



Load Short Form
Combined Loads
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

Make	Triangle Tube
Trade	TRIANGLE TUBE
Model	INSTINCT SOLO 110
AHRI ref	204469772
Efficiency	95 AFUE
Heating input	110000 Btuh
Heating output	102000 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

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	724 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	1.00

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Z1 (Owner Entry)	357	2411	1372	0	76
Z2 (GARAGE)	720	7209	1042	0	57
Z3 (MASTER)	514	5905	3588	0	197
Z4 (COMMONS)	629	5764	4640	0	255
Z5 (COMMONS)	440	8755	5797	0	319
Z6 (BSMT L)	521	2520	0	0	0
Z7 (BSMNT M)	627	1807	0	0	0
Z8 (BSMNT R)	427	2283	0	0	0

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



Combined Loads	4234	36655	12346	0	724
Other equip loads		0	0		
Equip. @ 0.90 RSM			11087		
Latent cooling			0		
TOTALS	4234	36655	11087	0	724

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Load Short Form
Z1 (Owner Entry)
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Design Information

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Outside db (°F)	-1	85	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	71	10	Fireplaces	1 (Average)
Daily range	-	H		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	37	-49		

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bath 1	66	226	46	0	3
Laundry	55	187	538	0	30
Mech	81	483	578	0	32
Mud Room	155	1515	211	0	12
Z1 (Owner Entry)	357	2411	1372	0	76
Other equip loads		0	0		
Equip. @ 0.90 RSM			1232		
Latent cooling			0		
TOTALS	357	2411	1232	0	76

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Load Short Form
Z2 (GARAGE)
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Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Garage	720	7209	1042	0	57
Z2 (GARAGE)	720	7209	1042	0	57
Other equip loads		0	0		
Equip. @ 0.90 RSM			935		
Latent cooling			0		
TOTALS	720	7209	935	0	57

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Load Short Form
Z3 (MASTER)
All Climate Design Company

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Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
M. Bath	126	1073	180	0	10
M. Bed	340	4233	3040	0	167
M. Clst	28	574	354	0	19
M. Tlt	20	26	14	0	1
Z3 (MASTER)	514	5905	3588	0	197
Other equip loads		0	0		
Equip. @ 0.90 RSM			3222		
Latent cooling			0		
TOTALS	514	5905	3222	0	197

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Load Short Form
Z4 (COMMONS)
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	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bed 1	134	2495	663	0	36
Cist 1	22	29	15	0	1
Dining Room	202	2893	2777	0	153
Kitchen	218	280	1149	0	63
M. Hall	52	67	36	0	2
Z4 (COMMONS)	629	5764	4640	0	255
Other equip loads		0	0		
Equip. @ 0.90 RSM			4167		
Latent cooling			0		
TOTALS	629	5764	4167	0	255

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Z5 (COMMONS)
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Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Living Room	319	5104	4264	0	235
M. Stair	121	3651	1532	0	84
Z5 (COMMONS)	440	8755	5797	0	319
Other equip loads		0	0		
Equip. @ 0.90 RSM			5205		
Latent cooling			0		
TOTALS	440	8755	5205	0	319

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Load Short Form
Z6 (BSMT L)
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Email: michael@chiartanoeg.com



Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bath 2	89	50	0	0	0
Bed 2	225	1419	0	0	0
C1st 2	23	68	0	0	0
Storage	139	727	0	0	0
T1t 2	46	255	0	0	0
Z6 (BSMT L)	521	2520	0	0	0
Other equip loads		0	0		
Equip. @ 0.90 RSM			0		
Latent cooling			0		
TOTALS	521	2520	0	0	0

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Load Short Form
Z7 (BSMNT M)
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 Email: michael@chiartanoeg.com



Design Information

	Htg	Clg		Infiltration	
Outside db (°F)	-1	85	Method		Simplified
Inside db (°F)	70	75	Construction quality		Average
Design TD (°F)	71	10	Fireplaces		1 (Average)
Daily range	-	H			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	37	-49			

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Basement	627	1807	0	0	0
Z7 (BSMNT M)	627	1807	0	0	0
Other equip loads		0	0		
Equip. @ 0.90 RSM		0	0		
Latent cooling		0	0		
TOTALS	627	1807	0	0	0

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Load Short Form
Z8 (BSMNT R)
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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	-1	85	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	71	10	Fireplaces	1 (Average)
Daily range	-	H		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	37	-49		

HEATING EQUIPMENT

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

COOLING EQUIPMENT

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

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bath 3	97	190	0	0	0
Bed 3	214	1424	0	0	0
BStair	92	602	0	0	0
Clst 3	24	67	0	0	0
Z8 (BSMNT R)	427	2283	0	0	0
Other equip loads		0	0		
Equip. @ 0.90 RSM			0		
Latent cooling			0		
TOTALS	427	2283	0	0	0

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Loads for Multiple Orientations

Combined Loads

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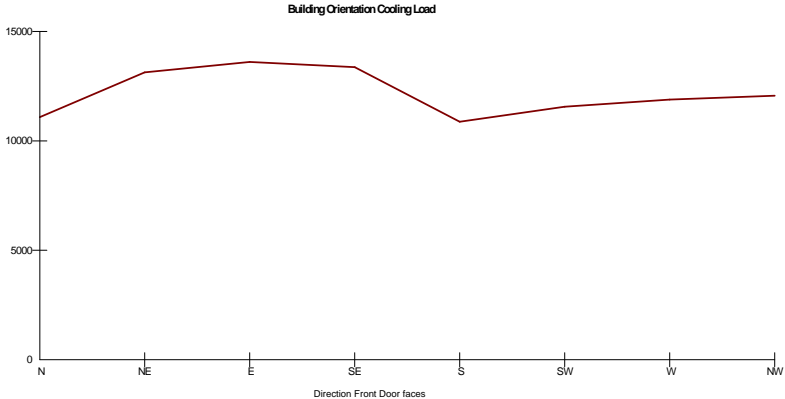
Email: michael@chiartanoeg.com



Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) 70 Design TD (°F) 71 Relative humidity (%) 30 Moisture difference (gr/lb) 37.0	Heating 70	Cooling 75 10 50 -48.8
Outdoor: Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating -1 - - 15.0	Cooling 85 33 (H) 55 7.5		
		Infiltration:		

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	11087	13131	13604	13365	10877	11559	11885	12066
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	11087	13131	13604	13365	10877	11559	11885	12066
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	724	857	888	873	710	755	776	788



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces East

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Z1 (Owner Entry)

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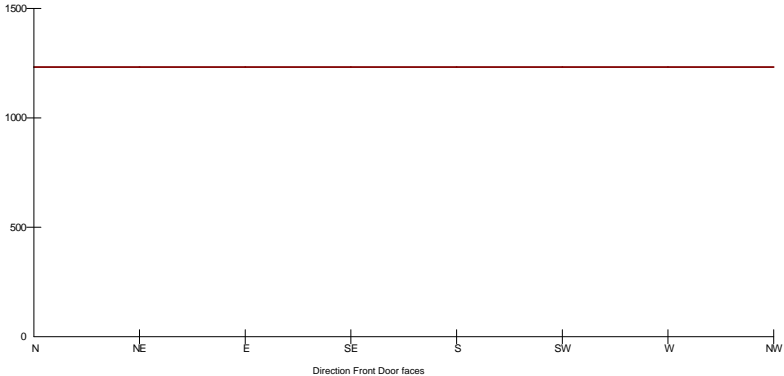


Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 71 30 37.0	Cooling 75 10 50 -48.8
Outdoor: Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating -1 - - 15.0	Cooling 85 33 (H) 55 7.5	Infiltration:	

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	1232	1232	1232	1232	1232	1232	1232	1232
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	1232	1232	1232	1232	1232	1232	1232	1232
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	76	77	79	79	76	74	77	78

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces North

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Loads for Multiple Orientations

Z8 (BSMNT R)

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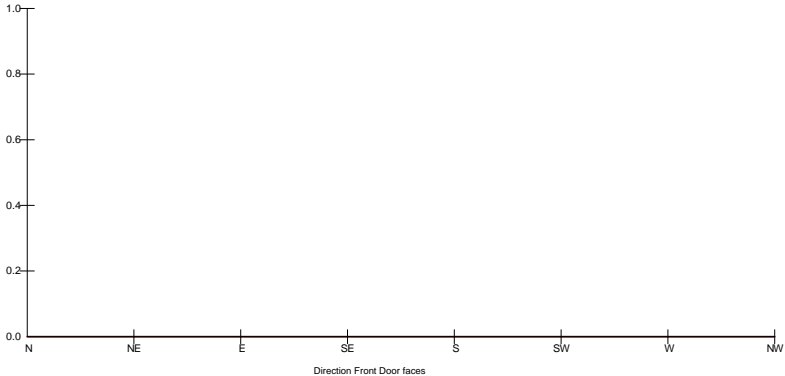


Design Conditions

Location:				Indoor:	Heating	Cooling
Steamboat Springs, CO, US				Indoor temperature (°F)	70	75
Elevation: 6879 ft				Design TD (°F)	71	10
Latitude: 41°N				Relative humidity (%)	30	50
				Moisture difference (gr/lb)	37.0	-48.8
Outdoor:	Heating	Cooling		Infiltration:		
Drybulb (°F)	-1	85				
Daily range (°F)	-	33 (H)				
Wet bulb (°F)	-	55				
Wind speed (mph)	15.0	7.5				

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	0	0	0	0	0	0	0	0
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	0	0	0	0	0	0	0	0
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	0	0	0	0	0	0	0	0

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces North

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Loads for Multiple Orientations
Z2 (GARAGE)
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 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com

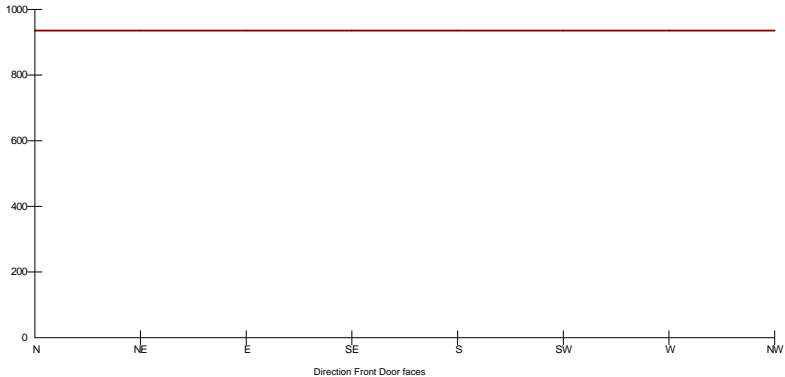


Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 71 30 37.0	Cooling 75 10 50 -48.8
Outdoor: Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating -1 - - 15.0	Cooling 85 33 (H) 55 7.5	Infiltration:	

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	935	935	935	935	935	935	935	935
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	935	935	935	935	935	935	935	935
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	57	58	60	60	58	56	59	59

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces North

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



Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:38:57



Loads for Multiple Orientations

Z3 (MASTER)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com

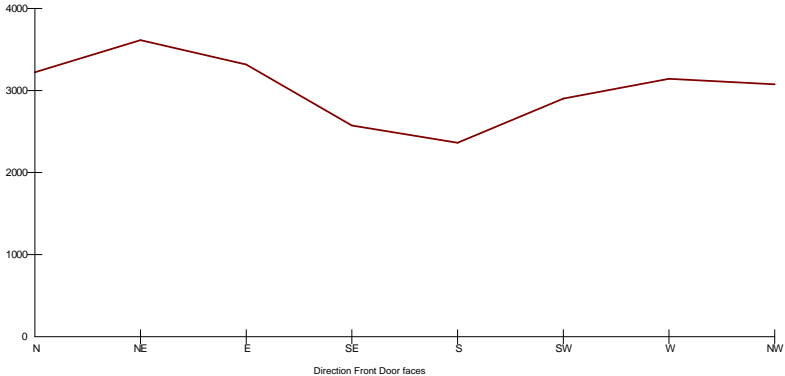


Design Conditions

Location:			Indoor:	Heating	Cooling
Steamboat Springs, CO, US			Indoor temperature (°F)	70	75
Elevation: 6879 ft			Design TD (°F)	71	10
Latitude: 41°N			Relative humidity (%)	30	50
			Moisture difference (gr/lb)	37.0	-48.8
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	-1	85			
Daily range (°F)	-	33 (H)			
Wet bulb (°F)	-	55			
Wind speed (mph)	15.0	7.5			

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	3222	3615	3317	2573	2364	2901	3142	3076
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	3222	3615	3317	2573	2364	2901	3142	3076
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	197	225	212	166	146	175	197	194

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces Northeast

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



Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:38:57



Loads for Multiple Orientations

Z4 (COMMONS)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com

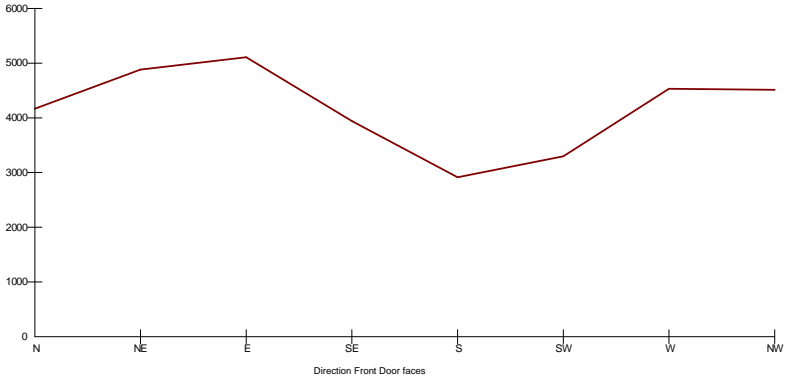


Design Conditions

Location:				Indoor:	Heating	Cooling
Steamboat Springs, CO, US				Indoor temperature (°F)	70	75
Elevation: 6879 ft				Design TD (°F)	71	10
Latitude: 41°N				Relative humidity (%)	30	50
				Moisture difference (gr/lb)	37.0	-48.8
Outdoor:	Heating	Cooling		Infiltration:		
Drybulb (°F)	-1	85				
Daily range (°F)	-	33 (H)				
Wet bulb (°F)	-	55				
Wind speed (mph)	15.0	7.5				

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	4167	4883	5107	3941	2913	3297	4531	4512
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	4167	4883	5107	3941	2913	3297	4531	4512
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	255	304	327	254	180	199	284	284

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces East

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



Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:38:57



Loads for Multiple Orientations

Z5 (COMMONS)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com

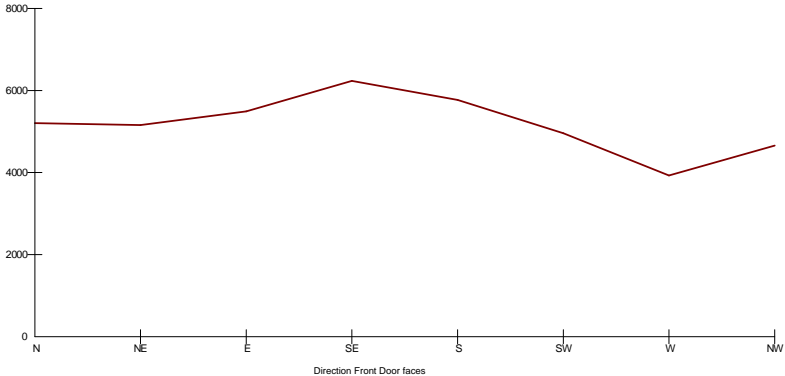


Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		37.0	-48.8
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	-1	85			
Daily range (°F)	-	33 (H)			
Wet bulb (°F)	-	55			
Wind speed (mph)	15.0	7.5			

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	5205	5158	5491	6235	5770	4960	3928	4657
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	5205	5158	5491	6235	5770	4960	3928	4657
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	319	322	351	402	356	299	246	293

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces Southeast

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



Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:38:57



Loads for Multiple Orientations

Z6 (BSMT L)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com

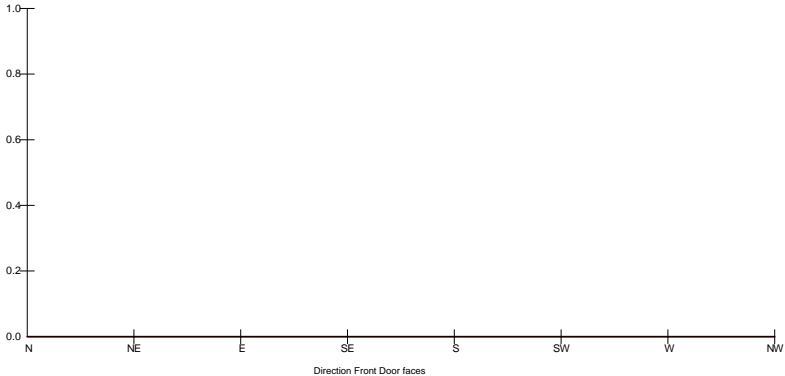


Design Conditions

Location:				Indoor:	Heating	Cooling
Steamboat Springs, CO, US				Indoor temperature (°F)	70	75
Elevation: 6879 ft				Design TD (°F)	71	10
Latitude: 41°N				Relative humidity (%)	30	50
				Moisture difference (gr/lb)	37.0	-48.8
Outdoor:	Heating	Cooling		Infiltration:		
Drybulb (°F)	-1	85				
Daily range (°F)	-	33 (H)				
Wet bulb (°F)	-	55				
Wind speed (mph)	15.0	7.5				

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	0	0	0	0	0	0	0	0
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	0	0	0	0	0	0	0	0
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	0	0	0	0	0	0	0	0

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces North

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



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2024-Oct-10 12:38:57



Loads for Multiple Orientations

Z7 (BSMNT M)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com

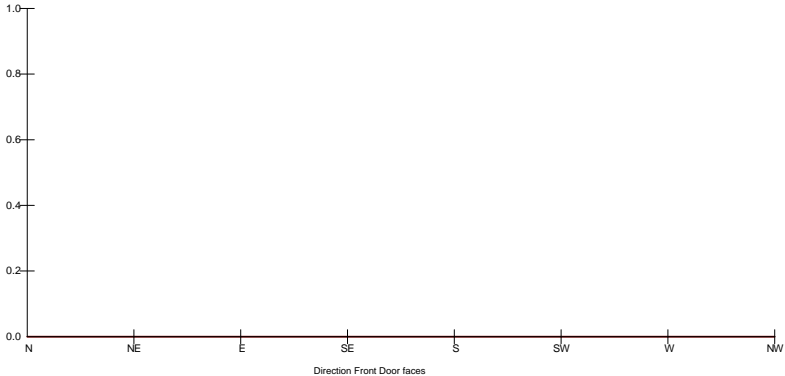


Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) 70 Design TD (°F) 71 Relative humidity (%) 30 Moisture difference (gr/lb) 37.0	Heating 70	Cooling 75
Outdoor: Drybulb (°F) -1 Daily range (°F) - Wet bulb (°F) - Wind speed (mph) 15.0	Heating -1	Cooling 85		
		33 (H)		
		55		
		7.5		
			Infiltration:	

	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	0	0	0	0	0	0	0	0
Latent Load (Btuh)	0	0	0	0	0	0	0	0
Total Load (Btuh)	0	0	0	0	0	0	0	0
Heating AVF (cfm)	0	0	0	0	0	0	0	0
Cooling AVF (cfm)	0	0	0	0	0	0	0	0

Building Orientation Cooling Load



Current Orientation: Front Door faces North
 Highest Cooling Load: Front Door faces North

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



Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:38:57



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Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

-1
 -
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

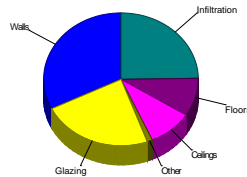
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

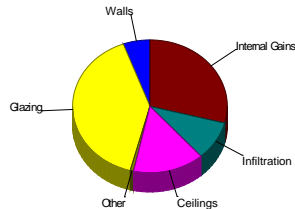
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.8	11833	32.3
Glazing	21.5	8516	23.2
Doors	21.4	412	1.1
Ceilings	1.3	3421	9.3
Floors	1.2	3401	9.3
Infiltration	4.4	9071	24.7
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		36655	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.2	694	5.6
Glazing	12.5	4972	40.3
Doors	4.5	86	0.7
Ceilings	0.7	1838	14.9
Floors	0	0	0
Infiltration	0.6	1167	9.4
Ducts		0	0
Ventilation		0	0
Internal gains		3590	29.1
Blower		0	0
Adjustments		0	0
Total		12346	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.045 Btuh/ft²·°F, Window / Floor Area = 9.4 %

Data entries checked.





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Project Information

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 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

-1
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

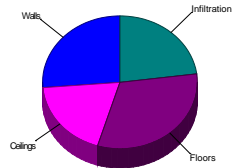
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

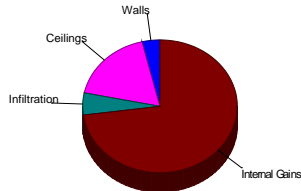
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	634	26.3
Glazing	0	0	0
Doors	0	0	0
Ceilings	1.3	459	19.0
Floors	2.1	765	31.7
Infiltration	4.2	554	23.0
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		2411	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.4	51	3.8
Glazing	0	0	0
Doors	0	0	0
Ceilings	0.7	247	18.0
Floors	0	0	0
Infiltration	0.6	74	5.4
Ducts		0	0
Ventilation		0	0
Internal gains		1000	72.9
Blower		0	0
Adjustments		0	0
Total		1372	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.031 Btuh/ft²·°F, Window / Floor Area = 0.0 %

WARNING: window to floor area ratio = 0.0% - less than 5%.





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Project Information

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 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

-1
 -
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

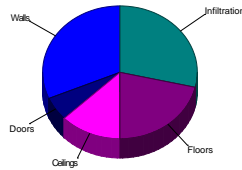
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

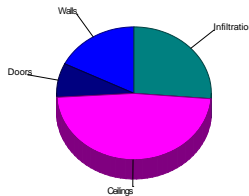
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	2266	31.4
Glazing	0	0	0
Doors	21.4	412	5.7
Ceilings	1.3	925	12.8
Floors	2.1	1542	21.4
Infiltration	4.2	2062	28.6
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		7209	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.4	184	17.7
Glazing	0	0	0
Doors	4.5	86	8.3
Ceilings	0.7	498	47.8
Floors	0	0	0
Infiltration	0.6	274	26.3
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		1042	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.037 Btuh/ft²·°F, Window / Floor Area = 0.0 %

WARNING: window to floor area ratio = 0.0% - less than 5%.





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Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

-1
 -
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

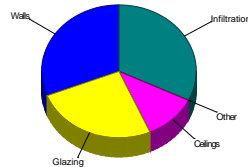
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

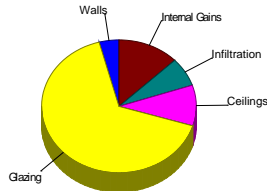
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	1830	31.0
Glazing	21.4	1512	25.6
Doors	0	0	0
Ceilings	1.3	660	11.2
Floors	2.1	4	0.1
Infiltration	4.2	1899	32.2
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		5905	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.4	149	4.1
Glazing	33.6	2372	66.1
Doors	0	0	0
Ceilings	0.7	355	9.9
Floors	0	0	0
Infiltration	0.6	252	7.0
Ducts		0	0
Ventilation		0	0
Internal gains		460	12.8
Blower		0	0
Adjustments		0	0
Total		3588	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.058 Btuh/ft²·°F, Window / Floor Area = 13.7 %

Data entries checked.





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Project Information

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 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Outdoor:

Drybulb (°F)
 Dailyrange (°F)
 Wetbulb (°F)
 Wind speed (mph)

Heating

-1
 -
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

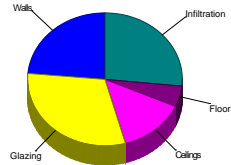
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

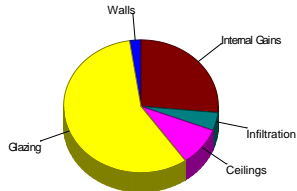
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	1360	23.6
Glazing	21.6	1769	30.7
Doors	0	0	0
Ceilings	1.3	808	14.0
Floors	2.1	292	5.1
Infiltration	4.2	1535	26.6
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		5764	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.4	110	2.4
Glazing	32.6	2661	57.4
Doors	0	0	0
Ceilings	0.7	435	9.4
Floors	0	0	0
Infiltration	0.6	204	4.4
Ducts		0	0
Ventilation		0	0
Internal gains		1230	26.5
Blower		0	0
Adjustments		0	0
Total		4640	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.053 Btuh/ft²·°F, Window / Floor Area = 13.0 %

Data entries checked.





Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

-1
 -
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

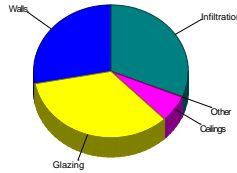
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

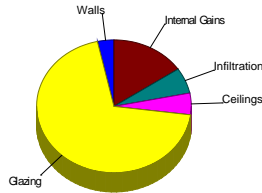
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.9	2451	28.0
Glazing	21.4	2993	34.2
Doors	0	0	0
Ceilings	1.3	565	6.5
Floors	2.1	11	0.1
Infiltration	4.2	2735	31.2
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		8755	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.4	199	3.4
Glazing	28.8	4031	69.5
Doors	0	0	0
Ceilings	0.7	304	5.2
Floors	0	0	0
Infiltration	0.6	363	6.3
Ducts		0	0
Ventilation		0	0
Internal gains		900	15.5
Blower		0	0
Adjustments		0	0
Total		5797	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.077 Btuh/ft²·°F, Window / Floor Area = 31.8 %

WARNING: window to floor area ratio = 31.8% - more than 25%.





Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Outdoor:

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

Heating

-1
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

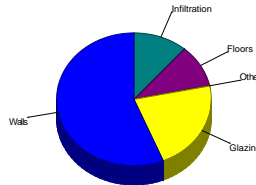
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.5	1416	56.2
Glazing	21.4	555	22.0
Doors	0	0	0
Ceilings	2.1	3	0.1
Floors	0.5	261	10.3
Infiltration	0	285	11.3
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		2520	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0	0	0
Glazing	0	0	0
Doors	0	0	0
Ceilings	0	0	0
Floors	0	0	0
Infiltration	0	0	0
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		0	0

Latent Cooling Load = 0 Btuh
 Overall U-value = 0.032 Btuh/ft²·°F, Window / Floor Area = 5.0 %

WARNING: window to floor area ratio = 5.0% - less than 5%.



Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

-1
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

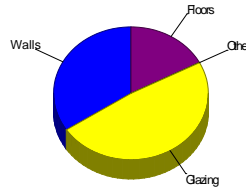
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.3	619	34.3
Glazing	21.4	875	48.4
Doors	0	0	0
Ceilings	2.1	0	0.0
Floors	0.5	313	17.3
Infiltration	0	0	0
Ducts		0	0
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		1807	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0	0	0
Glazing	0	0	0
Doors	0	0	0
Ceilings	0	0	0
Floors	0	0	0
Infiltration	0	0	0
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		0	0

Latent Cooling Load = 0 Btuh
 Overall U-value = 0.033 Btuh/ft²·°F, Window / Floor Area = 6.5 %

Data entries checked.



Building Analysis

Z8 (BSMNT R)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Outdoor:

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

Heating

-1
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

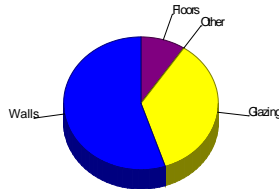
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 1 (Average)

Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.5	1258	55.1
Glazing	21.4	812	35.6
Doors	0	0	0
Ceilings	2.1	0	0.0
Floors	0.5	213	9.3
Infiltration	0	0	0
Ducts	0	0	0
Piping	0	0	0
Humidification	0	0	0
Ventilation	0	0	0
Adjustments	0	0	0
Total		2283	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0	0	0
Glazing	0	0	0
Doors	0	0	0
Ceilings	0	0	0
Floors	0	0	0
Infiltration	0	0	0
Ducts	0	0	0
Ventilation	0	0	0
Internal gains	0	0	0
Blower	0	0	0
Adjustments	0	0	0
Total		0	0

Latent Cooling Load = 0 Btuh
 Overall U-value = 0.037 Btuh/ft²·°F, Window / Floor Area = 8.9 %

Data entries checked.



wrightsoft

Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:38:59

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Component Constructions

Combined Loads

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)		
Drybulb (°F)	-1	85	37.0		
Daily range (°F)	-	33 (H)			
Wet bulb (°F)	-	55			
Wind speed (mph)	15.0	7.5			
			Infiltration:	Simplified	
			Method	Average	
			Construction quality	1 (Average)	
			Fireplaces		

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	Gain	
		ft²	Btu/h·ft²·°F	R²·°F/Btu/h	Btu/h/ft²	Btu/h	Btu/h/ft²	Btu/h
Walls								
15B19-0wc-10: Bg wall, heavy dry or light damp soil, 2"x4" wood int	n	408	0.037	19.0	2.64	1077	0	0
frm, concrete wall, r-19 cav ins, 10" thk, 1/2" gypsum board int fnsh	e	304	0.037	19.0	2.58	783	0	0
	s	321	0.037	19.0	2.04	656	0	0
	w	304	0.037	19.0	2.56	777	0	0
	all	1337	0.037	19.0	2.46	3293	0	0
IECC R-20 2x6 wall: R-20 2 x 6 wall	n	391	0.068	20.0	4.86	1896	0.39	154
	e	701	0.068	20.0	4.86	3405	0.39	277
	s	275	0.068	20.0	4.86	1335	0.39	108
	w	392	0.068	20.0	4.86	1904	0.39	155
	all	1759	0.068	20.0	4.86	8540	0.39	694

Partitions

(none)

Windows

IECC U32 operable: U32 Operable window; NFRC rated (SHGC=0.32);	n	12	0.320	0	22.8	282	7.42	92
50% blinds 45°, medium; 50% indoor insect screen; 6.67 ft head ht								
U30 Operable: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr,	n	22	0.300	0	21.4	462	6.96	150
1/4" gap, 1/4" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium;	e	9	0.300	0	21.4	187	0	0
50% indoor insect screen; 6.67 ft head ht	e	75	0.300	0	21.4	1607	26.2	1965
	s	44	0.300	0	21.4	937	0	0
	s	113	0.300	0	21.4	2412	12.6	1422
	w	11	0.300	0	21.4	243	0	0
	w	27	0.300	0	21.4	587	26.2	718
	all	300	0.300	0	21.4	6435	14.2	4256
U30 SGD: 2 glazing, clr outr, argon gas, vnl frm mat, clr low-e innr, 1/4"	s	41	0.300	0	21.4	875	0	0
gap, 1/8" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium; 50%	s	43	0.300	0	21.4	925	12.6	545
indoor insect screen; 6.67 ft head ht	all	84	0.300	0	21.4	1799	6.49	545

Doors

U30 Wood Door: Door, wd sc type	e	19	0.300	0	21.4	412	4.47	86
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Ceilings

R38 Floor Ceiling: Flat ceiling, tar and gravel roof mat, frm deck, 1/2" gypsum board int fnsh, 6" thkns, r-38 ceil ins	2	0.029	38.0	2.07	3	0	0
R60 Ceiling: Attic ceiling, asphalt shingles roof mat, r-56 ceil ins, 1/2" gypsum board int fnsh	2659	0.018	60.0	1.29	3418	0.69	1838

Floors

20P-38w: Flr floor, frm flr, 10" thkns, hrd wd flr fnsh, r-38 cav ins, gar ovr	1220	0.030	38.0	2.14	2614	0	0
IECC slab on grade floor with R-10: Bg floor, heavy dry or light damp soil, prm ext ins cov, 10' depth, r-10 ins, hrd wd flr fnsh	1575	0.014	10.0	0.50	787	0	0



Component Constructions
Z1 (Owner Entry)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)		
Drybulb (°F)	-1	85	37.0		
Daily range (°F)	-	33 (H)			
Wet bulb (°F)	-	55	Infiltration:	Simplified	
Wind speed (mph)	15.0	7.5	Method	Average	
			Construction quality	1 (Average)	
			Fireplaces		

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								
IECC R-20 2x6 wall: R-20 2 x 6 wall								
	e	108	0.068	20.0	4.86	524	0.39	43
	s	23	0.068	20.0	4.86	109	0.39	9
	all	131	0.068	20.0	4.86	634	0.39	51
Partitions (none)								
Windows (none)								
Doors (none)								
Ceilings								
R60 Ceiling: Attic ceiling, asphalt shingles roof mat, r-56 ceil ins, 1/2" gypsum board int fnsh								
		357	0.018	60.0	1.29	459	0.69	247
Floors								
20P-38w: Flr floor, frm flr, 10" thkns, hrd wd flr fnsh, r-38 cav ins, gar ovr								
		357	0.030	38.0	2.14	765	0	0



Component Constructions
Z8 (BSMNT R)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) 70 Design TD (°F) 71 Relative humidity (%) 30 Moisture difference (gr/lb) 37.0		Heating 70	Cooling 75
Outdoor: Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating -1 - - 15.0	Cooling 85 33 (H) 55 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 1 (Average)	

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								
15B19-0wc-10: Bg wall, heavy dry or light damp soil, 2"x4" wood int	n	104	0.037	19.0	2.64	275	0	0
frm, concrete wall, r-19 cav ins, 10" thk, 1/2" gypsum board int fnsh	e	304	0.037	19.0	2.58	783	0	0
	s	101	0.037	19.0	1.98	199	0	0
	all	509	0.037	19.0	2.47	1258	0	0
Partitions (none)								
Windows								
U30 Operable: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr,	e	9	0.300	0	21.4	187	0	0
1/4" gap, 1/4" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium;	s	29	0.300	0	21.4	625	0	0
50% indoor insect screen; 6.67 ft head ht	all	38	0.300	0	21.4	812	0	0
Doors (none)								
Ceilings								
R38 Floor Ceiling: Flat ceiling, tar and gravel roof mat, frm deck, 1/2"		0	0.029	38.0	2.07	0	0	0
gypsum board int fnsh, 6" thkns, r-38 cell ins								
Floors								
IECC slab on grade floor with R-10: Bg floor, heavy dry or light damp		427	0.014	10.0	0.50	213	0	0
soil, prm ext ins cov, 10' depth, r-10 ins, hrd wd flr fnsh								



Component Constructions
Z2 (GARAGE)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 71 30 37.0	Cooling 75 10 50 -48.8
Outdoor: Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating -1 - - 15.0	Cooling 85 33 (H) 55 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 1 (Average)

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	Btu/h
Walls							
IECC R-20 2x6 wall: R-20 2 x 6 wall							
	n	216	0.068	20.0	4.86	1049 0.39	85
	e	251	0.068	20.0	4.86	1217 0.39	99
	all	467	0.068	20.0	4.86	2266 0.39	184
Partitions (none)							
Windows (none)							
Doors							
U30 Wood Door: Door, wd sc type							
	e	19	0.300	0	21.4	412 4.47	86
Ceilings							
R60 Ceiling: Attic ceiling, asphalt shingles roof mat, r-56 ceil ins, 1/2" gypsum board int fnsh							
		720	0.018	60.0	1.29	925 0.69	498
Floors							
20P-38w: Flr floor, frm flr, 10" thkns, hrd wd flr fnsh, r-38 cav ins, gar ovr							
		720	0.030	38.0	2.14	1542 0	0



Component Constructions
Z3 (MASTER)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		37.0	-48.8
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	-1	85	Method	Simplified	
Daily range (°F)	-	33 (H)	Construction quality	Average	
Wet bulb (°F)	-	55	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	Btuh
Walls								
IECC R-20 2x6 wall: R-20 2 x 6 wall								
	s	89	0.068	20.0	4.86	432	0.39	35
	w	288	0.068	20.0	4.86	1398	0.39	114
	all	377	0.068	20.0	4.86	1830	0.39	149
Partitions								
(none)								
Windows								
U30 Operable: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr,								
	s	43	0.300	0	21.4	925	12.6	545
1/4" gap, 1/4" thk; NFRC rate d (SHGC=0.30); 50% blinds 45°, medium;								
	w	27	0.300	0	21.4	587	26.2	718
50% indoor insect screen; 6.67 ft head ht								
	all	71	0.300	0	21.4	1512	17.9	1264
Doors								
(none)								
Ceilings								
R60 Ceiling: Attic ceiling, asphalt shingles roof mat, r-56 ceil ins, 1/2" gypsum board int fnsh								
		514	0.018	60.0	1.29	660	0.69	355
Floors								
20P-38w: Flr floor, frm flr, 10" thkns, hrd wd flr fnsh, r-38 cav ins, gar								
		2	0.030	38.0	2.14	4	0	0
ovr								



Component Constructions
Z4 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location: Steamboat Springs, CO, US Elevation: 6879 ft Latitude: 41°N		Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 71 30 37.0	Cooling 75 10 50 -48.8
Outdoor: Drybulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating -1 - - 15.0	Cooling 85 33 (H) 55 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 1 (Average)

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²-F	Ins ul R ft²-F/Btuh	Htg HTM Btuh/ft²	Loss Clg Btuh	HTM Btuh/ft²	Gain Btuh
Walls IECC R-20 2x6 wall: R-20 2 x 6 wall	n	83	0.068	20.0	4.86	401	0.39	33
	e	104	0.068	20.0	4.86	506	0.39	41
	s	93	0.068	20.0	4.86	453	0.39	37
	all	280	0.068	20.0	4.86	1360	0.39	110

Partitions
(none)

Windows

IECC U32 operable: U32 Operable window; NFRC rated (SHGC=0.32); 50% blinds 45°, medium; 50% indoor insect screen; 6.67 ft head ht	n	12	0.320	0	22.8	282	7.42	92
U30 Operable: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr inner, 1/4" gap, 1/4" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium; 50% indoor insect screen; 6.67 ft head ht	s	69	0.300	0	21.4	1487	12.6	877

Doors
(none)

Ceilings

R60 Ceiling: Attic ceiling, asphalt shingles roof mat, r-56 cell ins, 1/2" gypsum board int fnsh		629	0.018	60.0	1.29	808	0.69	435
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Floors

20P-38w: Flr floor, frm flr, 10" thkns, hrd wd flr fnsh, r-38 cav ins, gar ovr		136	0.030	38.0	2.14	292	0	0
--	--	-----	-------	------	------	-----	---	---



Component Constructions
Z5 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)		
Drybulb (°F)	-1	85	37.0		
Daily range (°F)	-	33 (H)			
Wet bulb (°F)	-	55	Infiltration:	Simplified	
Wind speed (mph)	15.0	7.5	Method	Average	
			Construction quality	1 (Average)	
			Fireplaces		

Construction descriptions

Walls

IECC R-20 2x6 wall: R-20 2 x 6 wall

Or	Area ft²	U-value Btuh/ft²-F	Ins ul R ft²-F/Btuh	Htg HTM Btuh/ft²	Loss Clg HTM Btuh	HTM Btuh/ft²	Gain Btuh
n	92	0.068	20.0	4.86	446	0.39	36
e	238	0.068	20.0	4.86	1157	0.39	94
s	70	0.068	20.0	4.86	342	0.39	28
w	104	0.068	20.0	4.86	506	0.39	41
all	505	0.068	20.0	4.86	2451	0.39	199

Partitions

(none)

Windows

U30 Operable: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr, n
 1/4" gap, 1/4" thk; NFRC rate d (SHGC=0.30); 50% blinds 45°, medium; e
 50% indoor insect screen; 6.67 ft head ht all
 U30 SGD: 2 glazing, clr outr, argon gas, vnl frm mat, clr low-e innr, 1/4" s
 gap, 1/8" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium; 50%
 indoor insect screen; 6.67 ft head ht

n	22	0.300	0	21.4	462	6.96	150
e	75	0.300	0	21.4	1607	26.2	1965
all	97	0.300	0	21.4	2069	21.9	2116
s	43	0.300	0	21.4	925	12.6	545

Doors

(none)

Ceilings

R60 Ceiling: Attic ceiling, asphalt shingles roof mat, r-56 ceil ins, 1/2"
 gypsum board int fnsh

	440	0.018	60.0	1.29	565	0.69	304
--	-----	-------	------	------	-----	------	-----

Floors

20P-38w: Flr frr, frm flr, 10" thkns, hrd wd flr fnsh, r-38 cav ins, gar
 ovr

	5	0.030	38.0	2.14	11	0	0
--	---	-------	------	------	----	---	---



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		37.0	-48.8
Outdoor:	Heating	Cooling	Infiltration:		
Drybulb (°F)	-1	85	Method	Simplified	
Daily range (°F)	-	33 (H)	Construction quality	Average	
Wet bulb (°F)	-	55	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							
15B19-0wc-10: Bg wall, heavy dry or light damp soil, 2"x4" wood int	n	134	0.037	19.0	2.64	355	0
frm, concrete wall, r-19 cav ins, 10" thk, 1/2" gypsum board int fnsh	s	120	0.037	19.0	2.36	284	0
	w	304	0.037	19.0	2.56	777	0
	all	559	0.037	19.0	2.54	1416	0
Partitions							
(none)							
Windows							
U30 Operable: 2 glazing, clr low-e outr, argon gas, vnl frm mat, clr innr,	s	15	0.300	0	21.4	312	0
1/4" gap, 1/4" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium;	w	11	0.300	0	21.4	243	0
50% indoor insect screen; 6.67 ft head ht	all	26	0.300	0	21.4	555	0
Doors							
(none)							
Ceilings							
R38 Floor Ceiling: Flat ceiling, tar and gravel roof mat, frm deck, 1/2"		1	0.029	38.0	2.07	3	0
gypsum board int fnsh, 6" thkns, r-38 cell ins							
Floors							
IECC slab on grade floor with R-10: Bg floor, heavy dry or light damp		521	0.014	10.0	0.50	261	0
soil, prm ext ins cov, 10' depth, r-10 ins, hrd wd flr fnsh							



Component Constructions
Z7 (BSMNT M)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0	-48.8
Drybulb (°F)	-1	85	Infiltration:		
Daily range (°F)	-	33 (H)	Method	Simplified	
Wet bulb (°F)	-	55	Construction quality	Average	
Wind speed (mph)	15.0	7.5	Fireplaces	1 (Average)	

Construction descriptions

	Or	Area	U-value	Ins ul R	Htg HTM	Loss Clg HTM	Gain	
		ft²	Btuh/ft²-F	ft²-F/Btuh	Btuh/ft²	Btuh	Btuh/ft²	Btuh
Walls								
15B19-0wc-10: Bg wall, heavy dry or light damp soil, 2"x4" wood int	n	169	0.037	19.0	2.64	447	0	0
frm, concrete wall, r-19 cav ins, 10" thk, 1/2" gypsum board int fnsh	s	101	0.037	19.0	1.71	172	0	0
	all	270	0.037	19.0	2.30	619	0	0

Partitions
(none)

Windows

U30 SGD: 2 glazing, clr outr, argon gas, vnl frm mat, clr low-e inner, 1/4" s	41	0.300	0	21.4	875	0	0	0
gap, 1/8" thk; NFRC rated (SHGC=0.30); 50% blinds 45°, medium; 50% indoor insect screen; 6.67 ft head ht								

Doors
(none)

Ceilings

R38 Floor Ceiling: Flat ceiling, tar and gravel roof mat, frm deck, 1/2" gypsum board int fnsh, 6" thkns, r-38 ceil ins	0	0.029	38.0	2.07	0	0	0	0
---	---	-------	------	------	---	---	---	---

Floors

IECC slab on grade floor with R-10: Bg floor, heavy dry or light damp soil, prm ext ins cov, 10' depth, r-10 ins, hrd wd flr fnsh	627	0.014	10.0	0.50	313	0	0	0
---	-----	-------	------	------	-----	---	---	---



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method MJ8

Heating Summary

Structure 36655 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 36655 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft²)	4234	2659
Volume (ft³)	24738	23934
Air changes/hour	0.35	0.35
Equip. AVF (cfm)	144	140

Heating Equipment Summary

Make Triangle Tube
 Trade TRIANGLE TUBE
 Model INSTINCT SOLO 110
 AHRI ref 204469772

Efficiency 95 AFUE
 Heating input 11 0000 Btuh
 Heating output 102000 Btuh
 Temperature rise 0 °F
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 12346 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
 Rate/s wing multiplier 0.90
 Equipment sensible load 11087 Btuh

Latent Cooling Equipment Load Sizing

Structure -2995 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 11087 Btuh
 Req. total capacity at 0.85 SHR 1.1 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 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 724 cfm
 Air flow factor 0.055 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 1.00

Bold/italic values have been manually overridden

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





Project Summary
Z1 (Owner Entry)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 2411 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 2411 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	357	357
Volume (ft ³)	3214	3214
Air changes/hour	0.17	0.16
Equip. AVF (cfm)	9	9

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 1372 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
 Rate/s wing multiplier 0.90
 Equipment sensible load 1232 Btuh

Latent Cooling Equipment Load Sizing

Structure -227 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 1232 Btuh
 Req. total capacity at 0.85 SHR 0.1 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 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

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



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2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door Faces: N

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Project Summary
Z2 (GARAGE)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 7209 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 7209 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft²)	720	720
Volume (ft³)	6480	6480
Air changes/hour	0.31	0.30
Equip. AVF (cfm)	34	33

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 1042 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
 Rate/swing multiplier 0.90
 Equipment sensible load 935 Btuh

Latent Cooling Equipment Load Sizing

Structure -844 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 935 Btuh
 Req. total capacity at 0.85 SHR 0.1 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 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

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



Right-Suite® Universal 2024.24.0.02 RSU24246

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... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door Faces: N

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Project Summary

Z3 (MASTER)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 5905 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 5905 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	514	514
Volume (ft ³)	4622	4622
Air changes/hour	0.40	0.39
Equip. AVF (cfm)	31	30

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 3588 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
 Rate/s wing multiplier 0.90
 Equipment sensible load 3222 Btuh

Latent Cooling Equipment Load Sizing

Structure -377 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 3222 Btuh
 Req. total capacity at 0.85 SHR 0.3 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 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

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



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2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door Faces: N

Page 4



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 5764 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 5764 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	629	629
Volume (ft ³)	5660	5660
Air changes/hour	0.27	0.26
Equip. AVF (cfm)	25	24

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 4640 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
 Rate/s wing multiplier 0.90
 Equipment sensible load 4167 Btuh

Latent Cooling Equipment Load Sizing

Structure -428 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 4167 Btuh
 Req. total capacity at 0.85 SHR 0.4 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 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

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





Project Summary
Z5 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 8755 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 8755 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	440	440
Volume (ft ³)	3958	3958
Air changes/hour	0.68	0.66
Equip. AVF (cfm)	45	43

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 5797 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data n
 Rate/swing multiplier 0.90
 Equipment sensible load 5205 Btuh

Latent Cooling Equipment Load Sizing

Structure -1119 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 5205 Btuh
 Req. total capacity at 0.85 SHR 0.5 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 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

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



Right-Suite® Universal 2024.24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door Faces: N

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Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 2520 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 2520 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	521	0
Volume (ft ³)	804	0
Air changes/hour	0.35	0.35
Equip. AVF (cfm)	5	0

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

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

Blower 0 Btuh

Use manufacturer's data n
 Rate/s wing multiplier 0.90
 Equipment sensible load 0 Btuh

Latent Cooling Equipment Load Sizing

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

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 0 Btuh
 Req. total capacity at 0.85 SHR 0 ton

Cooling Equipment Summary

Make n/a
 Trade n/a
 Cond n/a
 Coil n/a
 AHRI ref n/a

Efficiency n/a
 Sensible cooling 0 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

Bold/italic values have been manually overridden

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





Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db -1 °F
 Inside db 70 °F
 Design TD 71 °F

Ventilation Method

Heating Summary

Structure 1807 Btuh
 Ducts 0 Btuh
 Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 1807 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft²)	627	0
Volume (ft³)	0	0
Air changes/hour	0.35	0.35
Equip. AVF (cfm)	0	0

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db 85 °F
 Inside db 75 °F
 Design TD 10 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -49 gr/lb

Sensible Cooling Equipment Load Sizing

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

Blower 0 Btuh

Use manufacturer's data n
 Rate/s wing multiplier 0.90
 Equipment sensible load 0 Btuh

Latent Cooling Equipment Load Sizing

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

Equipment latent load 0 Btuh

Equipment Total Load (Sen+Lat) 0 Btuh
 Req. total capacity at 0.85 SHR 0 ton

Cooling Equipment Summary

Make n/a
 Trade n/a
 Cond n/a
 Coil n/a
 AHRI ref n/a

Efficiency n/a
 Sensible cooling 0 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

Bold/italic values have been manually overridden

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





Project Summary

Z8 (BSMNT R)

All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Mchael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO

Notes: Email: michael@chiartanoeg.com
 200 Sundance Ct. Unit B
 #2509



Design Information

Weather: Steamboat Springs, CO, US

Winter Design Conditions

Outside db	-1 °F
Inside db	70 °F
Design TD	71 °F

Ventilation Method

Heating Summary

Structure	2283 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	2283 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft ²)	427	0
Volume (ft ³)	0	0
Air changes/hour	0.35	0.35
Equip. AVF (cfm)	0	0

Heating Equipment Summary

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

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

Summer Design Conditions

Outside db	85 °F
Inside db	75 °F
Design TD	10 °F
Daily range	H
Relative humidity	50 %
Moisture difference	-49 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	0 Btuh
Ducts	0 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/s wing multiplier	0.90
Equipment sensible load	0 Btuh

Latent Cooling Equipment Load Sizing

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

Equipment Total Load (Sen+Lat)	0 Btuh
Req. total capacity at 0.85 SHR	0 ton

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
AHRI ref	n/a
Efficiency	n/a
Sensible cooling	0 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

Bold/italic values have been manually overridden

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



Right-Suite® Universal 2024.24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door Faces: N

Page 9



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO

Email: michael@chiartanoeg.com



Design Conditions

Location:

Steamboat Springs, CO, US
 Elevation: 6879 ft
 Latitude: 41°N

Indoor:

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

Heating

70
 71
 30
 37.0

Cooling

75
 10
 50
 -48.8

Outdoor:

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

Heating

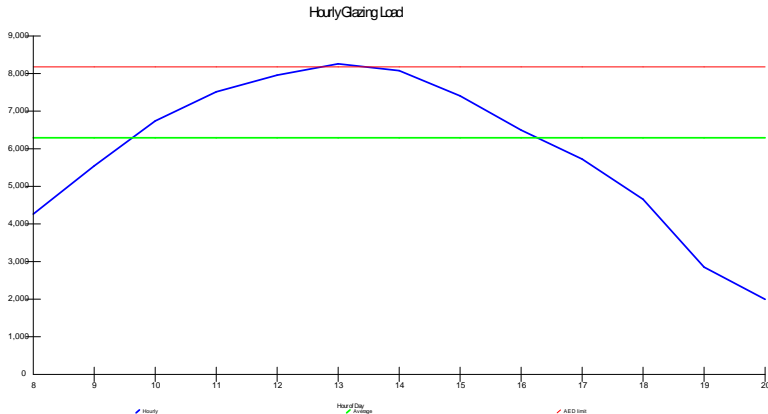
-1
 -
 -
 15.0

Cooling

85
 33 (H)
 55
 7.5

Infiltration:

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 31.3%

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

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



AED Assessment
Z1 (Owner Entry)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

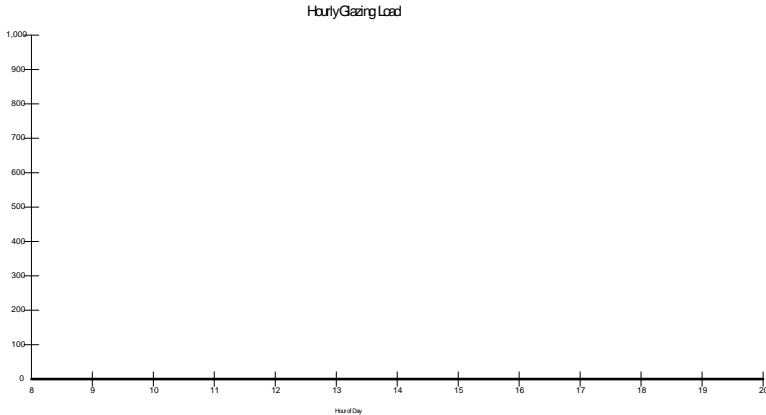
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0
Dry bulb (°F)	-1	85		-48.8
Daily range (°F)	-	33 (H)	Infiltration:	
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 0.0%
Zone has adequate exposure diversity (AED), based on AED limit of 30%
AED excursion: 0 Btu/h



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

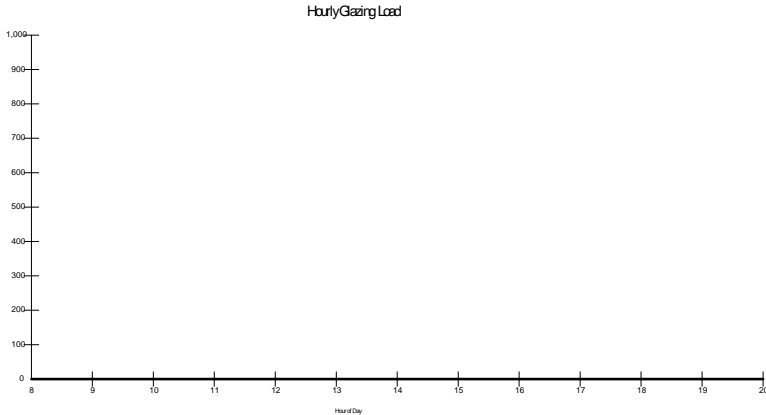
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:		Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)		70	75
Elevation: 6879 ft		Design TD (°F)		71	10
Latitude: 41°N		Relative humidity (%)		30	50
		Moisture difference (gr/lb)		37.0	-48.8
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	-1	85			
Daily range (°F)	-	33 (H)			
Wet bulb (°F)	-	55			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 0.0%
Zone has adequate exposure diversity (AED), based on AED limit of 30%
AED excursion: 0 Btu/h



Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

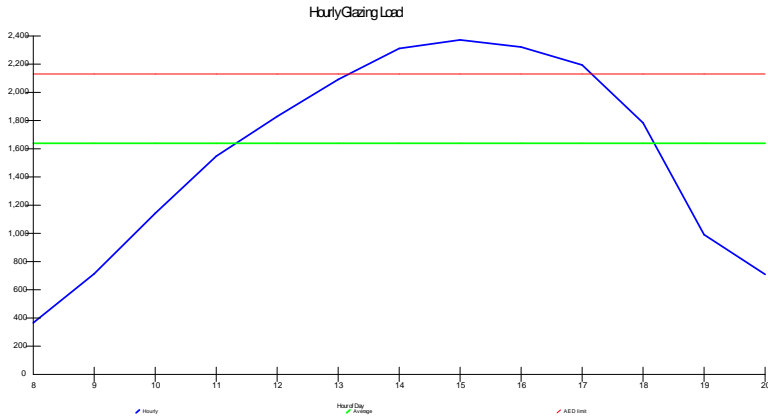
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0
Dry bulb (°F)	-1	85		-48.8
Daily range (°F)	-	33 (H)	Infiltration:	
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 44.8%

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

AED excursion: 1108 Btu/h (PFG - ALP)



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Project Information

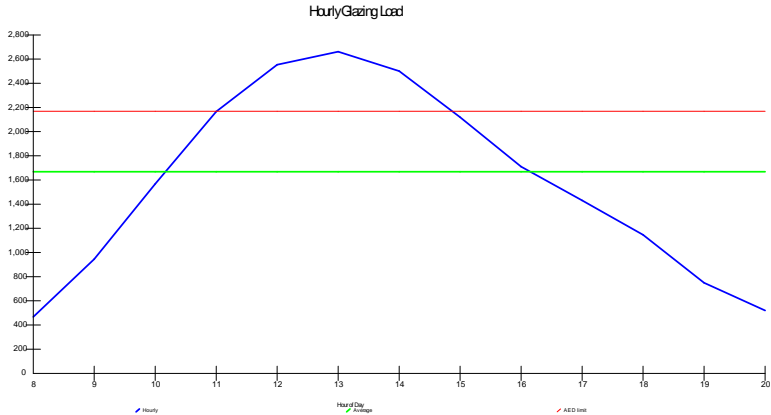
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
		Moisture difference (gr/lb)	37.0	-48.8
Outdoor:	Heating	Cooling		
Dry bulb (°F)	-1	85		
Daily range (°F)	-	33 (H)		
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		
		Infiltration:		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 59.6%

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

AED excursion: 1693 Btu/h (PFG - ALP)



Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

Project Information

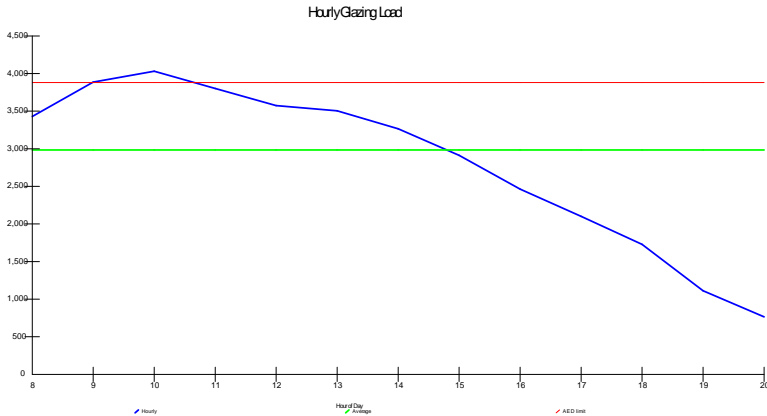
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0
Dry bulb (°F)	-1	85		-48.8
Daily range (°F)	-	33 (H)	Infiltration:	
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 35.1%
Zone does not have adequate exposure diversity (AED), based on AED limit of 30%.
AED excursion: 1370 Btu/h (PFG - ALP)



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

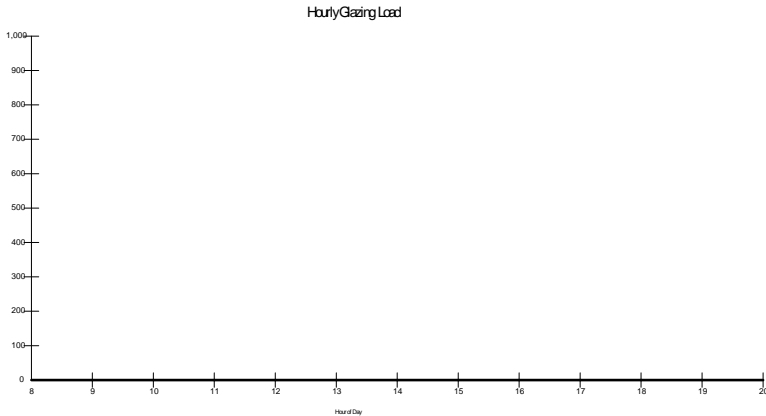
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0
Dry bulb (°F)	-1	85		-48.8
Daily range (°F)	-	33 (H)	Infiltration:	
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 0.0%

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

AED excursion: 0 Btu/h



AED Assessment
Z7 (BSMNT M)
All Climate Design Company

Job: 200 Sundance Ct. Unit B ...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B ...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

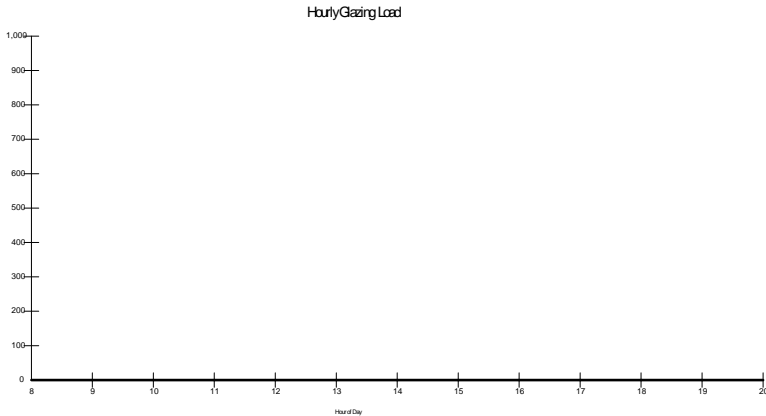
For: Michael Chiartano, Chiartano Engineering
 10186 M. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0
Dry bulb (°F)	-1	85		-48.8
Daily range (°F)	-	33 (H)	Infiltration:	
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 0.0%
Zone has adequate exposure diversity (AED), based on AED limit of 30%
AED excursion: 0 Btu/h



Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

Project Information

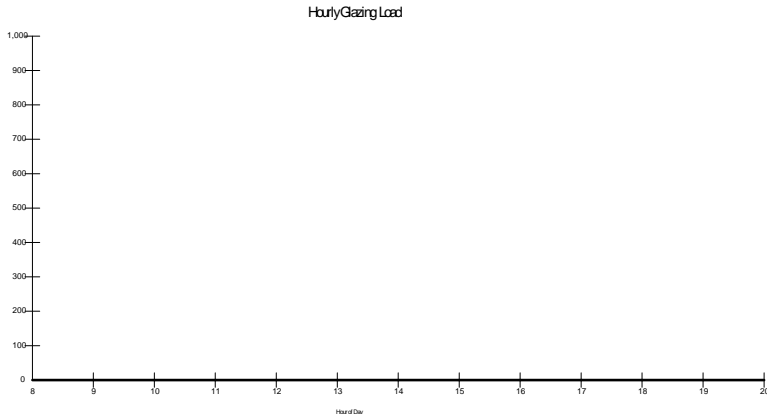
For: Michael Chiartano, Chiartano Engineering
 10186 Mt. Lincoln Dr., Colorado Springs, CO
 Email: michael@chiartanoeg.com



Design Conditions

Location:		Indoor:	Heating	Cooling
Steamboat Springs, CO, US		Indoor temperature (°F)	70	75
Elevation: 6879 ft		Design TD (°F)	71	10
Latitude: 41°N		Relative humidity (%)	30	50
Outdoor:	Heating	Cooling	Moisture difference (gr/lb)	37.0
Dry bulb (°F)	-1	85		-48.8
Daily range (°F)	-	33 (H)	Infiltration:	
Wet bulb (°F)	-	55		
Wind speed (mph)	15.0	7.5		

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 0.0%

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

AED excursion: 0 Btu/h



Right-J® Worksheet Combined Loads

All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name		Combined Loads						Z1 (Owner Entry)					
2 Exposed wall		9.0 ft						9.0 ft					
3 Room height		389.5 ft						14.5 ft					
4 Room dimensions		4234.1 ft²						357.2 ft²					
5 Room area													
Ty	Construction number	U-v value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	2.64	0.00	408	408	1077	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	n	4.86	0.39	424	391	1896	154	0	0	0	0
	W IECC U32 operable	0.320	n	22.85	7.42	12	0	282	92	0	0	0	0
	G U30 Operable	0.300	n	21.42	6.96	22	0	462	150	0	0	0	0
11	W 15B19-0wc-10	0.069	e	2.58	0.00	313	304	783	0	0	0	0	0
	G U30 Operable	0.300	e	21.42	0.00	9	0	187	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	4.86	0.39	795	701	3405	277	108	108	524	43
	W U30 Operable	0.300	e	21.42	26.21	75	0	1607	1965	0	0	0	0
	D U30 Wood Door	0.300	e	21.42	4.47	19	19	412	86	0	0	0	0
	W 15B19-0wc-10	0.069	s	2.04	0.00	406	321	656	0	0	0	0	0
	G U30 Operable	0.300	s	21.42	0.00	44	0	957	0	0	0	0	0
	G U30 SGD	0.300	s	21.42	0.00	41	0	875	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	4.86	0.39	431	275	1335	108	23	23	109	9
	G U30 Operable	0.300	s	21.42	12.63	113	0	2412	1422	0	0	0	0
	G U30 SGD	0.300	s	21.42	12.63	43	0	925	545	0	0	0	0
	W 15B19-0wc-10	0.069	w	2.56	0.00	315	304	777	0	0	0	0	0
	G U30 Operable	0.300	w	21.42	0.00	11	0	243	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	4.86	0.39	420	392	1904	155	0	0	0	0
	G U30 Operable	0.300	w	21.42	26.21	27	0	587	718	0	0	0	0
	C R38 Floor Ceiling	0.029	-	2.07	0.00	2	2	3	0	0	0	0	0
	C R60 Ceiling	0.018	-	1.29	0.69	2659	2659	3418	1838	357	357	459	247
	F 20P-36w	0.030	-	2.14	0.00	1220	1220	2614	0	357	357	785	0
	F IECC slab on grade f	0.014	-	0.50	0.00	1575	1575	787	0	0	0	0	0
6	c) AED excursion								79				0
	Envelope loss/gain							27584	7589			1858	298
12	a) Infiltration							907.1	116.7			554	74
	b) Room ventilation							0	0			0	0
13	Internal gains:	Occupants @		230		5		690	0			0	0
		Appliances/other						2900				1000	
	Subtotal (lines 6 to 13)							36655	12346			2411	1372
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							36655	12346			2411	1372
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							36655	12346			2411	1372
	Air required (cfm)							0	724			0	76

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

2024-Oct-10 12:39:00

Page 1



Right-J® Worksheet
Combined Loads
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

						Z2 (GARAGE)				Z3 (MASTER)					
1	Room name					9.0 ft				9.0 ft					
2	Exposed wall					54.0 ft				49.6 ft					
3	Room height														
4	Room dimensions														
5	Room area					720.0 ft²				513.6 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	15B19-0wc-10	0.069	n	2.64	0.00	0	0	0	0	0	0	0	0	
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	216	216	1049	85	0	0	0	0	
	W	IECC U32 operable	0.320	n	22.85	7.42	0	0	0	0	0	0	0	0	
	G	U30 Operable	0.300	n	21.42	6.96	0	0	0	0	0	0	0	0	
11	W	15B19-0wc-10	0.069	e	2.58	0.00	0	0	0	0	0	0	0	0	
	G	U30 Operable	0.300	e	21.42	0.00	0	0	0	0	0	0	0	0	
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	270	251	1217	99	0	0	0	0	
	W	U30 Operable	0.300	e	21.42	26.21	0	0	0	0	0	0	0	0	
	D	U30 Wood Door	0.300	e	21.42	4.47	19	19	412	86	0	0	0	0	
	W	15B19-0wc-10	0.069	s	2.04	0.00	0	0	0	0	0	0	0	0	
	G	U30 Operable	0.300	s	21.42	0.00	0	0	0	0	0	0	0	0	
	G	U30 SGD	0.300	s	21.42	0.00	0	0	0	0	0	0	0	0	
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0	132	89	432	35	
	G	U30 Operable	0.300	s	21.42	12.63	0	0	0	0	43	0	925	545	
	G	U30 SGD	0.300	s	21.42	12.63	0	0	0	0	0	0	0	0	
	W	15B19-0wc-10	0.069	w	2.56	0.00	0	0	0	0	0	0	0	0	
	G	U30 Operable	0.300	w	21.42	0.00	0	0	0	0	0	0	0	0	
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	0	0	0	0	315	288	1398	114	
	G	U30 Operable	0.300	w	21.42	26.21	0	0	0	0	27	0	587	718	
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0	0	0	0	0	
	C	R60 Ceiling	0.018	-	1.29	0.69	720	720	925	498	514	514	660	355	
	F	20P-36w	0.030	-	2.14	0.00	720	720	1542	0	2	2	4	0	
	F	IECC slab on grade f	0.014	-	0.50	0.00	0	0	0	0	0	0	0	0	
6	c) AED excursion										1108				
	Env elope loss/gain										2876				
12	a) Infiltration						2062				274				
	b) Room ventilation						0				0				
13	Internal gains:		Occupants @ Appliances/other		230	0				0		2		460	
	Subtotal (lines 6 to 13)						7209				1042				
	Less external load						0				0				
	Less transfer						0				0				
	Redistribution						0				0				
14	Subtotal						7209				1042				
15	Duct loads						0%		0%		0%		0%		
	Total room load						7209				1042				
	Air required (cfm)						0				57				

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



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Right-Suite® Universal 2024.24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Combined Loads
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1		Room name		Z4 (COMMONS)				Z5 (COMMONS)						
2		Exposed wall		9.0 ft				9.0 ft						
3		Room height		40.1 ft				71.5 ft						
4		Room dimensions		628.8 ft²				439.8 ft²						
5		Room area												
6	Ty	Construction number	U-v value (Btu/h/ft²·°F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	15B19-0wc-10	0.069	n	2.64	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	95	83	401	33	114	92	446	36
	G	IECC U32 operable	0.320	n	22.85	7.42	12	0	282	92	0	0	0	0
	G	U30 Operable	0.300	n	21.42	6.96	0	0	0	0	22	0	462	150
11	W	15B19-0wc-10	0.069	e	2.58	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	21.42	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	104	104	506	41	313	238	1157	94
	G	U30 Operable	0.300	e	21.42	26.21	0	0	0	0	75	0	1607	1965
	D	U30 Wood Door	0.300	e	21.42	4.47	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	2.04	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	21.42	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	21.42	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	163	93	453	37	114	70	342	28
	G	U30 Operable	0.300	s	21.42	12.63	69	0	1487	877	0	0	0	0
	G	U30 SGD	0.300	s	21.42	12.63	0	0	0	0	43	0	925	545
	W	15B19-0wc-10	0.069	w	2.56	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	21.42	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	0	0	0	0	104	104	536	41
	G	U30 Operable	0.300	w	21.42	26.21	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	629	629	808	435	440	440	565	304
	F	20P-36w	0.030	-	2.14	0.00	136	136	292	0	5	5	11	0
	F	IECC slab on grade f	0.014	-	0.50	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									169.3				137.0
	Envelope loss/gain							422.8	320.7			602.0		453.4
12	a) Infiltration							153.5	204			273.5		363
	b) Room ventilation							0	0			0		0
13	Internal gains:		Occupants @	230			1			230	0			0
			Appliances/other							1000				900
	Subtotal (lines 6 to 13)							576.4	464.0			875.5		579.7
	Less external load							0	0			0		0
	Less transfer							0	0			0		0
	Redistribution							0	0			0		0
14	Subtotal							576.4	464.0			875.5		579.7
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load							576.4	464.0			875.5		579.7
	Air required (cfm)							0	255			0		319

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



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Right-Suite® Universal 2024.24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet Combined Loads

All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
 Date: Oct 01, 2024
 By: ACDC - MC
 Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

		Z6 (BSMT L)				Z7 (BSMNT M)									
		9.0 ft 64.8 ft				9.0 ft 34.5 ft									
		521.3 ft²				626.7 ft²									
1	Room name	Exposed wall	Room height	Room dimensions	Room area	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	15B19-0wc-10	0.069	n	2.64	0.00	134	134	355	0	169	169	447	0	0
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	0	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	22.85	7.42	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	21.42	6.96	0	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	2.58	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	21.42	0.00	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	21.42	26.21	0	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	21.42	4.47	0	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	2.04	0.00	135	120	284	0	141	101	172	0	0
	G	U30 Operable	0.300	s	21.42	0.00	15	0	312	0	0	0	0	0	0
	G	U30 SGD	0.300	s	21.42	0.00	0	0	0	41	0	0	875	0	0
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	21.42	12.63	0	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	21.42	12.63	0	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	2.56	0.00	315	304	777	0	0	0	0	0	0
	G	U30 Operable	0.300	w	21.42	0.00	11	0	243	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	21.42	26.21	0	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	1	1	3	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	0	0	0	0	0	0	0	0	0
	F	20P-36w	0.030	-	2.14	0.00	0	0	0	0	0	0	0	0	0
	F	IECC slab on grade f	0.014	-	0.50	0.00	521	521	261	0	627	627	313	0	0
6	c) AED excursion								0						0
	Envelope loss/gain								2235	0			1807	0	0
12	a) Infiltration								285	0			0	0	0
	b) Room ventilation								0	0			0	0	0
13	Internal gains:		Occupants @		230		1			0	0				0
			Appliances/other							0					0
	Subtotal (lines 6 to 13)								2520	0			1807	0	0
	Less external load								0	0			0	0	0
	Less transfer								0	0			0	0	0
	Redistribution								0	0			0	0	0
14	Subtotal								2520	0			1807	0	0
15	Duct loads						0%	0%	0	0	0%	0%	0	0	0
	Total room load								2520	0			1807	0	0
	Air required (cfm)								0	0			0	0	0

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

2024-Oct-10 12:39:00

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Right-J® Worksheet
Combined Loads
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

						Z8 (BSMNT R)								
1	Room name					9.0 ft		60.6 ft						
2	Exposed wall													
3	Room height													
4	Room dimensions													
5	Room area							426.8 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	15B19-0wc-10	0.069	n	2.64	0.00	104	104	275	0				
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	0	0	0	0				
	W	IECC U32 operable	0.320	n	22.85	7.42	0	0	0	0				
	G	U30 Operable	0.300	n	21.42	6.96	0	0	0	0				
11	W	15B19-0wc-10	0.069	e	2.58	0.00	313	304	783	0				
	G	U30 Operable	0.300	e	21.42	0.00	9	0	187	0				
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	0	0	0	0				
	W	U30 Operable	0.300	e	21.42	26.21	0	0	0	0				
	D	U30 Wood Door	0.300	e	21.42	4.47	0	0	0	0				
	W	15B19-0wc-10	0.069	s	2.04	0.00	130	101	199	0				
	G	U30 Operable	0.300	s	21.42	0.00	29	0	625	0				
	G	U30 SGD	0.300	s	21.42	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0				
	G	U30 Operable	0.300	s	21.42	12.63	0	0	0	0				
	G	U30 SGD	0.300	s	21.42	12.63	0	0	0	0				
	W	15B19-0wc-10	0.069	w	2.56	0.00	0	0	0	0				
	G	U30 Operable	0.300	w	21.42	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	0	0	0	0				
	G	U30 Operable	0.300	w	21.42	26.21	0	0	0	0				
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0				
	C	R60 Ceiling	0.018	-	1.29	0.69	0	0	0	0				
	F	20P-38w	0.030	-	2.14	0.00	0	0	0	0				
	F	IECC slab on grade f	0.014	-	0.50	0.00	427	427	213	0				
6	c) AED excursion								0					
	Envelope loss/gain								2283	0				
12	a) Infiltration								0	0				
	b) Room ventilation								0	0				
13	Internal gains:		Occupants @	230			1		0	0				
			Appliances/other						0	0				
	Subtotal (lines 6 to 13)								2283	0				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								2283	0				
15	Duct loads						0%	0%	0	0				
	Total room load								2283	0				
	Air required (cfm)								0	0				

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



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Right-Suite® Universal 2024.24.0.02 RSU24246

2024-Oct-10 12:39:00

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... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N



Right-J® Worksheet Z1 (Owner Entry) All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name		Z1 (Owner Entry)						Bath 1					
2 Exposed wall		9.0 ft 14.5 ft						0 ft					
3 Room height		357.2 ft²						9.0 ft 1.0 x 66.0 ft					
4 Room dimensions								66.0 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 (ft²) or perimeter (ft)		Load (Btuh)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W 15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	4.86	0.39	108	108	524	43	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	4.86	0.39	23	23	109	9	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	1.29	0.69	357	357	459	247	66	66	85	46
	F 20P-38w	0.030	-	2.14	0.00	357	357	765	0	66	66	141	0
	F IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								0				0
	Env elope loss/gain							1858	298			226	46
12	a) Infiltration							554	74			0	0
	b) Room ventilation							0	0			0	0
13	Internal gains:			Occupants @ 230		0			0	0			0
	Appliances/other								1000				0
	Subtotal (lines 6 to 13)							2411	1372			226	46
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							2411	1372			226	46
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							2411	1372			226	46
	Air required (cfm)							0	76			0	3

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



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Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z1 (Owner Entry)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncom pany @gmail.com

1 Room name						Laundry				Mech				
2 Exposed wall						0 ft				2.5 ft				
3 Room height						9.0 ft				9.0 ft				
4 Room dimensions						54.6 ft²				81.3 ft²				
5 Room area						9.5 x 5.8 ft				1.0 x 81.3 ft				
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	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0	23	23	109	9
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	55	55	70	38	81	81	104	56
	F	20P-38w	0.030	-	2.14	0.00	55	55	117	0	81	81	174	0
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									0				0
	Envelope loss/gain								187	38			388	65
12	a) Infiltration								0	0			95	13
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @		230		0			0	0			0
			Appliances/other							500				500
	Subtotal (lines 6 to 13)								187	538			483	578
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								187	538			483	578
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								187	538			483	578
	Air required (cfm)								0	30			0	32

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



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Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z1 (Owner Entry)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name				Mud Room		12.0 ft								
2 Exposed wall				9.0 ft		heat/cool								
3 Room height				1.0		x 155.3 ft								
4 Room dimensions				155.3 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	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0			
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0			
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0			
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0			
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0			
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0			
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	108	108	524	43				
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0				
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0				
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0				
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0				
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0				
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0				
	C	R60 Ceiling	0.018	-	1.29	0.69	155	155	200	107				
	F	20P-38w	0.030	-	2.14	0.00	155	155	333	0				
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0				
6	c) AED excursion									0				
	Envelope loss/gain								1057	150				
12	a) Infiltration								458	61				
	b) Room ventilation								0	0				
13	Internal gains:		Occupants @	230			0			0				
			Appliances/other							0				
	Subtotal (lines 6 to 13)								1515	211				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								1515	211				
15	Duct loads						0%	0%	0	0				
	Total room load								1515	211				
	Air required (cfm)								0	12				

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



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Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z2 (GARAGE)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

		Z2 (GARAGE)				Garage								
1	Room name	9.0 ft				54.0 ft								
2	Exposed wall	720.0 ft²				9.0 ft								
3	Room height					24.0 x 30.0 ft								
4	Room dimensions					heat/cool								
5	Room area					720.0 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	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	216	216	1049	85	216	216	1049	85
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	270	251	1217	99	270	251	1217	99
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	21.42	4.47	19	19	412	86	19	19	412	86
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	720	720	925	498	720	720	925	498
	F	20P-38w	0.030	-	2.14	0.00	720	720	1542	0	720	720	1542	0
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									0				0
	Envelope loss/gain								5146	768			5146	768
12	a) Infiltration								2062	274			2062	274
	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)								7209	1042			7209	1042
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								7209	1042			7209	1042
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								7209	1042			7209	1042
	Air required (cfm)								0	57			0	57

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

2024-Oct-10 12:39:00

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Right-J® Worksheet Z3 (MASTER) All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

		Z3 (MASTER)				M. Bath								
1	Room name	9.0 ft				11.1 ft								
2	Exposed wall	49.6 ft				1.0 x 126.4 ft								
3	Room height													
4	Room dimensions	513.6 ft²				126.4 ft²								
5	Room area													
	Ty	Construction number	U-v value (Btu/h/ft²·°F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	132	89	432	35	0	0	0	0
	G	U30 Operable	0.300	s	21.42	12.63	43	0	925	545	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	315	288	1398	114	100	100	486	39
	G	U30 Operable	0.300	w	21.42	26.21	27	0	587	718	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	514	514	660	355	126	126	162	87
	F	20P-38w	0.030	-	2.14	0.00	2	2	4	0	1	1	1	0
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								1108					-3
	Env elope loss/gain							4006	2876			649	124	
12	a) Infiltration							1899	252			424	56	
	b) Room ventilation							0	0			0	0	
13	Internal gains:		Occupants @		230		2		460	0	0		0	0
			Appliances/other						0				0	0
	Subtotal (lines 6 to 13)							5905	3588			1073	180	
	Less external load							0	0			0	0	
	Less transfer							0	0			0	0	
	Redistribution							0	0			0	0	
14	Subtotal							5905	3588			1073	180	
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load							5905	3588			1073	180	
	Air required (cfm)							0	197			0	10	

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



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Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet Z3 (MASTER) All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name				M. Bed				M. Clst						
2 Exposed wall				9.0 ft 33.2 ft heat/cool				9.0 ft 5.3 ft heat/cool						
3 Room height				1.0 x 339.8 ft				1.0 x 27.5 ft						
4 Room dimensions				339.8 ft²				27.5 ft²						
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	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	132	89	432	35	0	0	0	0
	G	U30 Operable	0.300	s	21.42	12.63	43	0	925	545	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	167	145	706	57	49	43	208	17
	G	U30 Operable	0.300	w	21.42	26.21	22	0	462	566	6	0	125	153
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	340	340	437	235	28	28	35	19
	F	20P-38w	0.030	-	2.14	0.00	1	1	3	0	0	0	0	0
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									974				138
	Env elope loss/gain								2964	2412			368	326
12	a) Infiltration								1269	169			206	27
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @		230		2			460	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								4233	3040			574	354
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								4233	3040			574	354
15	Duct loads							0%	0%	0	0	0%	0%	0
	Total room load								4233	3040			574	354
	Air required (cfm)								0	167			0	19

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



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Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet Z3 (MASTER) All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1	Room name				M. Tit										
	Exposed wall				9.0 ft				0 ft						
	Room height				20.0 ft ²				heat/cool						
3	Room dimensions				1.0				x 20.0 ft						
5	Room area														
	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	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0				
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0				
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0				
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0				
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0				
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0				
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0				
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0				
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0	0				
	G	U30 Operable	0.300	s	21.42	12.63	0	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0				
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	0	0	0	0	0				
	G	U30 Operable	0.300	w	21.42	26.21	0	0	0	0	0				
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0				
	C	R60 Ceiling	0.018	-	1.29	0.69	20	20	26	14					
	F	20P-38w	0.030	-	2.14	0.00	0	0	0	0	0				
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0				
6	c) AED excursion													0	
	Envelope loss/gain													26	14
12	a) Infiltration													0	0
	b) Room ventilation													0	0
13	Internal gains:				Occupants @	230		0		0					
					Appliances/other					0					
	Subtotal (lines 6 to 13)													26	14
	Less external load													0	0
	Less transfer													0	0
	Redistribution													0	0
14	Subtotal													26	14
15	Duct loads											0%	0%	0	0
	Total room load													26	14
	Air required (cfm)													0	1

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



Right-Suite® Universal 2024 24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

2024-Oct-10 12:39:00

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Right-J® Worksheet
Z4 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name		Z4 (COMMONS)						Bed 1					
2 Exposed wall		9.0 ft						22.1 ft					
3 Room height		40.1 ft						9.0 ft					
4 Room dimensions		628.8 ft²						134.5 ft²					
5 Room area		628.8 ft²						134.5 ft²					
Ty	Construction number	U-v value (Btu/h/ft²·°F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	n	4.86	0.39	95	83	401	33	95	83	401	33
	G IECC U32 operable	0.320	n	22.85	7.42	12	0	282	92	12	0	282	92
	G U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W 15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	4.86	0.39	104	104	506	41	104	104	506	41
	D U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	4.86	0.39	163	93	453	37	0	0	0	0
	G U30 Operable	0.300	s	21.42	12.63	69	0	1487	877	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	1.29	0.69	629	629	808	435	134	134	173	93
	F 20P-36w	0.030	-	2.14	0.00	136	136	292	0	134	134	288	0
	F IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								169.3				62
	Env elope loss/gain							422.8	320.7			165.0	320
12	a) Infiltration							153.5	204			84.5	112
	b) Room ventilation							0	0			0	0
13	Internal gains:			Occupants @ 230		1			230	1		230	0
	Appliances/other								1000			1000	0
	Subtotal (lines 6 to 13)							576.4	464.0			249.5	66.3
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							576.4	464.0			249.5	66.3
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							576.4	464.0			249.5	66.3
	Air required (cf m)							0	255			0	36

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

2024-Oct-10 12:39:00

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Right-J® Worksheet
Z4 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1	Room name				Clst 1				Dining Room					
	Exposed wall				0 ft				18.0 ft					
	Room height				9.0 ft				9.0 ft					
Room dimensions				22.3 ft ²				202.3 ft ²						
Room area				1.0 x 22.3 ft				1.0 x 202.3 ft						
6	Ty	Construction number	U-v value (Btuh/ft ² -°F)	Or	HTM (Btuh/ft ²)		Area (ft ²) or perimeter (ft)		Load (Btuh)		Area (ft ²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	22.85	7.42	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0	163	93	453	37
	G	U30 Operable	0.300	s	21.42	12.63	0	0	0	0	69	0	1487	877
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	1.29	0.69	22	22	29	15	202	202	260	140
	F	20P-38w	0.030	-	2.14	0.00	0	0	0	0	2	2	3	0
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion													1632
	Envelope loss/gain								29	15			2203	2886
12	a) Infiltration								0	0			690	92
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other				230		0				0	0		0
	Subtotal (lines 6 to 13)								29	15			2893	2777
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								29	15			2893	2777
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								29	15			2893	2777
	Air required (cfm)								0	1			0	153

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

2024-Oct-10 12:39:00

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Right-J® Worksheet
Z4 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

1 Room name						Kitchen				M. Hall			
2 Exposed wall						0 ft				0 ft			
3 Room height						9.0 ft				9.0 ft			
4 Room dimensions						1.0 x 217.8 ft				1.0 x 51.9 ft			
5 Room area						217.8 ft²				51.9 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 15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	n	4.86	0.39	0	0	0	0	0	0	0	0
	G IECC U32 operable	0.320	n	22.85	7.42	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W 15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	4.86	0.39	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	21.42	12.63	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	1.29	0.69	218	218	280	151	52	52	67	36
	F 20P-38w	0.030	-	2.14	0.00	0	0	0	0	0	0	0	0
	F IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								-1				0
	Envelope loss/gain							280	149			67	36
12	a) Infiltration							0	0			0	0
	b) Room ventilation							0	0			0	0
13	Internal gains:			Occupants @ 230		0			0	0			0
				Appliances/other					1000				0
	Subtotal (lines 6 to 13)							280	1149			67	36
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							280	1149			67	36
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							280	1149			67	36
	Air required (cfm)							0	63			0	2

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N



Right-J® Worksheet
Z5 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name		Z5 (COMMONS)						Living Room					
2 Exposed wall		9.0 ft 71.5 ft						9.0 ft 38.3 ft heat/cool					
3 Room height								1.0 x 319.1 ft					
4 Room dimensions		439.8 ft²						319.1 ft²					
5 Room area													
Ty	Construction number	U-v value (Btuh/ft²·F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	n	4.86	0.39	114	92	446	36	0	0	0	0
	G IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	n	21.42	6.96	22	0	462	150	0	0	0	0
11	W 15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	4.86	0.39	313	238	1157	94	183	133	647	53
	D U30 Operable	0.300	e	21.42	26.21	75	0	1607	1965	50	0	1071	1310
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	4.86	0.39	114	70	342	28	114	70	342	28
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	21.42	12.63	43	0	925	545	43	0	925	545
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	4.86	0.39	104	104	506	41	49	49	236	19
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	1.29	0.69	440	440	565	304	319	319	410	221
	F 20P-36w	0.030	-	2.14	0.00	5	5	11	0	4	4	8	0
	F IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								1370				994
	Env elope loss/gain							6020	4534			3638	3170
12	a) Infiltration							2735	363			1466	195
	b) Room ventilation							0	0			0	0
13	Internal gains:			Occupants @ 230		0			0	0			0
				Appliances/other					900				900
	Subtotal (lines 6 to 13)							8755	5797			5104	4264
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							8755	5797			5104	4264
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							8755	5797			5104	4264
	Air required (cfm)							0	319			0	235

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N



Right-J® Worksheet
Z5 (COMMONS)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1	Room name				M. Stair									
	Exposed wall				33.2 ft									
	Room height				9.0 ft				heat/cool					
Room dimensions				1.0 x 120.7 ft										
Room area				120.7 ft²										
	Ty	Construction number	U-v alue (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	15B19-0wc-10	0.069	n	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	n	4.86	0.39	114	92	446	36				
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	n	21.42	6.96	22	0	462	150				
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	e	4.86	0.39	130	105	509	41				
	G	U30 Operable	0.300	e	21.42	26.21	25	0	536	655				
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0				
	W	15B19-0wc-10	0.069	s	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	s	4.86	0.39	0	0	0	0				
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0				
	G	U30 SGD	0.300	s	21.42	12.63	0	0	0	0				
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	w	4.86	0.39	56	56	270	22				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0				
	C	R38 Floor Ceiling	0.029	-	0.00	0.00	0	0	0	0				
	C	R60 Ceiling	0.018	-	1.29	0.69	121	121	155	83				
	F	R20P-38w	0.030	-	2.14	0.00	1	1	3	0				
	F	IECC slab on grade f	0.014	-	0.00	0.00	0	0	0	0				
6	c) AED excursion												375	
	Env elope loss/gain												2381	1364
12	a) Infiltration												1269	169
	b) Room ventilation												0	0
13	Internal gains:				Occupants @	230		0			0			
					Appliances/other						0			
	Subtotal (lines 6 to 13)												3651	1532
	Less external load												0	0
	Less transfer												0	0
	Redistribution												0	0
14	Subtotal												3651	1532
15	Duct loads										0%	0%	0	0
	Total room load												3651	1532
	Air required (cfm)												0	84

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



Right-Suite® Universal 2024.24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N



Right-J® Worksheet
Z6 (BSMT L)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Email: allclimatedesigncompany@gmail.com

1	Room name				Z6 (BSMT L)				Bath 2					
	Exposed wall				9.0 ft				0 ft					
	Room height				64.8 ft				heat only					
3	Room dimensions				9.0 ft				1.0 x 89.3 ft					
5	Room area				521.3 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	15B19-0wc-10	0.069	n	2.64	0.00	134	134	355	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	2.36	0.00	135	120	284	0	0	0	0	0
	G	U30 Operable	0.300	s	21.42	0.00	15	0	312	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	2.56	0.00	315	304	777	0	0	0	0	0
	G	U30 Operable	0.300	w	21.42	0.00	11	0	243	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	1	1	3	0	0	0	0	0
	C	R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	20P-38w	0.030	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	IECC slab on grade f	0.014	-	0.50	0.00	521	521	261	0	89	89	45	0
6	c) AED excursion								0					0
	Envelope loss/gain								2235	0			45	0
12	a) Infiltration								285	0			6	0
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other				230		1		0	0	0		0	0
	Subtotal (lines 6 to 13)								2520	0			50	0
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2520	0			50	0
15	Duct loads						0%	0%	0	0	0%	0%	0	0
	Total room load								2520	0			50	0
	Air required (cfm)								0	0			0	0

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



Right-Suite® Universal 2024 24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z6 (BSMT L)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

		Bed 2 9.0 ft x 30.2 ft heat only 224.8 ft²				Clst 2 9.0 ft x 22.9 ft heat only 22.9 ft²												
1	Room name	Exposed wall	Room height	Room dimensions	Room area	HTM (Btuh/ft²)				Area (ft²) or perimeter (ft)				Load (Btuh)				
						U-v value (Btuh/ft²-F)	Or	Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
6	W	15B19-0wc-10	0.069	n	2.64	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	L	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	L	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	2.36	0.00	135	120	284	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	21.42	0.00	15	0	312	0	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	2.56	0.00	137	126	306	0	19	19	49	0	0	0	0	0
	L	U30 Operable	0.300	w	21.42	0.00	11	0	243	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	1	0	0	0	0	0	0	0	0	0
	C	R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	F	20P-38w	0.030	-	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	F	IECC slab on grade f	0.014	-	0.50	0.00	225	225	112	0	23	23	11	0	0	0	0	0
6	c) AED excursion									0								0
	Envelope loss/gain									1259	0		61	0				0
12	a) Infiltration									161	0		8	0				0
	b) Room ventilation									0	0		0	0				0
13	Internal gains:		Occupants @		230		1			0	0		0	0				0
			Appliances/other							0	0		0	0				0
	Subtotal (lines 6 to 13)									1419	0		68	0				0
	Less external load									0	0		0	0				0
	Less transfer									0	0		0	0				0
	Redistribution									0	0		0	0				0
14	Subtotal									1419	0		68	0				0
15	Duct loads						0%	0%		0	0		0	0				0
	Total room load									1419	0		68	0				0
	Air required (cfm)									0	0		0	0				0

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



Right-Suite® Universal 2024 24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z6 (BSMT L)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1	Room name				Storage				Tit 2						
	Exposed wall				24.2 ft				8.4 ft						
	Room height				9.0 ft				9.0 ft						
Room dimensions				1.0 x 138.5 ft				1.0 x 45.8 ft							
Room area				138.5 ft²				45.8 ft²							
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	15B19-0wc-10	0.069	n	2.64	0.00	134	134	355	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0	0
11	W	15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	s	2.36	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	21.42	0.00	0	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0	0
	W	15B19-0wc-10	0.069	w	2.56	0.00	83	83	221	0	76	76	202	0	0
	G	U30 Operable	0.300	w	21.42	0.00	0	0	0	0	0	0	0	0	0
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0	0
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0	0	0	1	0	0
	C	R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	F	20P-38w	0.030	-	0.00	0.00	0	0	0	0	0	0	0	0	0
	F	IECC slab on grade f	0.014	-	0.50	0.00	139	139	69	0	46	46	23	0	0
6	c) AED excursion									0					0
	Env elope loss/gain								645	0			226	0	0
12	a) Infiltration								82	0			29	0	0
	b) Room ventilation								0	0			0	0	0
13	Internal gains:				Occupants @	230		0		0	0				0
					Appliances/other					0	0				0
	Subtotal (lines 6 to 13)								727	0			255	0	0
	Less external load								0	0			0	0	0
	Less transfer								0	0			0	0	0
	Redistribution								0	0			0	0	0
14	Subtotal								727	0			255	0	0
15	Duct loads						0%	0%	0	0	0%	0%	0	0	0
	Total room load								727	0			255	0	0
	Air required (cfm)								0	0			0	0	0

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



Right-Suite® Universal 2024 24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z7 (BSMNT M)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name		Z7 (BSMNT M)						Basement					
2 Exposed wall		9.0 ft						34.5 ft					
3 Room height		9.0 ft						heat only					
4 Room dimensions		626.7 ft²						9.0 ft 1.0 x 626.7 ft					
5 Room area		626.7 ft²											
Ty	Construction number	U-v value (Btu/h/ft²·°F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	2.64	0.00	169	169	447	0	169	169	447	0
	W IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W 15B19-0wc-10	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	1.71	0.00	141	101	172	0	141	101	172	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	21.42	0.00	41	0	875	0	41	0	875	0
	W IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0	0	0	0	0
	F 20P-38w	0.030	-	0.00	0.00	0	0	0	0	0	0	0	0
	F IECC slab on grade f	0.014	-	0.50	0.00	627	627	313	0	627	627	313	0
6	c) AED excursion								0				0
	Env elope loss/gain							1807	0			1807	0
12	a) Infiltration							0	0			0	0
	b) Room ventilation							0	0			0	0
13	Internal gains:	Occupants @		230		0		0	0	0		0	0
		Appliances/other						0	0			0	0
	Subtotal (lines 6 to 13)							1807	0			1807	0
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							1807	0			1807	0
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							1807	0			1807	0
	Air required (cf m)							0	0			0	0

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



Right-Suite® Universal 2024 24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z8 (BSMNT R)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name						Z8 (BSMNT R)				Bath 3			
2 Exposed wall						9.0 ft				5.9 ft			
3 Room height						9.0 ft				1.0 x 96.7 ft			
4 Room dimensions						426.8 ft²				96.7 ft²			
5 Room area													
Ty	Construction number	U-v value (Btuh/ft²·F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	2.64	0.00	104	104	275	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W 15B19-0wc-10	0.069	e	2.58	0.00	313	304	783	0	53	53	141	0
	G U30 Operable	0.300	e	21.42	0.00	9	9	187	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	1.98	0.00	130	101	199	0	0	0	0	0
	G U30 Operable	0.300	s	21.42	0.00	29	0	625	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0	0	0	0	0
	F 20P-38w	0.030	-	0.00	0.00	0	0	0	0	0	0	0	0
	F IECC slab on grade f	0.014	-	0.50	0.00	427	427	213	0	97	97	48	0
6	c) AED excursion								0				0
	Env elope loss/gain							228.3	0			190	0
12	a) Infiltration							0	0			0	0
	b) Room ventilation							0	0			0	0
13	Internal gains:	Occupants @		230		1			0	0			0
		Appliances/other							0				0
	Subtotal (lines 6 to 13)							228.3	0			190	0
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							228.3	0			190	0
15	Duct loads					0%	0%	0	0	0%	0%	0	0
	Total room load							228.3	0			190	0
	Air required (cfm)							0	0			0	0

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



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Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z8 (BSMNT R)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1 Room name				Bed 3 29.1 ft heat only				BStair 23.3 ft heat only					
2 Exposed wall				9.0 ft 1.0 x 214.1 ft				9.0 ft 1.0 x 91.7 ft					
3 Room height				214.1 ft²				91.7 ft²					
4 Room dimensions													
5 Room area													
Ty	Construction number	U-v value (Btuh/ft²-F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
				Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W 15B19-0wc-10	0.069	n	2.64	0.00	0	0	0	0	104	104	275	0
	W IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0	0	0	0
	G IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0	0	0	0
11	W 15B19-0wc-10	0.069	e	2.58	0.00	132	123	306	0	106	106	281	0
	G U30 Operable	0.300	e	21.42	0.00	9	0	187	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	D U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	s	1.98	0.00	130	101	199	0	0	0	0	0
	G U30 Operable	0.300	s	21.42	0.00	29	0	625	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 SGD	0.300	s	0.00	0.00	0	0	0	0	0	0	0	0
	W 15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	W IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0	0	0	0	0
	G U30 Operable	0.300	w	0.00	0.00	0	0	0	0	0	0	0	0
	C R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0	0	0	0	0
	C R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0	0	0	0	0
	F 20P-38w	0.030	-	0.00	0.00	0	0	0	0	0	0	0	0
	F IECC slab on grade f	0.014	-	0.50	0.00	214	214	107	0	92	92	46	0
6	c) AED excursion							0					0
	Env elope loss/gain							1424	0			602	0
12	a) Infiltration							0	0			0	0
	b) Room ventilation							0	0			0	0
13	Internal gains:		Occupants @ Appliances/other	230		1		0	0	0	0	0	0
	Subtotal (lines 6 to 13)							1424	0			602	0
	Less external load							0	0			0	0
	Less transfer							0	0			0	0
	Redistribution							0	0			0	0
14	Subtotal							1424	0			602	0
15	Duct loads							0%	0%			0	0
	Total room load							1424	0			602	0
	Air required (cfm)							0	0			0	0

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



wrightsoft

Right-Suite® Universal 2024 24.0.02 RSU24246

2024-Oct-10 12:39:00

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet
Z8 (BSMNT R)
All Climate Design Company

Job: 200 Sundance Ct. Unit B #25...
Date: Oct 01, 2024
By: ACDC - MC
Plan: 200 Sundance Ct. Unit B #25...

Phone: 970-640-2119 Em ail: allclimatedesigncompany@gmail.com

1	Room name				Clst 3									
	Exposed wall				9.0 ft				2.3 ft					
	Room height				24.3 ft				heat only					
3	Room dimensions				9.0 ft				1.0 x 24.3 ft					
4	Room area				24.3 ft²									
6	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	15B19-0wc-10	0.069	n	2.64	0.00	0	0	0	0	0			
	W	IECC R-20 2x6 wall	0.068	n	0.00	0.00	0	0	0	0	0			
	G	IECC U32 operable	0.320	n	0.00	0.00	0	0	0	0	0			
	G	U30 Operable	0.300	n	0.00	0.00	0	0	0	0	0			
11	W	15B19-0wc-10	0.069	e	2.58	0.00	21	21	55	0				
	G	U30 Operable	0.300	e	21.42	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	e	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	e	0.00	0.00	0	0	0	0				
	D	U30 Wood Door	0.300	e	0.00	0.00	0	0	0	0				
	W	15B19-0wc-10	0.069	s	1.98	0.00	0	0	0	0				
	G	U30 Operable	0.300	s	21.42	0.00	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	s	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	s	0.00	0.00	0	0	0	0				
	G	U30 SGD	0.300	s	0.00	0.00	0	0	0	0				
	W	15B19-0wc-10	0.069	w	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0				
	W	IECC R-20 2x6 wall	0.068	w	0.00	0.00	0	0	0	0				
	G	U30 Operable	0.300	w	0.00	0.00	0	0	0	0				
	C	R38 Floor Ceiling	0.029	-	2.07	0.00	0	0	0	0				
	C	R60 Ceiling	0.018	-	0.00	0.00	0	0	0	0				
	F	20P-38w	0.030	-	0.00	0.00	0	0	0	0				
	F	IECC slab on grade f	0.014	-	0.50	0.00	24	24	12	0				
6	c) AED excursion									0				
	Envelope loss/gain									67	0			
12	a) Infiltration									0	0			
	b) Room ventilation									0	0			
13	Internal gains:				Occupants @	230		0			0			
					Appliances/other						0			
	Subtotal (lines 6 to 13)									67	0			
	Less external load									0	0			
	Less transfer									0	0			
	Redistribution									0	0			
14	Subtotal									67	0			
15	Duct loads						0%	0%		0	0			
	Total room load									67	0			
	Air required (cfm)									0	0			

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



Right-Suite® Universal 2024 24.0.02 RSU24246

... project list\200 Sundance Ct. Unit B #2509.rup Calc = MJ8 Front Door faces: N