	0	0	0	0	0	0	0	0		
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0	0	0	0	0	0		
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0		
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0		
Ceiling	16B-25ad	-	2.06	1.93	68	141	131	68	141	131	68	141		
Floor	19A-Obscp	-	6.02	1.64	147	882	240	147	882	240	147	882		
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.34		WAR 1.00	442		WAR 1.00	442					
	Sensible Load (Btuh)		0.18				64			64				
	Latent Load (Btuh)							87						
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0		
	b Scenario number					0				0				
	c Default Adjustments													
	d Custom Appliances									0		0		
	e Plants									0		0		
14 Subtotals	Sum lines 6 through 12					2781	1329	87	2781	1329				
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0				
	ELG							0				0		
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0						
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					2781	1329	87	2781	1329				

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



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Right-J8® Form J1
APARTMENT 3 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 3 BED 1				APT3 BEDROOM					
2 Running Feet of Exposed Wall			48.5 ft				35.0 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		792.0 ft ²		9.0 ft		549.0 ft ²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					225.0 ft ²		1.0 x 180.0 ft		180.0 ft ²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		225.0 ft ²		0 °		180.0 ft ²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	4.94	2.02	149	734	300		95	467	191	
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0		0	0	0	
Wall	12C-0sw	e	4.94	2.02	194	857	351		126	524	214	
Glaz	2 glazing, clr low-e	e	16.29	28.01	20	326	560		20	326	560	
Wall	12C-0sw	s	4.94	2.02	95	467	191		95	467	191	
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0		0	0	0	
Door	11N0	s	0.00	0.00	0	0	0		0	0	0	
Wall	12C-0sw	w	0.00	0.00	0	0	0		0	0	0	
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Door	11N0	w	0.00	0.00	0	0	0		0	0	0	
Ceiling	16B-25ad	-	2.06	1.93	225	464	433		180	371	347	
Floor	19A-Obscp	-	0.00	0.00	0	0	0		0	0	0	
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.46		WAR 1.00	911			WAR 0.72	658		
	Sensible Load (Btuh)		0.24				133				96	
	Latent Load (Btuh)							179				
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0
	b Scenario number					0				0		
	c Default Adjustments											
	d Custom Appliances					0	0	0		0	0	0
	e Plants							0				0
14 Subtotals	Sum lines 6 through 12					3759	2052	179		2813	1682	
15 Duct Loads	EHLF & ESGF		0	0		0	0			0	0	
	ELG							0				0
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0				
17 Winter Humidification Load	Gal/Day		0			0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							83				83	
21 Total Load	Sum lines 13 through 19					3759	2052	179		2813	1682	

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



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Right-J8® Form J1
APARTMENT 3 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room						APT3 WIC							
2 Running Feet of Exposed Wall						13.5 ft							
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)						9.0 ft			243.0 ft ²				
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)						7.5 x 6.0 ft			45.0 ft ²				
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)						0 °			45.0 ft ²				
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh			
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg	
6 Wall	12C-0sw	n	4.94	2.02	54	267	109						
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0						
Wall	12C-0sw	e	4.94	2.02	68	334	136						
Glaz	2 glazing, clr low-e	e	16.29	28.01	0	0	0						
11 Wall	12C-0sw	s	4.94	2.02	0	0	0						
Glaz	2 glazing, clr low-e	s	0.00	0.00	0	0	0						
Door	11N0	s	0.00	0.00	0	0	0						
Wall	12C-0sw	w	0.00	0.00	0	0	0						
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0						
Door	11N0	w	0.00	0.00	0	0	0						
Door	11N0	w	0.00	0.00	0	0	0						
Ceiling	16B-25ad	-	2.06	1.93	45	93	87						
Floor	19A-Obscp	-	0.00	0.00	0	0	0						
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.46		WAR 0.28	254							
	Sensible Load (Btuh)			0.24			37						
	Latent Load (Btuh)												
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0						
	b Scenario number					0							
	c Default Adjustments												
	d Custom Appliances						0	0					
	e Plants							0					
14 Subtotals	Sum lines 6 through 12					947	369						
15 Duct Loads	EHLF & ESGF		0	0		0	0						
	ELG							0					
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0									
17 Winter Humidification Load	Gal/Day			0									
18 Piping Load													
19 Blower Heat													
20 AED Excursion & Latent Moisture Migration Load							0						
21 Total Load	Sum lines 13 through 19					947	369						

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



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Right-Suite® Universal 2024 24.0.03 RSU64913

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Right-J8® Form J1
APARTMENT 3 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APARTMENT 3 BED 2				APT3 WIC 2					
2 Running Feet of Exposed Wall			25.5 ft				12.5 ft					
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		657.0 ft ²		9.0 ft		225.0 ft ²			
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)					150.8 ft ²		7.0 x 5.5 ft		38.5 ft ²			
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		150.8 ft ²		0 °		38.5 ft ²			
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	0.00	0.00	0	0	0	0	0	0	0	0
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	e	4.94	2.02	5	22	9	0	0	0	0	0
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0	0	0	0	0	0
11 Wall	12C-0sw	s	4.94	2.02	162	702	287	50	245	100	0	0
Glaz	2 glazing, clr low-e	s	16.29	14.79	20	326	296	0	0	0	0	0
Door	11N0	s	0.00	0.00	0	0	0	0	0	0	0	0
Wall	12C-0sw	w	4.94	2.02	63	311	127	63	311	127	0	0
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0	0	0	0	0	0
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Door	11N0	w	0.00	0.00	0	0	0	0	0	0	0	0
Ceiling	16B-25ad	-	2.06	1.93	151	311	290	39	79	74	0	0
Floor	19A-0bscp	-	0.00	0.00	0	0	0	0	0	0	0	0
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.36		WAR 1.00	479		WAR 0.49	235			
	Sensible Load (Btuh)		0.19			70			34			
	Latent Load (Btuh)						94					
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0	0	0	0	0	0
	b Scenario number					0			0			
	c Default Adjustments											
	d Custom Appliances					0	0		0	0	0	0
	e Plants						0					
14 Subtotals	Sum lines 6 through 12					2151	1151	94	870	336		
15 Duct Loads	EHLF & ESGF		0	0		0	0		0	0		
	ELG							0				0
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0		0	0	0				
17 Winter Humidification Load	Gal/Day		0			0						
18 Piping Load						0						
19 Blower Heat							0					
20 AED Excursion & Latent Moisture Migration Load							72			0		
21 Total Load	Sum lines 13 through 19					2151	1151	94	870	336		

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



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Right-J8® Form J1
APARTMENT 3 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Name of Room			APT3 BEDROOM 2									
2 Running Feet of Exposed Wall			13.0 ft									
3 Ceiling Ht (Ft) and Gross Wall Area (SqFt)			9.0 ft		432.0 ft ²							
4 Room Dimensions (Ft) and Floor Plan Area (SqFt)			1.0 x 112.3 ft		112.3 ft ²							
5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt)			0 °		112.3 ft ²							
Type of Exposure	Const., Number	Panel Faces	HTM		Area or Length	Btuh			Area or Length	Btuh		
			Htg.	Clg.		Heating	S-Clg	L-Clg		Heating	S-Clg	L-Clg
6 Wall	12C-0sw	n	0.00	0.00	0	0	0					
Glaz	2 glazing, clr low-e	n	0.00	0.00	0	0	0					
Wall	12C-0sw	e	4.94	2.02	5	22	9					
Glaz	2 glazing, clr low-e	e	0.00	0.00	0	0	0					
11 Wall	12C-0sw	s	4.94	2.02	113	457	187					
Glaz	2 glazing, clr low-e	s	16.29	14.79	20	326	296					
Door	11N0	s	0.00	0.00	0	0	0					
Wall	12C-0sw	w	4.94	2.02	0	0	0					
Glaz	2 glazing, clr low-e	w	0.00	0.00	0	0	0					
Door	11N0	w	0.00	0.00	0	0	0					
Door	11N0	w	0.00	0.00	0	0	0					
Ceiling	16B-25ad	-	2.06	1.93	112	232	216					
Floor	19A-Obscp	-	0.00	0.00	0	0	0					
12 Infiltration	Heating Load (Btuh)	Effect ACH	0.36		WAR 0.51	244						
	Sensible Load (Btuh)			0.19			36					
	Latent Load (Btuh)											
13 Internal	a Occupants at 230 and 200 Btuh				0	0	0					
	b Scenario number					0						
	c Default Adjustments											
	d Custom Appliances					0	0					
	e Plants						0					
14 Subtotals	Sum lines 6 through 12					1281	816					
15 Duct Loads	EHLF & ESGF		0	0		0	0					
	ELG							0				
16 Ventilation Loads	Vent Cf _m	0	E Cf _m	0								
17 Winter Humidification Load	Gal/Day			0								
18 Piping Load												
19 Blower Heat												
20 AED Excursion & Latent Moisture Migration Load							72					
21 Total Load	Sum lines 13 through 19					1281	816					

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



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Load Short Form

Entire House

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	16	90	Method		Simplified
Inside db (°F)	70	75	Construction quality		Semi-tight
Design TD (°F)	54	15	Fireplaces		0
Daily range	-	M			
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	45	32			

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 s sensible heat ratio	0

ROOM NAME		Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Apartment 1	d	385	5727	5534	300	300
(Rest of House)	d	607	7357	6799	300	300
APARTMENT 1 BED 2	d	81	1098	377	300	300
APARTMENT 1 BED 1	d	148	2936	1326	300	300
APARTMENT 2 BED 1	d	147	2781	1329	300	300
APARTMENT 2	d	444	6282	5594	300	300
APARTMENT 3 BED 1	d	225	3759	2052	300	300
APARTMENT 3 BED 2	d	151	2151	1151	300	300

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

Entire House	d	2187	32093	23664	2400	2400
Other equip loads			0	0		
Equip. @ 0.95 RSM				22433		
Latent cooling				2671		
TOTALS		2187	32093	25105	2400	2400

BBSYSTEMDESIGN.COM

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



Load Short Form
(Rest of House)
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
 Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	54	15	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Model AOU24RLXFZ
 AHRI ref

Efficiency 10.5 HSPF2
 Heating input 10000 Btuh @ 47°F
 Heating output 31 °F
 Temperature rise 300 cfm
 Actual air flow 0.041 cfm/Btuh
 Air flow factor 0 in H2O
 Static pressure
 Space thermostat
 Capacity/balance point = 14 °F

COOLING EQUIPMENT

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Cond AOU24RLXFZ
 Coil ASUH09LPAS
 AHRI ref

Efficiency 12.5 EER2, 20 SEER2
 Sensible cooling 6750 Btuh
 Latent cooling 2250 Btuh
 Total cooling 9000 Btuh
 Actual air flow 300 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.88

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
APT3 BATH	58	846	346	35	15
APT3 KITCHEN	156	1251	1834	51	81
APT3 HALL	95	195	179	8	8
APT3 LIVING	216	3151	3633	128	160
APT3 LAUNDRY	41	908	346	37	15
APT3 MUD	42	1007	460	41	20

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(Rest of House)	d	607	7357	6799	300	300
Other equip loads			0	0		
Equip. @ 0.95 RSM				6445		
Latent cooling				885		
TOTALS		607	7357	7330	300	300

BBSYSTEMDESIGN.COM

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

Load Short Form

Apartment 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	54	15	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input 10000 Btuh @ 47°F
Heating output 31 °F
Temperature rise 300 cfm
Actual air flow 0.052 cfm/Btuh
Air flow factor 0 in H2O
Static pressure
Space thermostat
Capacity/balance point = 8 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Cond AOU24RLXFZ
Coil ASUH09LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 6300 Btuh
Latent cooling 2700 Btuh
Total cooling 9000 Btuh
Actual air flow 300 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.88

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
APT 1 HALL	76	457	620	24	34
APT1 BATH	36	664	227	35	12
APT1 LIVING	104	2623	2838	137	154
APT1 KITCHEN	169	1983	1849	104	100
Apartment 1	d 385	5727	5534	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			5247		
Latent cooling			746		
TOTALS	385	5727	5992	300	300

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

Load Short Form

APARTMENT 1 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	54	15	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 300 cfm
Air flow factor 0.102 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = -6 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Cond AOU24RLXFZ
Coil ASUH07LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 4900 Btuh
Latent cooling 2100 Btuh
Total cooling 7000 Btuh
Actual air flow 300 cfm
Air flow factor 0.226 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.93

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
APT1 BEDROOM	148	2936	1326	300	300
APARTMENT 1 BED 1	148	2936	1326	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			1257		
Latent cooling			94		
TOTALS	148	2936	1351	300	300

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

Load Short Form

APARTMENT 1 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified Average 1 (Average)
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	54	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 300 cfm
Air flow factor 0.273 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity/balance point = -20 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Cond AOU24RLXFZ
Coil ASUH07LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 4900 Btuh
Latent cooling 2100 Btuh
Total cooling 7000 Btuh
Actual air flow 300 cfm
Air flow factor 0.796 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.93

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
APT1 BEDROOM 2	81	1098	377	300	300
APARTMENT 1 BED 2	81	1098	377	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			357		
Latent cooling			28		
TOTALS	81	1098	385	300	300

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

Load Short Form

APARTMENT 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified Average 1 (Average)
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	54	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 2 CONDENSER
Model AOU18RLXFZ
AHRI ref

Efficiency 10.5 HSPFP2
Heating input
Heating output 10000 Btuh @ 47°F
Temperature rise 31 °F
Actual air flow 300 cfm
Air flow factor 0.048 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity/balance point = 10 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 2 CONDENSER
Cond AOU18RLXFZ
Coil ASUH09LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 6750 Btuh
Latent cooling 2250 Btuh
Total cooling 9000 Btuh
Actual air flow 300 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.91

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
APT2 BATH	58	775	315	37	17
APT2 HALL	61	369	593	18	32
APT2 LIVING	150	3174	2789	152	150
APT2 KITCHEN	105	1106	1511	53	81
APT2 DINING	70	858	385	41	21
APARTMENT 2	d 444	6282	5594	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			5303		
Latent cooling			559		
TOTALS	444	6282	5862	300	300

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

Load Short Form

APARTMENT 2 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified Average 1 (Average)
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	54	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 2 CONDENSER
Model AOU18RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 300 cfm
Air flow factor 0.108 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity/balance point = -7 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 2 CONDENSER
Cond AOU18RLXFZ
Coil ASUH07LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 4900 Btuh
Latent cooling 2100 Btuh
Total cooling 7000 Btuh
Actual air flow 300 cfm
Air flow factor 0.226 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.94

ROOM NAME	Area (ft ²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
APT2 BEDROOM	147	2781	1329	300	300
APARTMENT 2 BED 1	147	2781	1329	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			1260		
Latent cooling			87		
TOTALS	147	2781	1346	300	300

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

Load Short Form

APARTMENT 3 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified Average 1 (Average)
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	54	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 3 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 300 cfm
Air flow factor 0.080 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity/balance point = -1 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 3 CONDENSER
Cond AOU24RLXFZ
Coil ASUH07LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 4900 Btuh
Latent cooling 2100 Btuh
Total cooling 7000 Btuh
Actual air flow 300 cfm
Air flow factor 0.146 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)
APT3 BEDROOM	180	2813	1682	224	246
APT3 WIC	45	947	369	76	54
APARTMENT 3 BED 1	d 225	3759	2052	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			1945		
Latent cooling			179		
TOTALS	225	3759	2124	300	300

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

Load Short Form

APARTMENT 3 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	16	90	Method	Simplified Average 1 (Average)
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	54	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	45	32		

HEATING EQUIPMENT

Make Fujitsu
Trade APARTMENT 3 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 300 cfm
Air flow factor 0.139 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity/balance point = -12 °F

COOLING EQUIPMENT

Make Fujitsu
Trade APARTMENT 3 CONDENSER
Cond AOU24RLXFZ
Coil ASUH07LPAS
AHRI ref

Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 4900 Btuh
Latent cooling 2100 Btuh
Total cooling 7000 Btuh
Actual air flow 300 cfm
Air flow factor 0.261 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)
APT3 WIC 2	39	870	336	121	87
APT3 BEDROOM 2	112	1281	816	179	213
APARTMENT 3 BED 2	d 151	2151	1151	300	300
Other equip loads		0	0		
Equip. @ 0.95 RSM			1092		
Latent cooling			94		
TOTALS	151	2151	1186	300	300

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

Load Multizone Summary Report

Job:
Date: Dec 16, 2024
By: Bobby Blough

B&B System Design

Vineland, NJ 08361

Infiltration Summary

ZONE NAME	Heating				Cooling			
	Volume ft³	ACH	AVF cfm	HTM Btuh/ft²	Volume ft³	ACH	AVF cfm	HTM Btuh/ft²
(Rest of House)	5465	0.27	24	2.1	5465	0.14	13	0.3
Apartment 1	3465	0.22	13	2.1	3465	0.12	7	0.3
APARTMENT 1 BED 2	729	0.20	2	2.1	729	0.10	1	0.3
APARTMENT 1 BED 1	1328	0.37	8	2.1	1328	0.20	4	0.3
APARTMENT 2 BED 1	1319	0.34	7	2.1	1319	0.18	4	0.3
APARTMENT 2	3996	0.20	14	2.1	3996	0.11	7	0.3
APARTMENT 3 BED 1	2025	0.46	15	2.1	2025	0.24	8	0.3
APARTMENT 3 BED 2	1357	0.36	8	2.1	1357	0.19	4	0.3
Entire House	19683	0.28	92	2.1	19683	0.15	49	0.3

Load and AVF Summary

ROOM NAME	Area ft²	Htg load Btuh	Clg load Btuh	Htg AVF cfm	Clg AVF cfm
APT3 BATH	58	846	346	35	15
APT3 KITCHEN	156	1251	1834	51	81
APT3 HALL	95	195	179	8	8
APT3 LIVING	216	3151	3633	128	160
APT3 LAUNDRY	41	908	346	37	15
APT3 MUD	42	1007	460	41	20
(Rest of House)	607	7357	6799	300	300
APT 1 HALL	76	457	620	24	34
APT1 BATH	36	664	227	35	12
APT1 LIVING	104	2623	2838	137	154
APT1 KITCHEN	169	1983	1849	104	100
Apartment 1	385	5727	5534	300	300
APT1 BEDROOM 2	81	1098	377	300	300
APARTMENT 1 BED 2	81	1098	377	300	300
APT1 BEDROOM	148	2936	1326	300	300
APARTMENT 1 BED 1	148	2936	1326	300	300
APT2 BEDROOM	147	2781	1329	300	300
APARTMENT 2 BED 1	147	2781	1329	300	300
APT2 BATH	58	775	315	37	17
APT2 HALL	61	369	593	18	32
APT2 LIVING	150	3174	2789	152	150
APT2 KITCHEN	105	1106	1511	53	81
APT2 DINING	70	858	385	41	21
APARTMENT 2	444	6282	5594	300	300
APT3 BEDROOM	180	2813	1682	224	246
APT3 WIC	45	947	369	76	54
APARTMENT 3 BED 1	225	3759	2052	300	300
APT3 WIC 2	39	870	336	121	87
APT3 BEDROOM 2	112	1281	816	179	213



APARTMENT 3 BED 2	151	2151	1151	300	300
Entire House	2187	32093	23664	2400	2400

BBSYSTEMDESIGN.COM



Building Analysis

Entire House

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

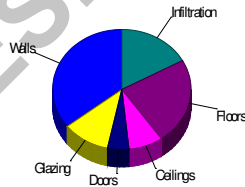
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Semi-tight
0

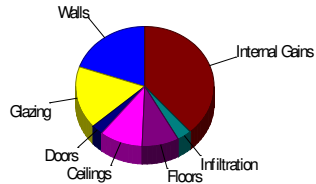
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	11395	35.5
Glazing	16.3	3584	11.2
Doors	19.0	1596	5.0
Ceilings	2.1	2571	8.0
Floors	6.0	7498	23.4
Infiltration	2.1	5449	17.0
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		32093	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	4659	19.7
Glazing	18.1	3983	16.8
Doors	7.6	642	2.7
Ceilings	1.9	2401	10.1
Floors	1.6	2044	8.6
Infiltration	0.3	796	3.4
Ducts		0	0
Ventilation		0	0
Internal gains		9140	38.6
Blower		0	0
Adjustments		0	0
Total		23664	100.0



Latent Cooling Load = 2671 Btuh
Overall U-value = 0.141 Btuh/ft²·°F, Window / Floor Area = 10.1 %

Data entries checked.

Building Analysis (Rest of House) B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

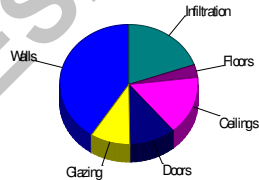
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
1 (Average)

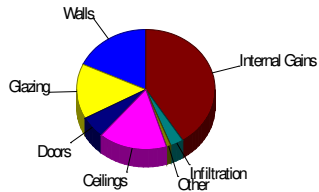
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	3009	40.9
Glazing	16.3	684	9.3
Doors	19.0	798	10.8
Ceilings	2.1	1166	15.9
Floors	6.0	253	3.4
Infiltration	2.1	1447	19.7
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		7357	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	1230	18.1
Glazing	24.0	1009	14.8
Doors	9.5	400	5.9
Ceilings	1.9	1089	16.0
Floors	1.6	69	1.0
Infiltration	0.3	211	3.1
Ducts		0	0
Ventilation		0	0
Internal gains		2790	41.0
Blower		0	0
Adjustments		0	0
Total		6799	100.0



Latent Cooling Load = 885 Btuh
Overall U-value = 0.090 Btuh/ft²·°F, Window / Floor Area = 6.9%

Data entries checked.



wrightsoft

Right-Suite® Universal 2024 24.0.03 RSU64913

2024-Dec-29 10:17:00

...FINISHED\jimmy f lips\c\1800 Pennington Road.rup Calc = MJ8 Front Door faces: N

Page 2

Building Analysis

Apartment 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

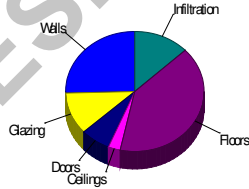
For: Ewing, NJ 08618

Design Conditions

Location:				Indoor:	Heating	Cooling
Trenton-Mercer, NJ, US				Indoor temperature (°F)	70	75
Elevation: 190 ft				Design TD (°F)	54	15
Latitude: 40°N				Relative humidity (%)	50	50
				Moisture difference (gr/lb)	45.3	32.2
Outdoor:	Heating	Cooling		Infiltration:		
Drybulb (°F)	16	90		Method	Simplified	
Daily range (°F)	-	18 (M)		Construction quality	Average	
Wet bulb (°F)	-	73		Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5				

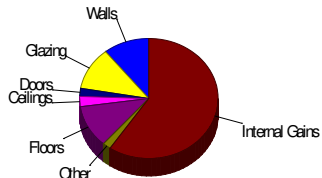
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	1455	25.4
Glazing	16.3	652	11.4
Doors	19.0	399	7.0
Ceilings	2.1	162	2.8
Floors	6.0	2317	40.5
Infiltration	2.1	742	13.0
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		5727	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	595	10.8
Glazing	15.9	637	11.5
Doors	5.8	121	2.2
Ceilings	1.9	152	2.7
Floors	1.6	631	11.4
Infiltration	0.3	108	2.0
Ducts		0	0
Ventilation		0	0
Internal gains		3290	59.4
Blower		0	0
Adjustments		0	0
Total		5534	100.0



Latent Cooling Load = 746 Btuh
Overall U-value = 0.199 Btuh/ft²·°F, Window / Floor Area = 10.4 %

Data entries checked.

Building Analysis

APARTMENT 1 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

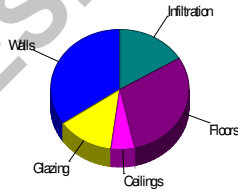
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
1 (Average)

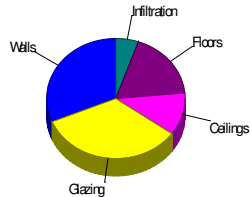
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	1015	34.6
Glazing	16.3	391	13.3
Doors	0	0	0
Ceilings	2.1	162	5.5
Floors	6.0	888	30.2
Infiltration	2.1	479	16.3
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		2936	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	415	31.3
Glazing	18.6	447	33.7
Doors	0	0	0
Ceilings	1.9	152	11.4
Floors	1.6	242	18.2
Infiltration	0.3	70	5.3
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		1326	100.0



Latent Cooling Load = 94 Btuh
Overall U-value = 0.159 Btuh/ft²·°F, Window / Floor Area = 16.3 %

Data entries checked.



wrightsoft

Right-Suite® Universal 2024.24.0.03 RSU64913

2024-Dec-29 10:17:00

...FINISHED\jimmy f lips\c\1800 Pennington Road.rup Calc = MJ8 Front Door faces: N

Page 4

Building Analysis

APARTMENT 1 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

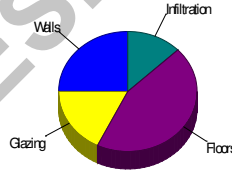
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
1 (Average)

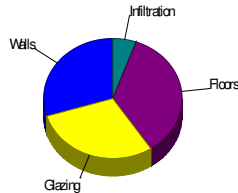
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	274	25.0
Glazing	16.3	195	17.8
Doors	0	0	0
Ceilings	0	0	0
Floors	6.0	487	44.4
Infiltration	2.1	141	12.8
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		1098	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	112	29.8
Glazing	9.3	111	29.5
Doors	0	0	0
Ceilings	0	0	0
Floors	1.6	133	35.3
Infiltration	0.3	21	5.5
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		377	100.0



Latent Cooling Load = 28 Btuh
Overall U-value = 0.219 Btuh/ft²·°F, Window / Floor Area = 14.8 %

Data entries checked.

Building Analysis

APARTMENT 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

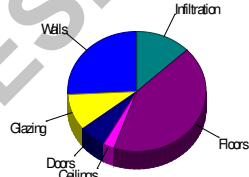
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
1 (Average)

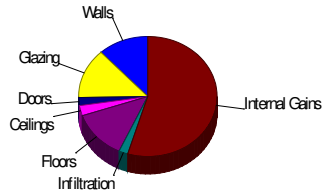
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	1621	25.8
Glazing	16.3	619	9.9
Doors	19.0	399	6.4
Ceilings	2.1	164	2.6
Floors	6.0	2672	42.5
Infiltration	2.1	808	12.9
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		6282	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	663	11.8
Glazing	19.8	751	13.4
Doors	5.8	121	2.2
Ceilings	1.9	153	2.7
Floors	1.6	728	13.0
Infiltration	0.3	118	2.1
Ducts		0	0
Ventilation		0	0
Internal gains		3060	54.7
Blower		0	0
Adjustments		0	0
Total		5594	100.0



Latent Cooling Load = 559 Btuh
Overall U-value = 0.201 Btuh/ft²·°F, Window / Floor Area = 8.6 %

Data entries checked.

Building Analysis

APARTMENT 2 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

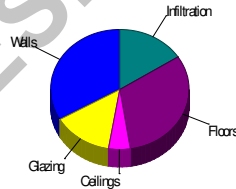
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
1 (Average)

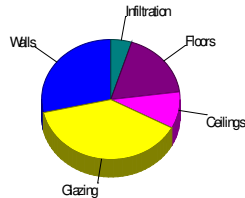
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	926	33.3
Glazing	16.3	391	14.1
Doors	0	0	0
Ceilings	2.1	141	5.1
Floors	6.0	882	31.7
Infiltration	2.1	442	15.9
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		2781	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	379	28.5
Glazing	21.4	514	38.7
Doors	0	0	0
Ceilings	1.9	131	9.9
Floors	1.6	240	18.1
Infiltration	0.3	64	4.9
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		1329	100.0



Latent Cooling Load = 87 Btuh
Overall U-value = 0.164 Btuh/ft²·°F, Window / Floor Area = 16.4 %

Data entries checked.

Building Analysis

APARTMENT 3 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

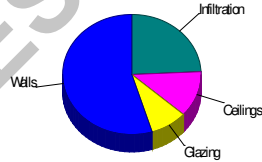
Infiltration:

Method
Construction quality
Fireplaces

Simplified
Average
1 (Average)

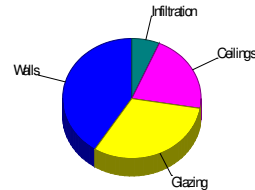
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	2058	54.7
Glazing	16.3	326	8.7
Doors	0	0	0
Ceilings	2.1	464	12.3
Floors	0	0	0
Infiltration	2.1	911	24.2
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		3759	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	841	41.0
Glazing	32.2	644	31.4
Doors	0	0	0
Ceilings	1.9	433	21.1
Floors	0	0	0
Infiltration	0.3	133	6.5
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		2052	100.0



Latent Cooling Load = 179 Btuh
Overall U-value = 0.079 Btuh/ft²·°F, Window / Floor Area = 8.9 %

Data entries checked.

Building Analysis

APARTMENT 3 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineand, NJ 08361

Project Information

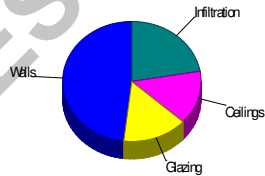
For: Ewing, NJ 08618

Design Conditions

Location:				Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US				Indoor temperature (°F)		70	75
Elevation: 190 ft				Design TD (°F)		54	15
Latitude: 40°N				Relative humidity (%)		50	50
				Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling			Infiltration:		
Drybulb (°F)	16	90			Method	Simplified	
Daily range (°F)	-	18 (M)			Construction quality	Average	
Wet bulb (°F)	-	73			Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5					

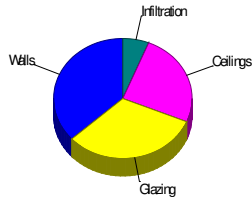
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	1035	48.1
Glazing	16.3	326	15.1
Doors	0	0	0
Ceilings	2.1	311	14.5
Floors	0	0	0
Infiltration	2.1	479	22.3
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		2151	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.0	423	36.8
Glazing	18.4	368	31.9
Doors	0	0	0
Ceilings	1.9	290	25.2
Floors	0	0	0
Infiltration	0.3	70	6.1
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		1151	100.0



Latent Cooling Load = 94 Btuh
Overall U-value = 0.081 Btuh/ft²·°F, Window / Floor Area = 13.3 %

Data entries checked.

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

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F	RH = 50 %
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

J1 Form - Worksheet A
(Rest of House)
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

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

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F	RH = 50 %
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

J1 Form - Worksheet A
APARTMENT 1 BED 1
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

J1 Form - Worksheet A
APARTMENT 1 BED 2
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

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

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A		
Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F	RH = 50 %
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

J1 Form - Worksheet A
APARTMENT 2 BED 1
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

J1 Form - Worksheet A
APARTMENT 3 BED 1
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions		
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %	
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F

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

J1 Form - Worksheet A
APARTMENT 3 BED 2
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Supporting Detail	
Project Name: 1800 Pennington Road	Date: Dec 16, 2024
Address: Ewing, NJ 08618	
Phone:	Job ID:

Worksheet A Location and Design Conditions			
Weather Location: Trenton-Mercer, NJ, US	Elevation = 190	Latitude = 40	
Indoor Conditions, Heating: DB = 70 °F RH = 50 %	Indoor Conditions, Cooling: DB = 75 °F RH = 50 %		
Table 1 Conditions 99% DB = 16 °F 1% DB = 90 °F	Grains Difference = 32 gr/lb	Daily Range = M	
Design Temperature Differences	HTD = 54 °F	CTD = 15 °F	

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

Component Constructions
Entire House
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Semi-tight	
Wet bulb (°F)	-	73	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Ins ul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Clg HTM Btuh Btuh/ft²	Gain 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	732	0.091	13.0	4.94	3617 2.02	1479
	e	460	0.091	13.0	4.94	2273 2.02	929
	s	713	0.091	13.0	4.94	3523 2.02	1440
	w	401	0.091	13.0	4.94	1981 2.02	810
	all	2306	0.091	13.0	4.94	11395 2.02	4659
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 mat, clr inner, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht	n	69	0.300	0	16.3	1124 9.26	639
	e	44	0.300	0	16.3	717 28.0	1232
	s	67	0.300	0	16.3	1091 14.8	991
	w	40	0.300	0	16.3	652 28.0	1120
	all	220	0.300	0	16.3	3584 18.1	3983
Doors							
11N0: Door, mtl eps core type	s	21	0.350	8.7	19.0	399 9.52	200
	w	21	0.350	8.7	19.0	399 9.52	200
	w	42	0.350	8.7	19.0	798 5.78	243
	all	84	0.350	8.7	19.0	1596 7.65	642
Ceilings							
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 cell ins, 1/2" gypsum board int fnsh		1246	0.038	25.0	2.06	2571 1.93	2401
Floors							
19A-obscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		1246	0.295	0	6.02	7498 1.64	2044

Component Constructions (Rest of House) B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location: Trenton-Mercer, NJ, US Elevation: 190 ft Latitude: 40°N		Indoor: Indoor temperature (°F) 70 Design TD (°F) 54 Relative humidity (%) 50 Moisture difference (gr/lb) 45.3		Heating 70	Cooling 75
Outdoor: Drybulb (°F) 16 Daily range (°F) - Wet bulb (°F) - Wind speed (mph) 15.0	Heating 16	Cooling 90 (M)	Infiltration: Method 18 Construction quality 73 Fireplaces 7.5	Simplified Average	32.2

Construction descriptions

	Or	Area ft²	U-value Btu/h·ft²·°F	Ins ul R ft²·°F/Btu	Htg HTM Btu/h·ft²	Loss Btu/h	Cig 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 fsh, 2"x4" wood frm, 16" o.c. stud	n	237	0.091	13.0	4.94	1171	2.02	479
	e	54	0.091	13.0	4.94	267	2.02	109
	s	170	0.091	13.0	4.94	840	2.02	343
	w	148	0.091	13.0	4.94	731	2.02	299
	all	609	0.091	13.0	4.94	3009	2.02	1230

Partitions (none)

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	15	0.300	0	16.3	244	9.26	139
	s	7	0.300	0	16.3	114	14.8	104
	w	20	0.300	0	16.3	326	28.0	560
	all	42	0.300	0	16.3	684	19.1	803

Doors

11N0: Door, mtl eps core type	s	21	0.350	8.7	19.0	399	9.52	200
	w	21	0.350	8.7	19.0	399	9.52	200
	all	42	0.350	8.7	19.0	798	9.52	400

Ceilings

16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fsh		565	0.038	25.0	2.06	1166	1.93	1089
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Floors

19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fsh, tight bsmt ovr		42	0.295	0	6.02	253	1.64	69
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Component Constructions

Apartment 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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 board int fnsh, 2"x4" wood frm, 16" o.c. stud	n	209	0.091	13.0	4.94	1030	421
	w	86	0.091	13.0	4.94	425	174
	all	295	0.091	13.0	4.94	1455	595
Partitions (none)							
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	30	0.300	0	16.3	489	278
	w	10	0.300	0	16.3	163	280
	all	40	0.300	0	16.3	652	558
Doors							
11N0: Door, mtl eps core type	w	21	0.350	8.7	19.0	399	121
Ceilings							
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		79	0.038	25.0	2.06	162	152
Floors							
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		385	0.295	0	6.02	2317	631



wrightsoft

Right-Suite® Universal 2024 24.0.03 RSU64913

2024-Dec-29 10:17:01

...FINISHED\jimmy f lips\c\1800 Pennington Road.rup Calc = MJ8 Front Door faces: N

Page 3

Component Constructions

APARTMENT 1 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	56	0.091	13.0	4.94	274	2.02	112
Partitions								
(none)								
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" n 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		12	0.300	0	16.3	195	9.26	111
Doors								
(none)								
Ceilings								
(none)								
Floors								
19A-0bsp: Fir floor, frm fir, 6" thkns, carpet fir fnsh, tight bsmt ovr		81	0.295	0	6.02	487	1.64	133

Component Constructions

APARTMENT 1 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	n	83	0.091	13.0	4.94	408	2.02		167
board int fnsh, 2"x4" wood frm, 16" o.c. stud	e	123	0.091	13.0	4.94	608	2.02		248
	all	206	0.091	13.0	4.94	1015	2.02		415
Partitions (none)									
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	n	12	0.300	0	16.3	195	9.26		111
mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head	e	12	0.300	0	16.3	195	28.0		336
ht	all	24	0.300	0	16.3	391	18.6		447
Doors (none)									
Ceilings									
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		79	0.038	25.0	2.06	162	1.93		152
Floors									
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		148	0.295	0	6.02	888	1.64		242

Component Constructions

APARTMENT 2 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²	
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	e	105	0.091	13.0	4.94	519	2.02	212
	s	83	0.091	13.0	4.94	408	2.02	167
	all	188	0.091	13.0	4.94	926	2.02	379
Partitions (none)								
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	e	12	0.300	0	16.3	195	28.0	336
	s	12	0.300	0	16.3	195	14.8	178
	all	24	0.300	0	16.3	391	21.4	514
Doors (none)								
Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		68	0.038	25.0	2.06	141	1.93	131
Floors								
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		147	0.295	0	6.02	882	1.64	240

Component Constructions

APARTMENT 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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	
		ft ²	Btuh/ft ² ·F	ft ² ·F/Btuh	Btuh/ft ²	Btuh	Btuh/ft ²	
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	s	224	0.091	13.0	4.94	1107	2.02	453
	w	104	0.091	13.0	4.94	514	2.02	210
	all	328	0.091	13.0	4.94	1621	2.02	663
Partitions (none)								
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	s	28	0.300	0	16.3	456	14.8	414
	w	10	0.300	0	16.3	163	28.0	280
	all	38	0.300	0	16.3	619	18.3	694
Doors								
11N0: Door, mtl eps core type	w	21	0.350	8.7	19.0	399	5.78	121
Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		79	0.038	25.0	2.06	164	1.93	153
Floors								
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		444	0.295	0	6.02	2672	1.64	728

Component Constructions

APARTMENT 3 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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 frsh, 2"x4" wood frm, 16" o.c. stud	n	149	0.091	13.0	4.94	734	2.02	300
	e	174	0.091	13.0	4.94	857	2.02	351
	s	95	0.091	13.0	4.94	467	2.02	191
	all	417	0.091	13.0	4.94	2058	2.02	841

Partitions

(none)

Windows

2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" e gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht	e	20	0.300	0	16.3	326	28.0	560
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Doors

(none)

Ceilings

16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int frsh		225	0.038	25.0	2.06	464	1.93	433
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Floors

(none)

Component Constructions

APARTMENT 3 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²
Walls							
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum board int frsh, 2"x4" wood frm, 16" o.c. stud							
	e	5	0.091	13.0	4.94	22	2.02
	s	142	0.091	13.0	4.94	702	2.02
	w	63	0.091	13.0	4.94	311	2.02
	all	210	0.091	13.0	4.94	1035	2.02
Partitions							
(none)							
Windows							
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" s gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht							
		20	0.300	0	16.3	326	14.8
Doors							
(none)							
Ceilings							
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int frsh							
		151	0.038	25.0	2.06	311	1.93
Floors							
(none)							

Component Constructions

APT1 BEDROOM

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineyard, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss	Cig 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	n	83	0.091	13.0	4.94	408	2.02	167
board int fnsh, 2"x4" wood frm, 16" o.c. stud	e	123	0.091	13.0	4.94	608	2.02	248
	all	206	0.091	13.0	4.94	1015	2.02	415
Partitions (none)								
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	n	12	0.300	0	16.3	195	9.26	111
mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head	e	12	0.300	0	16.3	195	28.0	336
ht	all	24	0.300	0	16.3	391	18.6	447
Doors (none)								
Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		79	0.038	25.0	2.06	162	1.93	152
Floors								
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		148	0.295	0	6.02	888	1.64	242

Component Constructions

APT2 BEDROOM

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²	
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	e	105	0.091	13.0	4.94	519	2.02	212
	s	83	0.091	13.0	4.94	408	2.02	167
	all	188	0.091	13.0	4.94	926	2.02	379

Partitions

(none)

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	e	12	0.300	0	16.3	195	28.0	336
	s	12	0.300	0	16.3	195	14.8	178
	all	24	0.300	0	16.3	391	21.4	514

Doors

(none)

Ceilings

16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh	68	0.038	25.0	2.06	141	1.93	131
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Floors

19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr	147	0.295	0	6.02	882	1.64	240
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Component Constructions
APT2 BATH
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineyard, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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 board int fnsh, 2"x4" wood frm, 16" o.c. stud	s	44	0.091	13.0	4.94	215 2.02	88
Partitions (none)							
Windows							
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" s 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		6	0.300	0	16.3	98 14.8	89
Doors (none)							
Ceilings							
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		6	0.038	25.0	2.06	12 1.93	11
Floors							
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		58	0.295	0	6.02	348 1.64	95

Component Constructions

APT1 BEDROOM 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²
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	56	0.091	13.0	4.94	274 2.02	112
Partitions							
(none)							
Windows							
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" n 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		12	0.300	0	16.3	195 9.26	111
Doors							
(none)							
Ceilings							
(none)							
Floors							
19A-0bscp: Fir floor, frm fir, 6" thkns, carpet fir fnsh, tight bsmt ovr		81	0.295	0	6.02	487 1.64	133



wrightsoft

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Component Constructions
APT3 MUD
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:				Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US				Indoor temperature (°F)		70	75
Elevation: 190 ft				Design TD (°F)		54	15
Latitude: 40°N				Relative humidity (%)		50	50
				Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling		Infiltration:			
Drybulb (°F)	16	90		Method		Simplified	
Daily range (°F)	-	18 (M)		Construction quality		Average	
Wet bulb (°F)	-	73		Fireplaces		1 (Average)	
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	s	26	0.091	13.0	4.94	128	2.02	53
Partitions								
(none)								
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	s	7	0.300	0	16.3	114	14.8	104
Doors								
11N0: Door, mtl eps core type	s	21	0.350	8.7	19.0	399	9.52	200
Ceilings								
(none)								
Floors								
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		42	0.295	0	6.02	253	1.64	69



Component Constructions
APT1 BATH
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²
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	48	0.091	13.0	4.94	237 2.02	97
Partitions							
(none)							
Windows							
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" n 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		6	0.300	0	16.3	98 9.26	56
Doors							
(none)							
Ceilings							
(none)							
Floors							
19A-0bsp: Fir floor, frm fir, 6" thkns, carpet fir fnsh, tight bsmt ovr		36	0.295	0	6.02	217 1.64	59

Component Constructions
APT 1 HALL
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	HTM	Gain
		ft²	Btu/h·ft²·°F	ft²·°F/Btu/h	Btu/h/ft²	Btu/h	Btu/h/ft²	Btu/h
Walls (none)								
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings (none)								
Floors 19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr insh, tight bsmt ovr		76	0.295	0	6.02	457	1.64	125

Component Constructions

APT1 KITCHEN

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	101	0.091	13.0	4.94	497	2.02	203
Partitions (none)								
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" n 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		12	0.300	0	16.3	195	9.26	111
Doors (none)								
Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		19	0.038	25.0	2.06	39	1.93	36
Floors								
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ov		169	0.295	0	6.02	1017	1.64	277



Component Constructions

APT1 LIVING

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	Btuh
Walls									
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum	n	60	0.091	13.0	4.94	296	2.02	121	
board int fnsh, 2"x4" wood frm, 16" o.c. stud	w	86	0.091	13.0	4.94	425	2.02	174	
	all	146	0.091	13.0	4.94	721	2.02	295	
Partitions (none)									
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	n	12	0.300	0	16.3	195	9.26	111	
mat, clr innr, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head	w	10	0.300	0	16.3	163	28.0	280	
ht	all	22	0.300	0	16.3	358	17.8	391	
Doors									
11N0: Door, mtl eps core type	w	21	0.350	8.7	19.0	399	5.78	121	
Ceilings									
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		60	0.038	25.0	2.06	124	1.93	116	
Floors									
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		104	0.295	0	6.02	626	1.64	171	

Component Constructions

APT2 KITCHEN

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²
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	s	68	0.091	13.0	4.94	334 2.02	136
Partitions							
(none)							
Windows							
(none)							
Doors							
(none)							
Ceilings							
(none)							
Floors							
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		105	0.295	0	6.02	632 1.64	172

Component Constructions
APT2 DINING
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineyard, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²
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	s	35	0.091	13.0	4.94	173 2.02	71
Partitions (none)							
Windows							
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" s 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		10	0.300	0	16.3	163 14.8	148
Doors (none)							
Ceilings							
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		4	0.038	25.0	2.06	7 1.93	7
Floors							
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		70	0.295	0	6.02	421 1.64	115

Component Constructions

APT2 LIVING

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	Btuh
Walls									
12C-0sw: Frm wall, vnl ext, 3/8" wood shth, r-13 cav ins, 1/2" gypsum	s	78	0.091	13.0	4.94	385	2.02	158	
board int fnsh, 2"x4" wood frm, 16" o.c. stud	w	104	0.091	13.0	4.94	514	2.02	210	
	all	182	0.091	13.0	4.94	899	2.02	368	
Partitions (none)									
Windows									
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" s		12	0.300	0	16.3	195	14.8	178	
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	w	10	0.300	0	16.3	163	28.0	280	
ht	all	22	0.300	0	16.3	358	20.8	458	
Doors									
11N0: Door, mtl eps core type	w	21	0.350	8.7	19.0	399	5.78	121	
Ceilings									
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		70	0.038	25.0	2.06	144	1.93	135	
Floors									
19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, tight bsmt ovr		150	0.295	0	6.02	903	1.64	246	

Component Constructions

APT3 BEDROOM

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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 frsh, 2"x4" wood frm, 16" o.c. stud	n	95	0.091	13.0	4.94	467	2.02	191
	e	106	0.091	13.0	4.94	524	2.02	214
	s	95	0.091	13.0	4.94	467	2.02	191
	all	295	0.091	13.0	4.94	1458	2.02	596
Partitions								
(none)								
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" e 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	e	20	0.300	0	16.3	326	28.0	560
Doors								
(none)								
Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int frsh		180	0.038	25.0	2.06	371	1.93	347
Floors								
(none)								



Component Constructions
APT3 BATH
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	e	54	0.091	13.0	4.94	267	2.02	109
	s	50	0.091	13.0	4.94	245	2.02	100
	all	104	0.091	13.0	4.94	511	2.02	209

Partitions
(none)

Windows
(none)

Doors
(none)

Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 cell ins, 1/2" gypsum board int fnsh		58	0.038	25.0	2.06	119	1.93	111

Floors
(none)

Component Constructions

APT3 KITCHEN

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	93	0.091	13.0	4.94	460	2.02	188
Partitions								
(none)								
Windows								
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" n 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		15	0.300	0	16.3	244	9.26	139
Doors								
(none)								
Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		156	0.038	25.0	2.06	322	1.93	301
Floors								
(none)								

Component Constructions

APT3 BEDROOM 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineyard, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	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	e	5	0.091	13.0	4.94	22	2.02		9
	s	93	0.091	13.0	4.94	457	2.02		187
	all	97	0.091	13.0	4.94	479	2.02		196
Partitions (none)									
Windows									
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" s 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		20	0.300	0	16.3	326	14.8		296
Doors (none)									
Ceilings									
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		112	0.038	25.0	2.06	232	1.93		216
Floors (none)									

Component Constructions
APT3 WIC 2
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	s	50	0.091	13.0	4.94	245	2.02	100
	w	63	0.091	13.0	4.94	311	2.02	127
	all	113	0.091	13.0	4.94	556	2.02	227

Partitions
(none)

Windows
(none)

Doors
(none)

Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 cell ins, 1/2" gypsum board int fnsh		39	0.038	25.0	2.06	79	1.93	74

Floors
(none)

Component Constructions
APT3 HALL
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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	Btu/h·ft²·°F	ft²·°F/Btu/h	Btu/h/ft²	Btu/h	Btu/h/ft²
Walls (none)							
Partitions (none)							
Windows (none)							
Doors (none)							
Ceilings 16B-253d: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int frsh		95	0.038	25.0	2.06	195	1.93
Floors (none)							182

Component Constructions

APT3 LIVING

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²
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	95	0.091	13.0	4.94	467	2.02
	s	95	0.091	13.0	4.94	467	2.02
	w	81	0.091	13.0	4.94	398	2.02
	all	270	0.091	13.0	4.94	1332	2.02
Partitions							
(none)							
Windows							
2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" w gap, 1/8" thk; 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr inner, 1/4" gap, 1/8" thk; NFRC rated (SHGC=0.25); 6.67 ft head ht		20	0.300	0	16.3	326	28.0
Doors							
11N0: Door, mtl eps core type	w	21	0.350	8.7	19.0	399	9.52
Ceilings							
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		216	0.038	25.0	2.06	446	1.93
Floors							
(none)							



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Component Constructions

APT3 LAUNDRY

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
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	50	0.091	13.0	4.94	245	2.02	100
	w	68	0.091	13.0	4.94	334	2.02	136
	all	117	0.091	13.0	4.94	578	2.02	236

Partitions
(none)

Windows
(none)

Doors
(none)

Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		41	0.038	25.0	2.06	85	1.93	79

Floors
(none)

Component Constructions
APT3 WIC
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	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/ft²	
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	54	0.091	13.0	4.94	267	2.02	109
	e	68	0.091	13.0	4.94	334	2.02	136
	all	122	0.091	13.0	4.94	600	2.02	245

Partitions
(none)

Windows
(none)

Doors
(none)

Ceilings								
16B-25ad: Attic ceiling, asphalt shingles roof mat, r-25 ceil ins, 1/2" gypsum board int fnsh		45	0.038	25.0	2.06	93	1.93	87

Floors
(none)

Component Constructions
APT2 HALL
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:		Indoor:		Heating	Cooling
Trenton-Mercer, NJ, US		Indoor temperature (°F)		70	75
Elevation: 190 ft		Design TD (°F)		54	15
Latitude: 40°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		45.3	32.2
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	16	90	Method	Simplified	
Daily range (°F)	-	18 (M)	Construction quality	Average	
Wet bulb (°F)	-	73	Fireplaces	1 (Average)	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	HTM	Gain
		ft²	Btu/h·ft²·°F	ft²·°F/Btu/h	Btu/h/ft²	Btu/h	Btu/h/ft²	Btu/h
Walls (none)								
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings (none)								
Floors 19A-0bscp: Flr floor, frm flr, 6" thkns, carpet flr insh, tight bsmt ovr		61	0.295	0	6.02	369	1.64	100

Project Summary

Entire House

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db	16 °F
Inside db	70 °F
Design TD	54 °F

Ventilation Method

Heating Summary

Structure	32093 Btu/h
Ducts	0 Btu/h
Central vent (0 cfm)	0 Btu/h
Humidification	0 Btu/h
Piping	0 Btu/h
Equipment load	32093 Btu/h

Infiltration

Method	Simplified
Construction quality	Semi-tight
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2187	2187
Volume (ft ³)	19683	19683
Air changes/hour	0.28	0.15
Equiv. AVF (cfm)	92	49

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	90 °F
Inside db	75 °F
Design TD	15 °F
Daily range	M
Relative humidity	50 %
Moisture difference	32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	23664 Btu/h
Ducts	0 Btu/h
Central vent (0 cfm)	0 Btu/h
Blower	0 Btu/h
Use manufacturer's data	n
Rate/swing multiplier	0.95
Equipment sensible load	22433 Btu/h

Latent Cooling Equipment Load Sizing

Structure	2671 Btu/h
Ducts	0 Btu/h
Central vent (0 cfm)	0 Btu/h
Equipment latent load	2671 Btu/h

Equipment Total Load (Sen+Lat)	25105 Btu/h
Req. total capacity at 0.70 SHR	2.7 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.



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Project Summary
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
 Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
 Inside db 70 °F
 Design TD 54 °F

Ventilation Method MJ8

Heating Summary

Structure 7357 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 7357 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	607	607
Volume (ft ³)	5465	5465
Air changes/hour	0.27	0.14
Equiv. AVF (cfm)	24	13

Heating Equipment Summary

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Model AOU24RLXFZ
 AHRI ref

Efficiency 10.5 HSPF2
 Heating input
 Heating output 10000 Btuh @ 47°F
 Temperature rise 31 °F
 Actual air flow 300 cfm
 Air flow factor 0.041 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = 14 °F

Summer Design Conditions

Outside db 90 °F
 Inside db 75 °F
 Design TD 15 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 6799 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.95
 Equipment sensible load 6445 Btuh

Latent Cooling Equipment Load Sizing

Structure 885 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 885 Btuh
Equipment Total Load (Sen+Lat) 7330 Btuh
 Req. total capacity at 0.75 SHR 0.7 ton

Cooling Equipment Summary

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Cond AOU24RLXFZ
 Coil ASUH09LPAS
 AHRI ref
 Efficiency 12.5 EER2, 20 SEER2

Sensible cooling 6750 Btuh
 Latent cooling 2250 Btuh
 Total cooling 9000 Btuh
 Actual air flow 300 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 0 in H2O
 Load s sensible heat ratio 0.88

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



Project Summary

Apartment 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
Inside db 70 °F
Design TD 54 °F

Ventilation Method MJ8

Heating Summary

Structure 5727 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 5727 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	385	385
Volume (ft ³)	3465	3465
Air changes/hour	0.22	0.12
Equiv. AVF (cfm)	13	7

Heating Equipment Summary

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 10000 Btuh @ 47°F
Temperature rise 31 °F
Actual air flow 300 cfm
Air flow factor 0.052 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 8 °F

Summer Design Conditions

Outside db 90 °F
Inside db 75 °F
Design TD 15 °F
Daily range M
Relative humidity 50 %
Moisture difference 32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 5534 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.95
Equipment sensible load 5247 Btuh

Latent Cooling Equipment Load Sizing

Structure 746 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 746 Btuh

Equipment Total Load (Sen+Lat) 5992 Btuh
Req. total capacity at 0.70 SHR 0.6 ton

Cooling Equipment Summary

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Cond AOU24RLXFZ
Coil ASUH09LPAS
AHRI ref
Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 6300 Btuh
Latent cooling 2700 Btuh
Total cooling 9000 Btuh
Actual air flow 300 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0 in H2O
Load s ensib le heat ratio 0.88

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



Project Summary

APARTMENT 1 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
Inside db 70 °F
Design TD 54 °F

Ventilation Method MJ8

Heating Summary

Structure 2936 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 2936 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	148	148
Volume (ft ³)	1328	1328
Air changes/hour	0.37	0.20
Equiv. AVF (cfm)	8	4

Heating Equipment Summary

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Model AOU24RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 0 Btuh @ 47°F
Temperature rise 0 °F
Actual air flow 300 cfm
Air flow factor 0.102 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = -6 °F

Summer Design Conditions

Outside db 90 °F
Inside db 75 °F
Design TD 15 °F
Daily range M
Relative humidity 50 %
Moisture difference 32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 1326 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.95
Equipment sensible load 1257 Btuh

Latent Cooling Equipment Load Sizing

Structure 94 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 94 Btuh

Equipment Total Load (Sen+Lat) 1351 Btuh
Req. total capacity at 0.70 SHR 0.1 ton

Cooling Equipment Summary

Make Fujitsu
Trade APARTMENT 1 CONDENSER
Cond AOU24RLXFZ
Coil ASUH07LPAS
AHRI ref
Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 4900 Btuh
Latent cooling 2100 Btuh
Total cooling 7000 Btuh
Actual air flow 300 cfm
Air flow factor 0.226 cfm/Btuh
Static pressure 0 in H2O
Load s ensib le heat ratio 0.93

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



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Project Summary
APARTMENT 1 BED 2
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
 Inside db 70 °F
 Design TD 54 °F

Ventilation Method MJ8

Heating Summary

Structure 1098 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 1098 Btuh

Infiltration

Method Simplified Average
 Construction quality 1 (Average)
 Fireplaces

	Heating	Cooling
Area (ft ²)	81	81
Volume (ft ³)	729	729
Air changes/hour	0.20	0.10
Equiv. AVF (cfm)	2	1

Heating Equipment Summary

Make Fujitsu
 Trade APARTMENT 1 CONDENSER
 Model AOU24RLXFZ
 AHRI ref
 Efficiency 10.5 HSPF2
 Heating input
 Heating output 0 Btuh @ 47°F
 Temperature rise 0 °F
 Actual air flow 300 cfm
 Air flow factor 0.273 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = -20 °F

Summer Design Conditions

Outside db 90 °F
 Inside db 75 °F
 Design TD 15 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 377 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.95
 Equipment sensible load 357 Btuh

Latent Cooling Equipment Load Sizing

Structure 28 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 28 Btuh
Equipment Total Load (Sen+Lat) 385 Btuh
 Req. total capacity at 0.70 SHR 0.0 ton

Cooling Equipment Summary

Make Fujitsu
 Trade APARTMENT 1 CONDENSER
 Cond AOU24RLXFZ
 Coil ASUH07LPAS
 AHRI ref
 Efficiency 12.5 EER2, 20 SEER2
 Sensible cooling 4900 Btuh
 Latent cooling 2100 Btuh
 Total cooling 7000 Btuh
 Actual air flow 300 cfm
 Air flow factor 0.796 cfm/Btuh
 Static pressure 0 in H2O
 Load s sensible heat ratio 0.93

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



Project Summary

APARTMENT 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
Inside db 70 °F
Design TD 54 °F

Ventilation Method MJ8

Heating Summary

Structure 6282 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 6282 Btuh

Infiltration

Method Simplified Average
Construction quality 1 (Average)
Fireplaces

	Heating	Cooling
Area (ft ²)	444	444
Volume (ft ³)	3996	3996
Air changes/hour	0.20	0.11
Equiv. AVF (cfm)	14	7

Heating Equipment Summary

Make Fujitsu
Trade APARTMENT 2 CONDENSER
Model AOU18RLXFZ
AHRI ref

Efficiency 10.5 HSPF2
Heating input
Heating output 10000 Btuh @ 47°F
Temperature rise 31 °F
Actual air flow 300 cfm
Air flow factor 0.048 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 10 °F

Summer Design Conditions

Outside db 90 °F
Inside db 75 °F
Design TD 15 °F
Daily range M
Relative humidity 50 %
Moisture difference 32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 5594 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
Rate/swing multiplier 0.95
Equipment sensible load 5303 Btuh

Latent Cooling Equipment Load Sizing

Structure 559 Btuh
Ducts 0 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 559 Btuh

Equipment Total Load (Sen+Lat) 5862 Btuh
Req. total capacity at 0.75 SHR 0.6 ton

Cooling Equipment Summary

Make Fujitsu
Trade APARTMENT 2 CONDENSER
Cond AOU18RLXFZ
Coil ASUH09LPAS
AHRI ref
Efficiency 12.5 EER2, 20 SEER2
Sensible cooling 6750 Btuh
Latent cooling 2250 Btuh
Total cooling 9000 Btuh
Actual air flow 300 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0 in H2O
Load s ensib le heat ratio 0.91

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



Project Summary
APARTMENT 2 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
 Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
 Inside db 70 °F
 Design TD 54 °F

Ventilation Method MJ8

Summer Design Conditions

Outside db 90 °F
 Inside db 75 °F
 Design TD 15 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 32 gr/lb

Heating Summary

Structure 2781 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 2781 Btuh

Sensible Cooling Equipment Load Sizing

Structure 1329 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.95
 Equipment sensible load 1260 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	147	147
Volume (ft ³)	1319	1319
Air changes/hour	0.34	0.18
Equiv. AVF (cfm)	7	4

Latent Cooling Equipment Load Sizing

Structure 87 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 87 Btuh

Equipment Total Load (Sen+Lat) 1346 Btuh
 Req. total capacity at 0.70 SHR 0.1 ton

Heating Equipment Summary

Make Fujitsu
 Trade APARTMENT 2 CONDENSER
 Model AOU18RLXFZ
 AHRI ref
 Efficiency 10.5 HSPF2
 Heating input
 Heating output 0 Btuh @ 47°F
 Temperature rise 0 °F
 Actual air flow 300 cfm
 Air flow factor 0.108 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = -7 °F

Cooling Equipment Summary

Make Fujitsu
 Trade APARTMENT 2 CONDENSER
 Cond AOU18RLXFZ
 Coil ASUH07LPAS
 AHRI ref
 Efficiency 12.5 EER2, 20 SEER2
 Sensible cooling 4900 Btuh
 Latent cooling 2100 Btuh
 Total cooling 7000 Btuh
 Actual air flow 300 cfm
 Air flow factor 0.226 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.94

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



Project Summary
APARTMENT 3 BED 1
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
 Inside db 70 °F
 Design TD 54 °F

Ventilation Method MJ8

Summer Design Conditions

Outside db 90 °F
 Inside db 75 °F
 Design TD 15 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 32 gr/lb

Heating Summary

Structure 3759 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 3759 Btuh

Sensible Cooling Equipment Load Sizing

Structure 2052 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.95
 Equipment sensible load 1945 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	225	225
Volume (ft ³)	2025	2025
Air changes/hour	0.46	0.24
Equiv. AVF (cfm)	15	8

Latent Cooling Equipment Load Sizing

Structure 179 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 179 Btuh

Equipment Total Load (Sen+Lat) 2124 Btuh
 Req. total capacity at 0.70 SHR 0.2 ton

Heating Equipment Summary

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Model AOU24RLXFZ
 AHRI ref
 Efficiency 10.5 HSPF2
 Heating input
 Heating output 0 Btuh @ 47°F
 Temperature rise 0 °F
 Actual air flow 300 cfm
 Air flow factor 0.080 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = -1 °F

Cooling Equipment Summary

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Cond AOU24RLXFZ
 Coil ASUH07LPAS
 AHRI ref
 Efficiency 12.5 EER2, 20 SEER2
 Sensible cooling 4900 Btuh
 Latent cooling 2100 Btuh
 Total cooling 7000 Btuh
 Actual air flow 300 cfm
 Air flow factor 0.146 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.92

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



Project Summary
APARTMENT 3 BED 2
B&B System Design

Job:
 Date: Dec 16, 2024
 By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Notes:

Design Information

Weather: Trenton-Mercer, NJ, US

Winter Design Conditions

Outside db 16 °F
 Inside db 70 °F
 Design TD 54 °F

Ventilation Method MJ8

Heating Summary

Structure 2151 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 2151 Btuh

Infiltration

Method Simplified Average
 Construction quality 1 (Average)
 Fireplaces

	Heating	Cooling
Area (ft ²)	151	151
Volume (ft ³)	1357	1357
Air changes/hour	0.36	0.19
Equiv. AVF (cfm)	8	4

Heating Equipment Summary

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Model AOU24RLXFZ
 AHRI ref

Efficiency 10.5 HSPF2
 Heating input
 Heating output 0 Btuh @ 47°F
 Temperature rise 0 °F
 Actual air flow 300 cfm
 Air flow factor 0.139 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat
 Capacity balance point = -12 °F

Summer Design Conditions

Outside db 90 °F
 Inside db 75 °F
 Design TD 15 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 32 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 1151 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.95
 Equipment sensible load 1092 Btuh

Latent Cooling Equipment Load Sizing

Structure 94 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh
 Equipment latent load 94 Btuh

Equipment Total Load (Sen+Lat) 1186 Btuh
 Req. total capacity at 0.70 SHR 0.1 ton

Cooling Equipment Summary

Make Fujitsu
 Trade APARTMENT 3 CONDENSER
 Cond AOU24RLXFZ
 Coil ASUH07LPAS
 AHRI ref
 Efficiency 12.5 EER2, 20 SEER2

Sensible cooling 4900 Btuh
 Latent cooling 2100 Btuh
 Total cooling 7000 Btuh
 Actual air flow 300 cfm
 Air flow factor 0.261 cfm/Btuh
 Static pressure 0 in H2O
 Load s sensible heat ratio 0.92

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



AED Assessment

Entire House

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

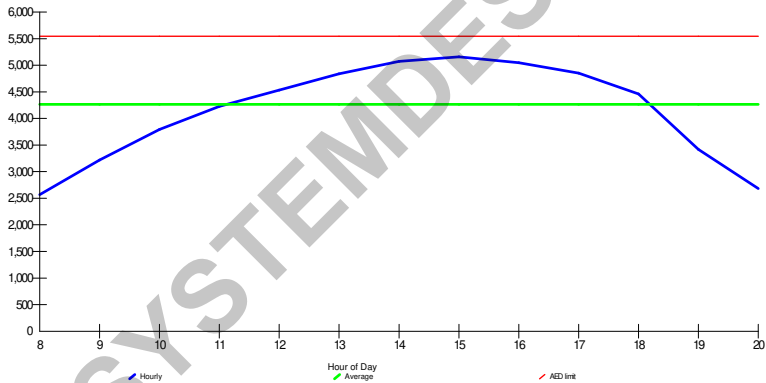
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 20.9%

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

AED excursion: 0 Btu/h

AED Assessment (Rest of House) B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

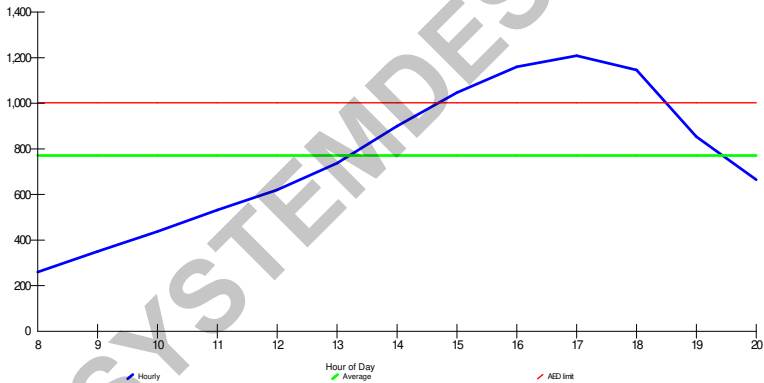
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 56.8%

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

AED excursion: 207 Btuh (PGF - 1.3*AFG)

AED Assessment

Apartment 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

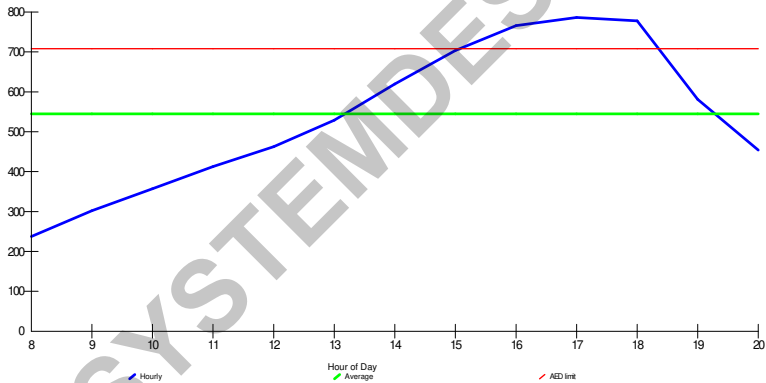
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 44.4%

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

AED excursion: 79 Btu/h (PFG - 1.3*AFG)

AED Assessment

APARTMENT 1 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

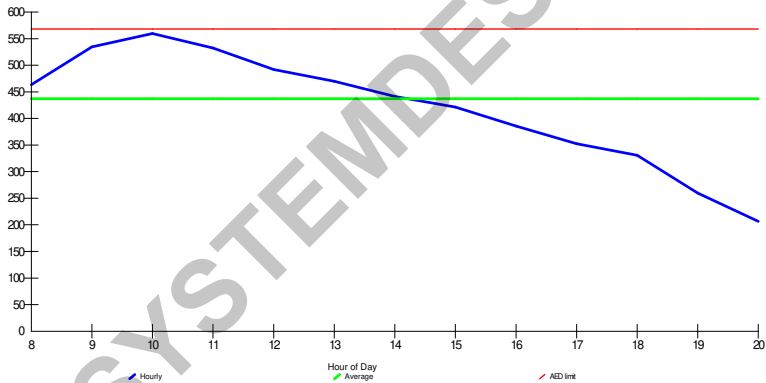
Cooling

75
15
50
32.2

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 28.0%

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

AED excursion: 0 Btuh



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AED Assessment

APARTMENT 1 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

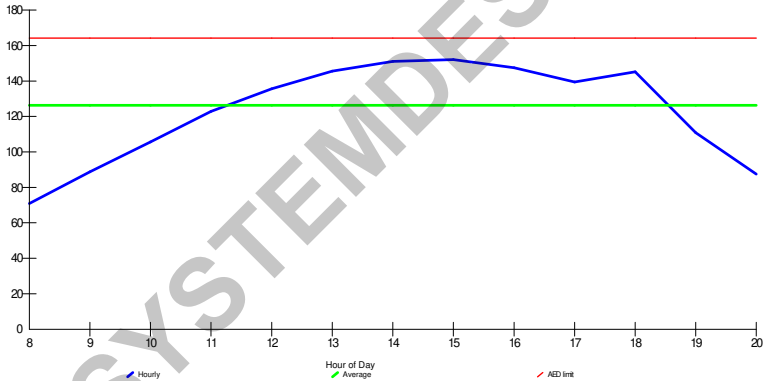
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 20.4%

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

AED excursion: 0 Btuh

AED Assessment

APARTMENT 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

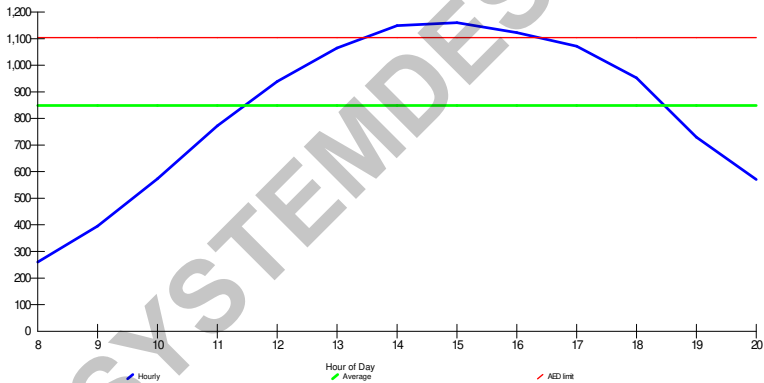
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 36.7%

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

AED excursion: 57 Btuh (PFG - 1.3*AFG)

AED Assessment

APARTMENT 2 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Outdoor:

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

Heating

16
-
-
15.0

Cooling

90
18 (M)
73
7.5

Indoor:

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

Heating

70
54
50
45.3

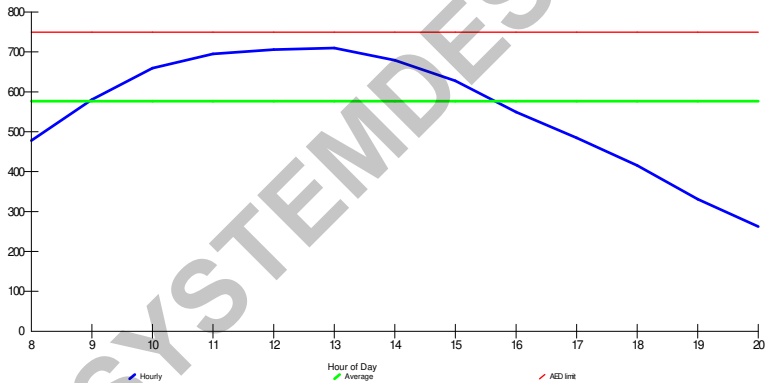
Cooling

75
15
50
32.2

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 23.2%

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

AED excursion: 0 Btuh

AED Assessment

APARTMENT 3 BED 1

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For: Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

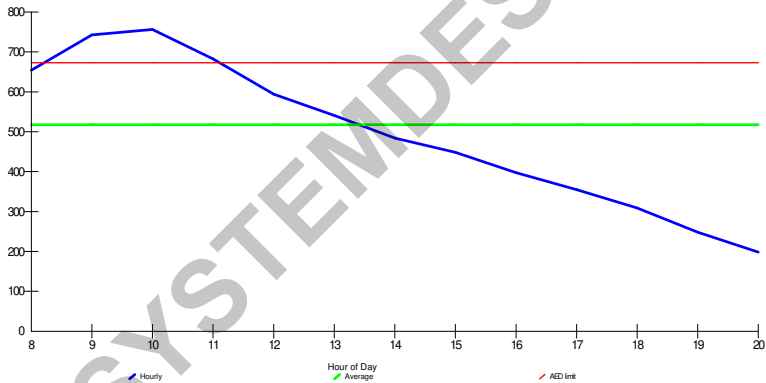
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 46.1%

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

AED excursion: 83 Btu/h (PFG - 1.3*AFG)

AED Assessment

APARTMENT 3 BED 2

B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

Project Information

For:
Ewing, NJ 08618

Design Conditions

Location:

Trenton-Mercer, NJ, US
Elevation: 190 ft
Latitude: 40°N

Indoor:

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

Heating

70
54
50
45.3

Cooling

75
15
50
32.2

Outdoor:

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

Heating

16
-
-
15.0

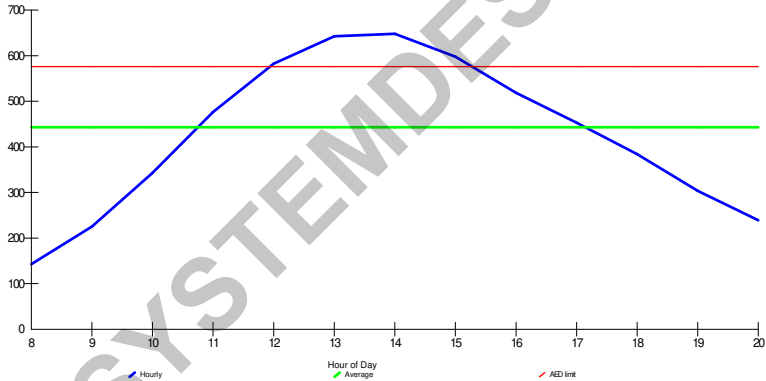
Cooling

90
18 (M)
73
7.5

Infiltration:

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 46.2%

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

AED excursion: 72 Btu/h (PFG - 1.3*AFG)

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name						Entire House				Apartment 1				
2 Exposed wall						290.0 ft				39.5 ft				
3 Room height						9.0 ft				9.0 ft				
4 Room dimensions						2187.0 ft²				385.0 ft²				
5 Room area														
Ty	Construction number	U-v alue (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area or perimeter (ft)		Load (Btuh)		Area 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	4.94	2.02	801	732	3617	1479	239	209	1030	421
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	69	0	1124	639	30	0	489	278
	W	12C-0sw	0.091	e	4.94	2.02	504	460	2273	929	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	16.29	28.01	44	0	717	1232	0	0	0	0
11	W	12C-0sw	0.091	s	4.94	2.02	801	713	3523	1440	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	67	0	1051	991	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	21	21	399	200	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	504	401	1981	810	117	86	425	174
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	40	0	652	1120	10	0	163	280
	D	11N0	0.350	w	19.00	9.52	21	21	399	200	0	0	0	0
	D	11N0	0.350	w	19.00	5.78	42	42	798	243	21	21	399	121
	C	16B-25ad	0.038	-	2.06	1.93	1246	1246	2571	2401	79	79	182	152
	F	19A-0bscp	0.295	-	6.02	1.64	1246	1246	7498	2044	385	385	2317	631
6	c) AED excursion										0			
	Env elope loss/gain										26644 13728 4985 2136			
12	a) Infiltration										5449 796 742 108			
	b) Room ventilation										0 0 0 0			
13	Internal gains:		Occupants @ Appliances/other		230		8		1840 7300		3		690 2600	
	Subtotal (lines 6 to 13)										32093 23664 5727 5534			
	Less external load										0 0 0 0			
	Less transfer										0 0 0 0			
	Redistribution										0 0 0 0			
14	Subtotal										32093 23664 5727 5534			
15	Duct loads						0% 0%		0 0		0% 0%		0 0	
	Total room load										32093 23664 5727 5534			
	Air required (cf m)										2400 2400 300 300			

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		(Rest of House)						APARTMENT 1 BED 2						
2 Exposed wall		9.0 ft 77.0 ft d						9.0 ft 7.5 ft d						
3 Room height		607.3 ft²						81.0 ft²						
4 Room dimensions														
5 Room area														
6	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	4.94	2.02	252	237	1171	479	68	56	274	112
		2 glazing, clr low-e	0.300	n	16.29	9.26	15	0	244	139	12	0	195	111
	G	12C-0sw	0.091	e	4.94	2.02	54	54	267	109	0	0	0	0
		2 glazing, clr low-e	0.300	e	16.29	28.01	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	4.94	2.02	196	170	840	343	0	0	0	0
		2 glazing, clr low-e	0.300	s	16.29	14.79	7	0	114	104	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	21	21	399	200	0	0	0	0
		12C-0sw	0.091	w	4.94	2.02	189	148	731	299	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	20	0	326	560	0	0	0	0
		11N0	0.350	w	19.00	9.52	21	21	399	200	0	0	0	0
	D	11N0	0.350	w	19.00	5.78	0	0	0	0	0	0	0	0
		16B-2Sad	0.038	-	2.06	1.93	565	565	1166	1089	0	0	0	0
F	19A-0bscp	0.295	-	6.02	1.64	42	42	253	69	81	81	487	133	
6	c) AED excursion								207				0	
	Env elope loss/gain							5911	3797			957	356	
12	a) Infiltration							1447	211			141	21	
	b) Room ventilation							0	0			0	0	
13	Internal gains:		Occupants @	230		3			690	0			0	
			Appliances/other						2100				0	
	Subtotal (lines 6 to 13)							7357	6799			1098	377	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							7357	6799			1098	377	
15	Duct loads					0%	0%	0	0	0%	0%	0	0	
	Total room load							7357	6799			1098	377	
	Air required (cf.m)							300	300			300	300	

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APARTMENT 1 BED 1				APARTMENT 2 BED 1						
2		Exposed wall		9.0 ft				9.0 ft						
3		Room height		25.5 ft				23.5 ft						
4		Room dimensions		d				d						
5		Room area		147.5 ft²				146.5 ft²						
6	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	4.94	2.02	95	83	408	167	0	0	0	0
		G 2 glazing, clr low-e	0.300	n	16.29	9.26	12	0	195	111	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	135	123	608	248	117	105	519	212
		G 2 glazing, clr low-e	0.300	e	16.29	28.01	12	0	195	336	12	0	195	336
	W	12C-0sw	0.091	s	4.94	2.02	0	0	0	0	95	83	408	167
		G 2 glazing, clr low-e	0.300	s	16.29	14.79	0	0	0	0	12	0	195	178
	D	11N0	0.350	s	19.00	9.52	0	0	0	0	0	0	0	0
		12C-0sw	0.091	w	4.94	2.02	0	0	0	0	0	0	0	0
	D	G 2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0	0	0	0	0
		11N0	0.350	w	19.00	9.52	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	19.00	5.78	0	0	0	0	0	0	0	0
16B-2Sad		0.038	-	2.06	1.93	79	79	162	152	68	68	141	131	
F	19A-0bscp	0.295	-	6.02	1.64	148	148	888	242	147	147	882	240	
6	c) AED excursion								0				0	
	Env elope loss/gain							2456	1256			2340	1264	
12	a) Infiltration							479	70			442	64	
	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)							2936	1326			2781	1329	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							2936	1326			2781	1329	
15	Duct loads				0%	0%		0	0	0%	0%	0	0	
	Total room load							2936	1326			2781	1329	
	Air required (cf m)							300	300			300	300	

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1	Room name				APARTMENT 2				APARTMENT 3 BED 1						
	Exposed wall				9.0 ft				9.0 ft						
	Room height				43.0 ft				48.5 ft						
Room dimensions				444.0 ft²				225.0 ft²							
Room area															
6	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	
11	W	12C-0sw	0.091	n	4.94	2.02	0	0	0	0	149	149	734	300	
		G	2 glazing, clr low-e	0.300	n	16.29	9.26	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	0	0	0	0	194	174	857	351	
		G	2 glazing, clr low-e	0.300	e	16.29	28.01	0	0	0	0	20	0	326	560
	W	12C-0sw	0.091	s	4.94	2.02	252	224	110.7	453	95	95	467	191	
		G	2 glazing, clr low-e	0.300	s	16.29	14.79	28	0	456	414	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	0	0	0	0	0	0	0	0	
		W	12C-0sw	0.091	w	4.94	2.02	135	104	514	210	0	0	0	0
	D	G	2 glazing, clr low-e	0.300	w	16.29	28.01	10	0	163	280	0	0	0	0
		D	11N0	0.350	w	19.00	9.52	0	0	0	0	0	0	0	0
	C	D	11N0	0.350	w	19.00	5.78	21	21	399	121	0	0	0	0
F		16B-25ad	0.038	-	2.06	1.93	79	79	164	153	225	225	464	433	
F	19A-0bscp		0.295	-	6.02	1.64	444	444	2672	728	0	0	0	0	
6	c) AED excursion									57				83	
	Env elope loss/gain								5474	2416			2848	1919	
12	a) Infiltration								808	118			911	133	
	b) Room ventilation								0	0			0	0	
13	Internal gains:				Occupants @	230	2			460	0			0	
					Appliances/other					2600				0	
	Subtotal (lines 6 to 13)								6282	5594			3759	2052	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								6282	5594			3759	2052	
15	Duct loads						0%	0%	0	0	0%	0%	0	0	
	Total room load								6282	5594			3759	2052	
	Air required (cf.m)								300	300			300	300	

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

		APARTMENT 3 BED 2												
1	Room name					9.0 ft		d						
2	Exposed wall					25.5 ft								
3	Room height													
4	Room dimensions													
5	Room area					150.8 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	4.94	2.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	5	5	22	9				
	G	2 glazing, clr low-e	0.300	e	16.29	28.01	0	0	0	0				
11	W	12C-0sw	0.091	s	4.94	2.02	162	142	702	267				
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	20	0	326	296				
	D	11N0	0.350	s	19.00	9.52	0	0	0	0				
	W	12C-0sw	0.091	w	4.94	2.02	63	63	311	127				
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0				
	D	11N0	0.350	w	19.00	9.52	0	0	0	0				
	D	11N0	0.350	w	19.00	5.78	0	0	0	0				
	C	16B-25asd	0.036	-	2.06	1.93	151	151	311	290				
	F	19A-0bscp	0.295	-	6.02	1.64	0	0	0	0				
6	c) AED excursion									72				
	Envelope loss/gain								1672	1082				
12	a) Infiltration								479	70				
	b) Room ventilation								0	0				
13	Internal gains:		Occupants @	230			0			0				
			Appliances/other							0				
	Subtotal (lines 6 to 13)								2151	1151				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								2151	1151				
15	Duct loads						0%	0%	0	0				
	Total room load								2151	1151				
	Air required (cf.m)								300	300				

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



Right-J® Worksheet
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		(Rest of House)				APT3 BATH								
2 Exposed wall		9.0 ft 77.0 ft d				9.0 ft 11.5 ft heat/cool								
3 Room height		607.3 ft²				57.5 ft² 1.0 x 57.5 ft								
4 Room dimensions														
5 Room area														
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	4.94	2.02	252	237	1171	479	0	0	0	0
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	15	0	244	139	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	54	54	267	109	54	54	267	109
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	4.94	2.02	196	170	840	343	50	50	245	100
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	7	0	114	104	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	21	21	399	200	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	189	148	731	299	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	20	0	326	560	0	0	0	0
	D	11N0	0.350	w	19.00	9.52	21	21	399	200	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-2Sad	0.038	-	2.06	1.93	565	565	1166	1089	58	58	119	111
	F	19A-0bscp	0.295	-	6.02	1.64	42	42	253	69	0	0	0	0
6	c) AED excursion									207				-5
	Env elope loss/gain							5911	3797			630	315	
12	a) Infiltration							1447	211			216	32	
	b) Room ventilation							0	0			0	0	
13	Internal gains:		Occupants @		230		3		690	0				
			Appliances/other						2100					
	Subtotal (lines 6 to 13)							7357	6799			846	346	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							7357	6799			846	346	
15	Duct loads						0%	0%	0	0	-0%	0%	0	0
	Total room load							7357	6799			846	346	
	Air required (cf.m)							300	300			35	15	

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



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Right-J® Worksheet
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		APT3 KITCHEN						APT3 HALL						
2 Exposed wall		12.0 ft						0 ft						
3 Room height		9.0 ft						9.0 ft						
4 Room dimensions		13.0 x 12.0 ft						1.0 x 94.5 ft						
5 Room area		156.0 ft²												
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	4.94	2.02	108	93	460	188	0	0	0	0
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	15	0	244	139	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	4.94	2.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	19.00	9.52	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-2Sad	0.038	-	2.06	1.93	156	156	322	301	95	95	195	182
	F	19A-0bscp	0.295	-	6.02	1.64	0	0	0	0	0	0	0	0
6	c) AED excursion									-27				-3
	Envelope loss/gain								1026	601			195	179
12	a) Infiltration								225	33			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0				0	0			0
			Appliances/other							1200				0
	Subtotal (lines 6 to 13)								1251	1834			195	179
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1251	1834			195	179
15	Duct loads								-0%	0%			0	0
	Total room load								1251	1834			195	179
	Air required (cf.m)								51	81			8	8

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



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Right-J® Worksheet
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APT3 LIVING				APT3 LAUNDRY						
2		Exposed wall		34.5 ft				13.0 ft						
3		Room height		9.0 ft				9.0 ft						
4		Room dimensions		13.5 x 16.0 ft				7.5 x 5.5 ft						
5		Room area		216.0 ft²				41.3 ft²						
6	Ty	Construction number	U-v alue (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²)		Load (Btuh)		Area (ft²)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	4.94	2.02	95	95	467	191	50	50	245	100
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	4.94	2.02	95	95	467	191	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	122	81	398	163	68	68	334	136
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	20	0	326	560	0	0	0	0
	D	11N0	0.350	w	19.00	9.52	21	21	399	200	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-25ad	0.038	-	2.06	1.93	216	216	446	416	41	41	85	79
	F	19A-0bscp	0.295	-	6.02	1.64	0	0	0	0	0	0	0	0
6	c) AED excursion								228					-5
	Env elope loss/gain							2502	1948			663	311	
12	a) Infiltration							648	95			244	36	
	b) Room ventilation							0	0			0	0	
13	Internal gains:		Occupants @		230		3		690	0				
			Appliances/other						900					
	Subtotal (lines 6 to 13)							3151	3633			908	346	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							3151	3633			908	346	
15	Duct loads						-0%	0%	0	0	-0%	0%	0	0
	Total room load							3151	3633			908	346	
	Air required (cf.m)							128	160			37	15	

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



Right-J® Worksheet
(Rest of House)
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

		Room name		Exposed wall		Room height		Room dimensions		Room area		APT3 MUD		6.0 ft		9.0 ft		1.0 x		42.0 ft		heat/cool		42.0 ft²	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
6	W	12C-0sw	0.091	n	4.94	2.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	4.94	2.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	4.94	2.02	54	26	128	53	0	114	104	0	0	0	0	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	7	0	114	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	19.00	9.52	21	21	399	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	19.00	9.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	C	16B-25asd	0.038	-	2.06	1.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	19A-0bscp	0.295	-	6.02	1.64	42	42	253	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	c) AED excursion																								
	Env envelope loss/gain																								
12	a) Infiltration																								
	b) Room ventilation																								
13	Internal gains:		Occupants @	230			0																		
			Appliances/other																						
	Subtotal (lines 6 to 13)																								
	Less external load																								
	Less transfer																								
	Redistribution																								
14	Subtotal																								
15	Duct loads																								
	Total room load																								
	Air required (cf.m)																								

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		Apartment 1				APT 1 HALL											
2 Exposed wall		9.0 ft				0 ft											
3 Room height		39.5 ft				d											
4 Room dimensions		9.0 ft				1.0 x 76.0 ft											
5 Room area		385.0 ft²				76.0 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	12C-0sw	0.091	n	4.94	2.02	239	209	1030	421	0	0	0	0			
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	30	0	489	278	0	0	0	0			
	W	12C-0sw	0.091	e	0.00	0.00	0	0	0	0	0	0	0	0			
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0			
11	W	12C-0sw	0.091	s	0.00	0.00	0	0	0	0	0	0	0	0			
	G	2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0			
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0			
	W	12C-0sw	0.091	w	4.94	2.02	117	86	425	174	0	0	0	0			
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	10	0	163	280	0	0	0	0			
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0			
	D	11N0	0.350	w	19.00	5.78	21	21	399	121	0	0	0	0			
	C	16B-2Sad	0.038	-	2.06	1.93	79	79	162	152	0	0	0	0			
	F	19A-0bscp	0.295	-	6.02	1.64	385	385	2317	631	76	76	457	125			
6	c) AED excursion													-4			
	Envelope loss/gain													457	120		
12	a) Infiltration													0	0		
	b) Room ventilation													0	0		
13	Internal gains: Occupants @ 230													690	0		
	Appliances/other													2600	500		
	Subtotal (lines 6 to 13)													5727	5534	457	620
	Less external load													0	0	0	0
	Less transfer													0	0	0	0
	Redistribution													0	0	0	0
14	Subtotal													5727	5534	457	620
15	Duct loads													0%	0%	-0%	0%
	Total room load													5727	5534	457	620
	Air required (cf.m)													300	300	24	34

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



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Right-Suite® Universal 2024 24.0.03 RSU64913

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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APT1 BATH				APT1 LIVING						
2		Exposed wall		6.0 ft				21.0 ft						
3		Room height		9.0 ft				9.0 ft						
4		Room dimensions		6.0 x 6.0 ft				13.0 x 8.0 ft						
5		Room area		36.0 ft²				104.0 ft²						
6	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	4.94	2.02	54	48	237	97	72	60	296	121
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	6	0	98	56	12	0	195	111
	W	12C-0sw	0.091	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0	117	86	425	174
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0	10	0	163	280
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	19.00	5.78	0	0	0	0	21	21	399	121
	C	16B-2Sad	0.038	-	2.06	1.93	0	0	0	0	60	50	124	116
	F	19A-0bscp	0.295	-	6.02	1.64	36	36	217	59	104	104	626	171
6	c) AED excursion									-2				97
	Env elope loss/gain								552	210			2229	1190
12	a) Infiltration								113	16			395	58
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @		230		0			0	3			690
			Appliances/other							0				900
	Subtotal (lines 6 to 13)								664	227			2623	2838
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								664	227			2623	2838
15	Duct loads						-0%	0%	0	0	-0%	0%	0	0
	Total room load								664	227			2623	2838
	Air required (cf.m)								35	12			137	154

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		APT1 KITCHEN													
2 Exposed wall		12.5 ft													
3 Room height		9.0 ft 1.0 x heat/cool													
4 Room dimensions		169.0 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 or perimeter		Load			
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool		
6	W	12C-0sw	0.091	n	4.94	2.02	113	101	497	203					
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	12	0	195	111					
	W	12C-0sw	0.091	e	0.00	0.00	0	0	0	0					
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0					
11	W	12C-0sw	0.091	s	0.00	0.00	0	0	0	0					
	G	2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0					
	D	11N0	0.350	s	0.00	0.00	0	0	0	0					
	W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0					
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0					
	D	11N0	0.350	w	0.00	0.00	0	0	0	0					
	D	11N0	0.350	w	19.00	5.78	0	0	0	0					
	C	16B-25asd	0.036	-	2.06	1.93	19	19	39	36					
	F	19A-0bscp	0.295	-	6.02	1.64	169	169	1017	277					
6	c) AED excursion														
	Env elope loss/gain														
										1748	615				
12	a) Infiltration									235	34				
	b) Room ventilation									0	0				
13	Internal gains:				Occupants @	230		0							
					Appliances/other					1200					
	Subtotal (lines 6 to 13)									1983	1849				
	Less external load									0	0				
	Less transfer									0	0				
	Redistribution									0	0				
14	Subtotal									1983	1849				
15	Duct loads									-0%	0%	0	0		
	Total room load									1983	1849				
	Air required (cf.m)									164	100				

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



Right-J® Worksheet
APARTMENT 1 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

		APARTMENT 1 BED 1				APT1 BEDROOM								
1	Room name	25.5 ft				25.5 ft								
2	Exposed wall	9.0 ft				9.0 ft								
3	Room height	d				heat/cool								
4	Room dimensions	147.5 ft²				1.0 x 147.5 ft								
5	Room area	147.5 ft²				147.5 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	4.94	2.02	95	83	408	167	95	83	408	167
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	12	0	195	111	12	0	195	111
	W	12C-0sw	0.091	e	4.94	2.02	135	123	608	248	135	123	608	248
	G	2 glazing, clr low-e	0.300	e	16.29	28.01	12	0	195	336	12	0	195	336
11	W	12C-0sw	0.091	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-2Sad	0.038	-	2.06	1.93	79	79	162	152	79	79	162	152
	F	19A-0bscp	0.295	-	6.02	1.64	148	148	888	242	148	148	888	242
6	c) AED excursion								0					0
	Env elope loss/gain								2456	1256			2456	1256
12	a) Infiltration								479	70			479	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)								2936	1326			2936	1326
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2936	1326			2936	1326
15	Duct loads					0%	0%		0	0	-0%	0%	0	0
	Total room load								2936	1326			2936	1326
	Air required (cf.m)								300	300			300	300

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



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Right-J® Worksheet
APARTMENT 1 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APARTMENT 1 BED 2				APT1 BEDROOM 2						
2		Exposed wall		7.5 ft				7.5 ft						
3		Room height		9.0 ft				9.0 ft						
4		Room dimensions		d				1.0 x 81.0 ft						
5		Room area		81.0 ft²				81.0 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	4.94	2.02	68	56	274	112	68	56	274	112
	G	2 glazing, clr low-e	0.300	n	16.29	9.26	12	0	195	111	12	0	195	111
	W	12C-0sw	0.091	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-2Sad	0.038	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19A-0bscp	0.295	-	6.02	1.64	81	81	487	133	81	81	487	133
6	c) AED excursion								0				0	
	Env elope loss/gain								957	356			957	356
12	a) Infiltration								141	21			141	21
	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)								1098	377			1098	377
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1098	377			1098	377
15	Duct loads						0%	0%	0	0	-0%	0%	0	0
	Total room load								1098	377			1098	377
	Air required (cf.m)								300	300			300	300

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		APARTMENT 2						APT2 BATH						
2 Exposed wall		9.0 ft						5.5 ft						
3 Room height		d						heat/cool						
4 Room dimensions		444.0 ft²						9.0 ft x 5.5 ft						
5 Room area		444.0 ft²						57.8 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	0.00	0.00	0	0	0	0	0	0	0	0
	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	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	s	4.94	2.02	252	224	1107	453	50	44	215	89
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	28	0	456	414	6	0	39	89
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	135	104	514	210	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	10	0	163	280	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	19.00	5.78	21	21	399	121	0	0	0	0
	C	16B-25ad	0.038	-	2.06	1.93	79	79	164	153	6	6	12	11
	F	19A-0bscp	0.295	-	6.02	1.64	444	444	2672	728	58	58	348	95
6	c) AED excursion													18
	Envelope loss/gain													300
12	a) Infiltration													15
	b) Room ventilation													0
13	Internal gains: Occupants @ Appliances/other 230													0
	Subtotal (lines 6 to 13)													315
	Less external load													0
	Less transfer													0
	Redistribution													0
14	Subtotal													315
15	Duct loads													0
	Total room load													17
	Air required (cf.m)													17

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1	Room name				APT2 HALL				APT2 LIVING						
	Exposed wall				0 ft				25.0 ft						
	Room height				9.0 ft				9.0 ft						
3	Room dimensions				61.3 ft ²				150.0 ft ²						
5	Room area				61.3 ft ²				150.0 ft ²						
	Ty	Construction number	U-v alue (Btuh/ft ² ·°F)	Or	HTM (Btuh/ft ²)		Area (ft ²)		Load (Btuh)		Area (ft ²)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12C-0sw	0.091	n	0.00	0.00	0	0	0	0	0	0	0	0	
	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	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0.091	s	4.94	2.02	0	0	0	0	90	78	385	158	
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	0	0	0	0	12	0	195	178	
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0	135	104	514	210	
	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0	10	0	163	280	
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11N0	0.350	w	19.00	5.78	0	0	0	0	21	21	399	121	
	C	16B-2Sad	0.038	-	2.06	1.93	0	0	0	0	70	70	144	135	
	F	19A-0bscp	0.295	-	6.02	1.64	61	61	369	100	150	150	903	246	
6	c) AED excursion											-7	33		
	Env elope loss/gain											369	93	2704	1360
12	a) Infiltration											0	0	470	69
	b) Room ventilation											0	0	0	0
13	Internal gains:				Occupants @	230	0	0	0	2			460		
					Appliances/other				500				900		
	Subtotal (lines 6 to 13)											369	593	3174	2789
	Less external load											0	0	0	0
	Less transfer											0	0	0	0
	Redistribution											0	0	0	0
14	Subtotal											369	593	3174	2789
15	Duct loads											-0%	0%	0	0
	Total room load											369	593	3174	2789
	Air required (cf.m)											16	32	152	150

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



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

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APT2 KITCHEN				APT2 DINING								
2		Exposed wall		7.5 ft				5.0 ft								
3		Room height		9.0 ft				9.0 ft								
4		Room dimensions		14.0 x 7.5 ft				14.0 x 5.0 ft								
5		Room area		105.0 ft²				70.0 ft²								
6	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²)		Load (Btuh)		Area (ft²)		Load (Btuh)			
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool		
6	W	12C-0sw	0.091	n	0.00	0.00	0	0	0	0	0	0	0	0	0	
		G	2 glazing, clr low-e	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	0.00	0.00	0	0	0	0	0	0	0	0	0	
		G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	4.94	2.02	66	66	334	136	45	35	173	71	71	
		G	2 glazing, clr low-e	0.300	s	16.29	14.79	0	0	0	0	10	0	163	148	
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0	0	
		W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0	0	0	0	0	0
	D	G	2 glazing, clr low-e	0.300	w	16.29	28.01	0	0	0	0	0	0	0	0	0
		D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	19.00	5.78	0	0	0	0	0	0	0	0	0	
C		16B-25ad	0.038	-	2.06	1.93	0	0	0	0	4	4	7	7		
F	19A-0bscp	0.295	-	6.02	1.64	105	105	632	172	70	70	421	115			
6	c) AED excursion									-18				31		
	Envelope loss/gain							965	290			764		372		
12	a) Infiltration							141	21			94		14		
	b) Room ventilation							0	0			0		0		
13	Internal gains:		Occupants @	230		0				0	0			0		
			Appliances/other							1200				0		
	Subtotal (lines 6 to 13)							1106	1511			858		385		
	Less external load							0	0			0		0		
	Less transfer							0	0			0		0		
	Redistribution							0	0			0		0		
14	Subtotal							1106	1511			858		385		
15	Duct loads						-0%	0%	0	0	-0%	0%	0	0		
	Total room load							1106	1511			858		385		
	Air required (cf.m)							53	81			41		21		

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



Right-J® Worksheet
APARTMENT 2 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APARTMENT 2 BED 1				APT2 BEDROOM						
2		Exposed wall		23.5 ft				23.5 ft						
3		Room height		9.0 ft				9.0 ft						
4		Room dimensions		d				1.0 x 146.5 ft						
5		Room area		146.5 ft²				146.5 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	0.00	0.00	0	0	0	0	0	0	0	0
	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	4.94	2.02	117	105	519	212	117	105	519	212
	G	2 glazing, clr low-e	0.300	e	16.29	28.01	12	0	195	336	12	0	195	336
11	W	12C-0sw	0.091	s	4.94	2.02	95	83	468	167	95	83	408	167
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	12	0	195	178	12	0	195	178
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-2Sad	0.038	-	2.06	1.93	68	68	141	131	68	68	141	131
	F	19A-0bscp	0.295	-	6.02	1.64	147	147	882	240	147	147	882	240
6	c) AED excursion									0				0
	Env elope loss/gain								2340	1264			2340	1264
12	a) Infiltration								442	64			442	64
	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)								2781	1329			2781	1329
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2781	1329			2781	1329
15	Duct loads						0%	0%	0	0	-0%	0%	0	0
	Total room load								2781	1329			2781	1329
	Air required (cf.m)								300	300			300	300

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



wrightsoft
RIGHT JOINT SYSTEMS

Right-Suite® Universal 2024 24.0.03 RSU64913

2024-Dec-29 10:17:01

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Right-J® Worksheet
APARTMENT 3 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APARTMENT 3 BED 1				APT3 BEDROOM						
2		Exposed wall		48.5 ft				35.0 ft						
3		Room height		9.0 ft				9.0 ft						
4		Room dimensions		d				1.0 x 180.0 ft						
5		Room area		225.0 ft²				180.0 ft²						
6	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
11	W	12C-0sw	0.091	n	4.94	2.02	149	149	734	300	95	95	467	191
		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	4.94	2.02	194	174	857	351	126	106	524	214
		G 2 glazing, clr low-e	0.300	e	16.29	28.01	20	0	326	560	20	0	326	560
	W	12C-0sw	0.091	s	4.94	2.02	95	95	467	191	95	95	467	191
		G 2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
		12C-0sw	0.091	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
		D 11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
16B-2Sad		0.038	-	2.06	1.93	225	225	464	433	180	180	371	347	
F	19A-0bscp	0.295	-	0.00	0.00	0	0	0	0	0	0	0	0	
6	c) AED excursion								83				83	
	Env elope loss/gain							2848	1919			2155	1586	
12	a) Infiltration							911	133			658	96	
	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)							3759	2052			2813	1682	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							3759	2052			2813	1682	
15	Duct loads				0%	0%		0	0	-0%	0%	0	0	
	Total room load							3759	2052			2813	1682	
	Air required (cf.m)							300	300			224	246	

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



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Right-Suite® Universal 2024 24.0.03 RSU64913

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Right-J® Worksheet
APARTMENT 3 BED 1
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1	Room name				APT3 WIC									
	Exposed wall				13.5 ft									
	Room height				9.0 ft				heat/cool					
4	Room dimensions				45.0 ft ²				7.5 x 6.0 ft					
5	Room area													
	Ty	Construction number	U-v alue (Btuh/ft ² ·°F)	Or	HTM (Btuh/ft ²)		Area (ft ²) 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	4.94	2.02	54	54	267	109				
	G	2 glazing, clr low-e	0.300	n	0.00	0.00	0	0	0	0				
	W	12C-0sw	0.091	e	4.94	2.02	68	68	334	136				
	G	2 glazing, clr low-e	0.300	e	16.29	28.01	0	0	0	0				
11	W	12C-0sw	0.091	s	4.94	2.02	0	0	0	0				
	G	2 glazing, clr low-e	0.300	s	0.00	0.00	0	0	0	0				
	D	11N0	0.350	s	0.00	0.00	0	0	0	0				
	W	12C-0sw	0.091	w	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0				
	D	11N0	0.350	w	0.00	0.00	0	0	0	0				
	D	11N0	0.350	w	0.00	0.00	0	0	0	0				
	C	16B-25sad	0.038	-	2.06	1.93	45	45	93	87				
	F	19A-0bscp	0.295	-	0.00	0.00	0	0	0	0				
6	c) AED excursion									0				
	Env elope loss/gain								693	332				
12	a) Infiltration								254	37				
	b) Room ventilation								0	0				
13	Internal gains:				Occupants @	230		0		0				
					Appliances/other					0				
	Subtotal (lines 6 to 13)								947	369				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								947	369				
15	Duct loads						-0%	0%	0	0				
	Total room load								947	369				
	Air required (cf.m)								76	54				

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



Right-J® Worksheet
APARTMENT 3 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1		Room name		APARTMENT 3 BED 2						APT3 WIC 2				
2		Exposed wall		25.5 ft						12.5 ft				
3		Room height		9.0 ft						9.0 ft				
4		Room dimensions		150.8 ft²						38.5 ft²				
5		Room area		150.8 ft²						38.5 ft²				
6	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
11	W	12C-0sw	0.091	n	0.00	0.00	0	0	0	0	0	0	0	0
	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	4.94	2.02	5	5	22	9	0	0	0	0
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	4.94	2.02	162	142	702	267	50	50	245	100
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	20	0	326	296	0	0	0	0
	D	11N0	0.350	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	4.94	2.02	63	63	311	127	63	63	311	127
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
	D	11N0	0.350	w	0.00	0.00	0	0	0	0	0	0	0	0
C	16B-2Sad	0.036	-	2.06	1.93	151	151	311	290	39	39	79	74	
F	19A-0bscp	0.295	-	0.00	0.00	0	0	0	0	0	0	0	0	
6	c) AED excursion									72				0
	Env elope loss/gain							1672	1082			635	301	
12	a) Inf iltration							479	70			235	34	
	b) Room v entilation							0	0			0	0	
13	Internal gains:		Occupants @	230		0				0	0			
			Appliances/other							0	0			
	Subtotal (lines 6 to 13)							2151	1151			870	336	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							2151	1151			870	336	
15	Duct loads				0%	0%		0	0	-0%	0%	0	0	
	Total room load							2151	1151			870	336	
	Air required (cf.m)							300	300			121	87	

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



Right-J® Worksheet
APARTMENT 3 BED 2
B&B System Design

Job:
Date: Dec 16, 2024
By: Bobby Blough

Vineland, NJ 08361

1 Room name		APT3 BEDROOM 2													
2 Exposed wall		13.0 ft													
3 Room height		9.0 ft heat/cool													
4 Room dimensions		112.3 ft ² 1.0 x 112.3 ft													
5 Room area		112.3 ft ²													
Ty	Construction number	U-v value (Btuh/ft ² ·°F)	Or	HTM (Btuh/ft ²)		Area (ft ²) 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	0.00	0.00	0	0	0	0					
	G	2 glazing, clr low-e	0.300	n	0.00	0.00	0	0	0	0					
	W	12C-0sw	0.091	e	4.94	2.02	5	5	22	9					
	G	2 glazing, clr low-e	0.300	e	0.00	0.00	0	0	0	0					
11	W	12C-0sw	0.091	s	4.94	2.02	113	93	457	167					
	G	2 glazing, clr low-e	0.300	s	16.29	14.79	20	0	326	296					
	D	11N0	0.350	s	0.00	0.00	0	0	0	0					
	W	12C-0sw	0.091	w	4.94	2.02	0	0	0	0					
	G	2 glazing, clr low-e	0.300	w	0.00	0.00	0	0	0	0					
	D	11N0	0.350	w	0.00	0.00	0	0	0	0					
	D	11N0	0.350	w	0.00	0.00	0	0	0	0					
	C	16B-25asd	0.036	-	2.06	1.93	112	112	232	216					
	F	19A-0bscp	0.295	-	0.00	0.00	0	0	0	0					
6	c) AED excursion												72		
	Env elope loss/gain												1037	780	
12	a) Infiltration												244	36	
	b) Room ventilation												0	0	
13	Internal gains:												0	0	
	Occupants @ 230												0	0	
	Appliances/other												0	0	
	Subtotal (lines 6 to 13)												1281	816	
	Less external load												0	0	
	Less transfer												0	0	
	Redistribution												0	0	
14	Subtotal												1281	816	
15	Duct loads												0	0	
	Total room load												1281	816	
	Air required (cf.m)												179	213	

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

