

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| 1 Name of Room | | | 1st Floor | | | | | | Entry | | | | | | | | |
|--|--|------------------------|---------------------------------|-------|----------------|---------|----------------|-------|----------------|---------|-------|-------|------|-----|------|---|---|
| 2 Running Feet of Exposed Wall | | | 320.8 ft | | | | | | 11.3 ft | | | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 11.0 ft | | 10898.9 ft² | | 10.0 ft | | 480.0 ft² | | | | | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | | | 3273.3 ft² | | 11.3 x 12.8 ft | | 143.4 ft² | | | | | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 3768.9 ft² | | 0 ° | | 143.4 ft² | | | | | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | | | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | | | | | |
| 6 11 | Wall | 12F-6sw | n | 3.04 | 0.45 | 1309 | 3279 | 484 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 48 | 913 | 285 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 18 | 297 | 119 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 32 | 527 | 212 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 64 | 1096 | 506 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 21 | 377 | 171 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 48 | 883 | 394 | | 0 | 0 | 0 | | | | | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 113 | 414 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 487 | 961 | 142 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 18 | 297 | 379 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 24 | 396 | 582 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 18 | 297 | 322 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 24 | 396 | 429 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 18 | 297 | 379 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 9 | 148 | 201 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 24 | 396 | 582 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 36 | 593 | 896 | | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 1309 | 2035 | 300 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 320 | 5275 | 2664 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 320 | 5275 | 2664 | | 0 | 0 | 0 | | | | | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 113 | 322 | 0 | | 113 | 322 | 0 | | | | | |
| | Door | 11J0 | s | 38.04 | 14.67 | 24 | 913 | 352 | | 24 | 913 | 352 | | | | | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 487 | 735 | 108 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 117 | 1934 | 2137 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 128 | 2191 | 3100 | | 0 | 0 | 0 | | | | | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 425 | 2331 | 351 | | 255 | 1471 | 222 | | | | | |
| | Door | 11J0 | n | 38.04 | 14.67 | 21 | 799 | 308 | | 0 | 0 | 0 | | | | | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 1777 | 4560 | 1273 | | 0 | 0 | 0 | | | | | |
| | Floor | 19C-19cscp | - | 1.08 | 0.28 | 1217 | 1310 | 345 | | 0 | 0 | 0 | | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 239 | 212 | 0 | | 143 | 127 | 0 | | | | | |
| Floor | 21B-32t | - | 0.89 | 0.00 | 313 | 278 | 0 | | 0 | 0 | 0 | | | | | | |
| Floor | 21B-32t | - | 0.89 | 0.00 | 8 | 7 | 0 | | 0 | 0 | 0 | | | | | | |
| 12 | Infiltration | | Heating Load (Btuh) | | Effect ACH | 0.10 | WAR 1.00 | 3191 | WAR 0 | 0 | 0 | 0 | | | | | |
| | | | Sensible Load (Btuh) | | | | | | | | | | 0.05 | 420 | -565 | 0 | 0 |
| | | | Latent Load (Btuh) | | | | | | | | | | | | | | |
| 13 | Internal | | a Occupants at 230 and 200 Btuh | | | 5 | 1150 | 1000 | 0 | 0 | 0 | 0 | | | | | |
| | | | b Scenario number | | | | | | | | | | | | | | |
| | | | c Default Adjustments | | | | | | | | | | | | | | |
| | | | d Custom Appliances | | | | | | | | | | | | | | |
| | | | e Plants | | | | | | | | | | | | | | |
| 14 Subtotals | | Sum lines 6 through 12 | | | | 42933 | 29457 | 13335 | 2834 | 521 | | | | | | | |
| 15 | Duct Loads | | EHLF & ESGF | | 0.002 | 0.002 | 75 | 45 | | 3 | 1 | | | | | | |
| | | | ELG | | | | | 0 | | | 0 | | | | | | |
| 16 | Ventilation Loads | | Vent Cfm | 136 | E Cfm | 136 | 7748 | 2041 | -2745 | | | | | | | | |
| 17 | Winter Humidification Load | | Gal/Day | | 11.5 | 4970 | | | | | | | | | | | |
| 18 | Piping Load | | | | | 0 | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | 1707 | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | 0 | | | | -53 | | | | | | |
| 21 | Total Load | | Sum lines 13 through 19 | | | | 55727 | 33249 | 10590 | 2837 | 522 | | | | | | |

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

| 1 Name of Room | | | Pwdr | | | | | | Stair | | | | |
|--|--|---------------------------------|--------------|------------|----------------|-----------|-------|-------|----------------|---------|-------|-------|--|
| 2 Running Feet of Exposed Wall | | | 7.3 ft | | | | | | 4.0 ft | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 10.0 ft | | | 315.0 ft² | | | 10.0 ft | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 7.3 x 8.5 ft | | | 61.6 ft² | | | 4.0 x 8.5 ft | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | | 61.6 ft² | | | 0 ° | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 73 | 267 | 0 | 40 | 147 | 0 | 0 | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 85 | 490 | 74 | 85 | 369 | 56 | 0 | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 21 | 799 | 308 | 0 | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Floor | 19C-19cscp | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 62 | 55 | 0 | 34 | 30 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR | | 0 | | 0 | |
| | | Sensible Load (Btuh) | | 0.05 | | WAR | | 0 | | 0 | | 0 | |
| | | Latent Load (Btuh) | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | | 0 | | 0 | | 0 | |
| | | b Scenario number | | | | 0 | | 0 | | 0 | | 0 | |
| | | c Default Adjustments | | | | | | | | | | | |
| | | d Custom Appliances | | | | 0 | | 0 | | 0 | | 700 | |
| | | e Plants | | | | 0 | | 0 | | 0 | | 0 | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | 812 | | 67 | | 1345 | | 330 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 1 | | 0 | | 1 | |
| | | ELG | | | | | | 0 | | | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | -7 | | | | -34 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | 813 | | 67 | | 1347 | | 331 | |

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

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| 1 Name of Room | | | Great Room | | | | | | Kitchen | | | |
|--|--|---------------------------------|----------------|------------|----------------|---------|----------------|-------|----------------|---------|-------|-------|
| 2 Running Feet of Exposed Wall | | | 57.5 ft | | | | | | 16.3 ft | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 20.9 ft | | 1458.6 ft² | | 10.0 ft | | 565.0 ft² | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 16.0 x 25.5 ft | | 408.0 ft² | | 16.3 x 12.0 ft | | 195.0 ft² | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 903.6 ft² | | 0 ° | | 195.0 ft² | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 302 | 772 | 114 | | 163 | 430 | 63 |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | | 21 | 377 | 171 |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 48 | 883 | 394 | | 0 | 0 | 0 |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 504 | 561 | 83 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 224 | 3692 | 1865 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 96 | 1582 | 799 | | 0 | 0 | 0 |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 487 | 735 | 108 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 117 | 1934 | 2137 | | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 128 | 2191 | 3100 | | 0 | 0 | 0 |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 502 | 1288 | 360 | | 0 | 0 | 0 |
| | Floor | 19C-19cscp | - | 1.08 | 0.28 | 329 | 355 | 93 | | 135 | 145 | 38 |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 88 | 78 | 0 | | 0 | 0 | 0 |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | WAR | 1149 | | WAR | 144 | |
| | | Sensible Load (Btuh) | | | | 0.05 | 0.36 | | | 0.05 | 19 | |
| | | Latent Load (Btuh) | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | b Scenario number | | | | | 0 | | | | 0 | |
| | | c Default Adjustments | | | | | | | | | | |
| | | d Custom Appliances | | | | | 1500 | 1500 | | | 2000 | 2000 |
| | | e Plants | | | | | | 0 | | | | 0 |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | 15220 | 11584 | | | 1097 | 2081 |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | 0.002 | | 0 | 0 | | 0 | 0 | |
| | | ELG | | | | | | | 0 | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | 136 | E Cfm | 136 | | | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | 879 | | | -211 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | 15220 | 11584 | | | 1097 | 2081 |

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

| 1 Name of Room | | | Dining | | | | | | M. Entry Hall | | | | | | |
|--|--|---------------------------------|----------------|------------|----------------|---------|---------------|-------|----------------|---------|-------|-------|--|-----|--|
| 2 Running Feet of Exposed Wall | | | 16.3 ft | | | | | | 14.0 ft | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 10.0 ft | | 595.0 ft² | | 10.0 ft | | 360.0 ft² | | | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 16.3 x 13.5 ft | | 219.4 ft² | | 14.0 x 4.0 ft | | 56.0 ft² | | | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 219.4 ft² | | 0 ° | | 56.0 ft² | | | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | | | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 163 | 300 | 44 | 140 | 231 | 34 | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 64 | 1055 | 533 | 64 | 1055 | 533 | | | | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Floor | 19C-19cscsp | - | 1.08 | 0.28 | 104 | 112 | 30 | 0 | 0 | 0 | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 69 | 61 | 0 | 56 | 50 | 0 | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR | | 144 | | 124 | | | |
| | | Sensible Load (Btuh) | | 0.05 | | WAR | | 0.05 | | 19 | | 16 | | | |
| | | Latent Load (Btuh) | | | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | | 0 | | 0 | | 0 | | | |
| | | b Scenario number | | | | 0 | | 0 | | 0 | | 0 | | | |
| | | c Default Adjustments | | | | | | | | | | | | | |
| | | d Custom Appliances | | | | 1500 | | 1500 | | 0 | | 0 | | | |
| | | e Plants | | | | 0 | | 0 | | 0 | | 0 | | | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | | 1672 | | 2098 | | 1460 | | 698 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 0 | | 0 | | 0 | | 0 | |
| | | ELG | | | | | | 0 | | | | | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | -28 | | | | 115 | | | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | | 1672 | | 2098 | | 1460 | | 698 | |

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

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| 1 Name of Room | | | Main Stair | | | | | | Pantry | | | | | | | | |
|--|--|---------------------------------|---------------|------------|----------------|-----------|-------|----------|----------------|---------|-------|-----------|--|-----|--|----|--|
| 2 Running Feet of Exposed Wall | | | 6.0 ft | | | | | | 8.0 ft | | | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 10.0 ft | | | 550.0 ft² | | | 10.0 ft | | | 320.0 ft² | | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 6.0 x 21.5 ft | | | 129.0 ft² | | | 8.0 x 8.0 ft | | | 64.0 ft² | | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | | 129.0 ft² | | | 0 ° | | | 64.0 ft² | | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | | | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | | | | | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 60 | 37 | 5 | | 80 | 243 | 36 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 48 | 913 | 285 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Floor | 19C-19cscp | - | 1.08 | 0.28 | 0 | 0 | 0 | | 62 | 67 | 18 | | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 2 | 1 | 0 | | 0 | 0 | 0 | | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR 0.02 | | 53 | | WAR 0.02 | | 71 | | | |
| | | Sensible Load (Btuh) | | | | 0.05 | | | | 7 | | | | 9 | | | |
| | | Latent Load (Btuh) | | | | | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | | 0 | | 0 | | 0 | | 0 | | | |
| | | b Scenario number | | | | 0 | | 0 | | 0 | | 0 | | 0 | | | |
| | | c Default Adjustments | | | | | | | | | | | | | | | |
| | | d Custom Appliances | | | | 0 | | 0 | | 0 | | 0 | | 0 | | | |
| | | e Plants | | | | | | 0 | | | | | | 0 | | | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | | 1004 | | 270 | | | | 381 | | 57 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | | ELG | | | | | | | | 0 | | | | | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | | | | | |
| 17 | Winter Humidification Load | | | Gal/Day | | 11.5 | | | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | | | -27 | | | | -6 | | | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | | 1004 | | 270 | | | | 381 | | 57 | |

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

| 1 Name of Room | | | Utility | | | | | | Main Pwdr | | | | | | | | |
|--|--|---------------------|---------------------------------|-------|----------------|---------|--------------|-------|----------------|---------|-------|-------|------|---|---|---|---|
| 2 Running Feet of Exposed Wall | | | 0 ft | | | | | | 0 ft | | | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 10.0 ft | | 280.0 ft² | | 10.0 ft | | 310.0 ft² | | | | | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 8.0 x 6.0 ft | | 48.0 ft² | | 8.0 x 7.5 ft | | 60.0 ft² | | | | | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 48.0 ft² | | 0 ° | | 60.0 ft² | | | | | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | | | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | | | | | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 11 | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Flr | 19C-19cscsp | - | 1.08 | 0.28 | 47 | 50 | 13 | 56 | 61 | 16 | | | | | | | |
| Flr | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Flr | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 2 | 2 | 0 | | | | | | | |
| Flr | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| 12 | Infiltration | | Heating Load (Btuh) | | Effect ACH | 0.10 | WAR 0 | 0 | WAR 0 | 0 | 0 | 0 | | | | | |
| | | | Sensible Load (Btuh) | | | | | | | | | | 0.05 | 0 | 0 | 0 | 0 |
| | | | Latent Load (Btuh) | | | | | | | | | | | | | | |
| 13 | Internal | | a Occupants at 230 and 200 Btuh | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | | b Scenario number | | | | 0 | | | 0 | | 0 | | | | | |
| | | | c Default Adjustments | | | | | | | | | | | | | | |
| | | | d Custom Appliances | | | | 500 | 500 | | 0 | 0 | 0 | | | | | |
| | | | e Plants | | | | | 0 | | | | 0 | | | | | |
| 14 | Subtotals | | Sum lines 6 through 12 | | | | 50 | 466 | | 62 | 14 | | | | | | |
| 15 | Duct Loads | | EHLF & ESGF | | 0.002 | 0.002 | 0 | 0 | | 0 | 0 | | | | | | |
| | | | ELG | | | | | 0 | | | 0 | | | | | | |
| 16 | Ventilation Loads | | Vent Cfm | 136 | E Cfm | 136 | | | | | | | | | | | |
| 17 | Winter Humidification Load | | Gal/Day | | 11.5 | | | | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | | | | | | | | | | |
| 21 | Total Load | | Sum lines 13 through 19 | | | | 50 | 466 | | 62 | 14 | | | | | | |

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

| 1 Name of Room | | | M. Clo | | | M. Bath | | | | | | | |
|--|--|---------------------------------|---------------|-----------------------|----------------|-----------------------|-------|-------|----------------|---------|-------|-------|-----|
| 2 Running Feet of Exposed Wall | | | 5.8 ft | | | 25.0 ft | | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 10.0 ft | 340.0 ft ² | 10.0 ft | 500.0 ft ² | | | | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 5.8 x 11.3 ft | 64.7 ft ² | 13.8 x 11.3 ft | 154.7 ft ² | | | | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | 64.7 ft ² | 0 ° | 154.7 ft ² | | | | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 58 | 175 | 26 | | 138 | 418 | 62 | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | | 113 | 269 | 40 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | | 24 | 396 | 429 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Floor | 19C-19cscsp | - | 1.08 | 0.28 | 65 | 70 | 18 | | 155 | 167 | 44 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | WAR | 51 | | WAR | 222 | | |
| | | Sensible Load (Btuh) | | 0.05 | | | | | | | | 29 | |
| | | Latent Load (Btuh) | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | | 0 | 0 | 0 | | 0 | 0 |
| | | b Scenario number | | | | | | 0 | | | | 0 | |
| | | c Default Adjustments | | | | | | | | | | | |
| | | d Custom Appliances | | | | | | 0 | 1000 | | | 0 | 0 |
| | | e Plants | | | | | | | 0 | | | 0 | 0 |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | | 296 | 46 | | | 1472 | 650 |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | 0.002 | | | 0 | 0 | | 0 | 0 | |
| | | ELG | | | | | | | | 0 | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | 136 | E Cfm | 136 | | | | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | | -5 | | | 46 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | | 296 | 46 | | | 1472 | 650 |

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

| 1 Name of Room | | | M. Bedroom | | | | Bedroom 2 | | | | | | |
|--|--|---------------------------------|----------------|------------|----------------|---------|----------------|-------|----------------|---------|-------|-------|--|
| 2 Running Feet of Exposed Wall | | | 40.3 ft | | | | 3.5 ft | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 10.0 ft | | 965.0 ft² | | 9.0 ft | | 688.5 ft² | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 1.0 x 360.8 ft | | 360.8 ft² | | 1.0 x 326.4 ft | | 326.4 ft² | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 360.8 ft² | | 0 ° | | 326.4 ft² | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 33 | 99 | 15 | | 32 | 41 | 6 | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 18 | 297 | 119 | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 143 | 306 | 45 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 18 | 297 | 379 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 24 | 396 | 582 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 228 | 400 | 59 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 96 | 1582 | 799 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 0 | 0 | 0 | 326 | 838 | 234 | | |
| | Floor | 19C-19cscsp | - | 1.08 | 0.28 | 264 | 284 | 75 | 0 | 0 | 0 | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 97 | 86 | 0 | 0 | 0 | 0 | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR | | 358 | | 28 | |
| | | Sensible Load (Btuh) | | 0.05 | | WAR | | 0.11 | | 47 | | 4 | |
| | | Latent Load (Btuh) | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 2 | | 460 | | 400 | | 1 | |
| | | b Scenario number | | | | | | 0 | | | | 230 | |
| | | c Default Adjustments | | | | | | 0 | | | | 0 | |
| | | d Custom Appliances | | | | | | 300 | | 300 | | 300 | |
| | | e Plants | | | | | | 0 | | 0 | | 0 | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | | 3808 | | 2507 | | 1203 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 0 | | 0 | | 7 | |
| | | ELG | | | | | | | | 0 | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | | | | | -255 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | | 3808 | | 2507 | | 1211 | |
| | | | | | | | | | | | | 815 | |

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

| 1 Name of Room | | | Clo 2 | | | | | | Upper Stair | | | | |
|--|--|---------------------------------|---------------|------------|----------------|----------|---------------|-------|----------------|---------|-------|-------|--|
| 2 Running Feet of Exposed Wall | | | 13.0 ft | | | | | | 0 ft | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 9.0 ft | | 279.0 ft² | | 9.0 ft | | 373.5 ft² | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 13.0 x 2.5 ft | | 32.5 ft² | | 6.0 x 14.8 ft | | 88.5 ft² | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 32.5 ft² | | 0 ° | | 88.5 ft² | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 117 | 356 | 53 | | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 33 | 83 | 23 | 89 | 227 | 63 | | |
| | Floor | 19C-19cssp | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR | | 104 | | 0 | |
| | | Sensible Load (Btuh) | | 0.05 | | WAR 0.03 | | 14 | | WAR 0 | | 0 | |
| | | Latent Load (Btuh) | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | | 0 | | 0 | | 0 | |
| | | b Scenario number | | | | 0 | | 0 | | 0 | | 0 | |
| | | c Default Adjustments | | | | | | | | | | | |
| | | d Custom Appliances | | | | 0 | | 1000 | | 0 | | 0 | |
| | | e Plants | | | | 0 | | 0 | | 0 | | 0 | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | 543 | | 81 | | 227 | | 58 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 3 | | 0 | | 1 | |
| | | ELG | | | | | | 0 | | | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | -8 | | | | -6 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | 547 | | 82 | | 229 | | 58 | |

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

| 1 Name of Room | | | Upper Bath | | | | | | Media/Den | | | | | | |
|--|--|---------------------------------|---------------|------------|----------------|---------|----------------|-------|----------------|---------|-------|-------|--|------|--|
| 2 Running Feet of Exposed Wall | | | 13.5 ft | | | | | | 19.5 ft | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 9.0 ft | | 378.0 ft² | | 9.0 ft | | 679.5 ft² | | | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 13.5 x 7.5 ft | | 101.3 ft² | | 1.0 x 288.4 ft | | 288.4 ft² | | | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 101.3 ft² | | 0 ° | | 288.4 ft² | | | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | | | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 0 | 0 | 0 | 176 | 242 | 36 | | | | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 32 | 527 | 212 | | | | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 64 | 1096 | 506 | | | | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 122 | 370 | 55 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 101 | 260 | 73 | 288 | 740 | 207 | | | | |
| | Floor | 19C-19cscsp | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 3 | 3 | 0 | 0 | 0 | 0 | | | | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR | | 108 | | WAR | | 156 | |
| | | Sensible Load (Btuh) | | | | 0.05 | | 0.03 | | | | 0.05 | | 21 | |
| | | Latent Load (Btuh) | | | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | | b Scenario number | | | | | | 0 | | | | 0 | | | |
| | | c Default Adjustments | | | | | | | | | | 1500 | | 1500 | |
| | | d Custom Appliances | | | | | | 0 | | | | 0 | | 0 | |
| | | e Plants | | | | | | | | | | 0 | | 0 | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | 741 | | 128 | | 2761 | | 2252 | | | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 5 | | 1 | | 17 | | 12 | |
| | | ELG | | | | | | | | 0 | | | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | | | | | | | -229 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | 745 | | 129 | | 2778 | | 2264 | | | |

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

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| 1 Name of Room | | | Clo 3 | | | | | | Clo 4 | | | |
|--|--|---------------------------------|--------------|------------|----------------|-----------|-------|-------|----------------|---------|-------|-------|
| 2 Running Feet of Exposed Wall | | | 0 ft | | | | | | 2.5 ft | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 9.0 ft | | | 184.5 ft² | | | 9.0 ft | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 2.5 x 7.8 ft | | | 19.4 ft² | | | 2.5 x 7.5 ft | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | | 19.4 ft² | | | 0 ° | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 0 | 0 | 0 | 23 | 68 | 10 | 0 |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 19 | 50 | 14 | 19 | 48 | 13 | 0 |
| | Floor | 19C-19cscsp | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR | 0 | WAR | 20 | 0 |
| | | Sensible Load (Btuh) | | 0.05 | | WAR | 0 | 0.01 | 0 | 3 | 0 | 0 |
| | | Latent Load (Btuh) | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | b Scenario number | | | | | 0 | | | 0 | | 0 |
| | | c Default Adjustments | | | | | | | | | | |
| | | d Custom Appliances | | | | | 0 | 1000 | | 0 | 1000 | 0 |
| | | e Plants | | | | | | 0 | | | | 0 |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | 50 | 13 | | 137 | 24 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | 0.002 | | 0 | 0 | | 1 | 0 | |
| | | ELG | | | | | | | 0 | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | 136 | E Cfm | 136 | | | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | | | | | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | 50 | 13 | | 138 | 24 | |

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

| 1 Name of Room | | | Bedroom 4 | | | | Bedroom 3 | | | | | | |
|--|--|---------------------------------|----------------|------------|----------------|----------|----------------|----------|----------------|---------|-------|-------|--|
| 2 Running Feet of Exposed Wall | | | 27.5 ft | | | | 29.8 ft | | | | | | |
| 3 Ceiling Ht (Ft) and Gross Wall Area (SqFt) | | | 9.0 ft | | 540.0 ft² | | 9.0 ft | | 535.5 ft² | | | | |
| 4 Room Dimensions (Ft) and Floor Plan Area (SqFt) | | | 1.0 x 202.3 ft | | 202.3 ft² | | 1.0 x 197.4 ft | | 197.4 ft² | | | | |
| 5 Ceiling Slope (Deg.) and Gross Ceiling Area (SqFt) | | | 0 ° | | 202.3 ft² | | 0 ° | | 197.4 ft² | | | | |
| Type of Exposure | Const. Number | Panel Faces | HTM | | Area or Length | Btuh | | | Area or Length | Btuh | | | |
| | | | Htg. | Clg. | | Heating | S-Clg | L-Clg | | Heating | S-Clg | L-Clg | |
| 6 | Wall | 12F-6sw | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 153 | 466 | 69 | |
| | Glaz | 2 glazing, dr low-e | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | Glaz | 2 glazing, dr low-e | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | e | 3.04 | 0.45 | 117 | 228 | 34 | 0 | 115 | 157 | 23 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 18 | 297 | 322 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 21.07 | 18 | 297 | 379 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 9 | 148 | 201 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.25 | 24 | 396 | 582 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 36 | 593 | 896 | |
| | Wall | 12F-6sw | s | 3.04 | 0.45 | 131 | 105 | 15 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | s | 16.48 | 8.33 | 96 | 1582 | 799 | 0 | 0 | 0 | 0 | |
| | Wall | 15A-15s3oc-10 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Door | 11J0 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12F-6sw | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Glaz | 2 glazing, dr low-e | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wall | 12C-0sw | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Door | 11J0 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Ceiling | Attic ceiling, mtl r | - | 2.57 | 0.72 | 202 | 519 | 145 | 0 | 197 | 507 | 141 | |
| | Floor | 19C-19cscsp | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Floor | 21B-32t | - | 0.89 | 0.00 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 12 | Infiltration | Heating Load (Btuh) | | Effect ACH | | 0.10 | | WAR 0.07 | | 220 | | 238 | |
| | | Sensible Load (Btuh) | | 0.05 | | WAR 0.07 | | 29 | | 31 | | | |
| | | Latent Load (Btuh) | | | | | | | | | | | |
| 13 | Internal | a Occupants at 230 and 200 Btuh | | | | 1 | | 230 | | 200 | | 1 | |
| | | b Scenario number | | | | 0 | | 0 | | 0 | | 0 | |
| | | c Default Adjustments | | | | 0 | | 0 | | 0 | | 0 | |
| | | d Custom Appliances | | | | 300 | | 300 | | 300 | | 300 | |
| | | e Plants | | | | 0 | | 0 | | 0 | | 0 | |
| 14 | Subtotals | Sum lines 6 through 12 | | | | | | 3350 | | 2282 | | 2406 | |
| 15 | Duct Loads | EHLF & ESGF | | 0.002 | | 0.002 | | 21 | | 12 | | 15 | |
| | | ELG | | | | | | 0 | | 0 | | 0 | |
| 16 | Ventilation Loads | Vent Cfm | | 136 | | E Cfm | | 136 | | | | | |
| 17 | Winter Humidification Load | Gal/Day | | 11.5 | | | | | | | | | |
| 18 | Piping Load | | | | | | | | | | | | |
| 19 | Blower Heat | | | | | | | | | | | | |
| 20 | AED Excursion & Latent Moisture Migration Load | | | | | | | -232 | | | | 207 | |
| 21 | Total Load | Sum lines 13 through 19 | | | | | | 3371 | | 2294 | | 2421 | |

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

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Information

| | Htg | Clg | Method | Infiltration | |
|-----------------------------|-----|-----|----------------------|--------------|------------|
| Outside db (°F) | 7 | 92 | | | |
| Inside db (°F) | 70 | 75 | Construction quality | | Simplified |
| Design TD (°F) | 63 | 17 | Fireplaces | | Tight |
| Daily range | - | H | | | 0 |
| Inside humidity (%) | 30 | 50 | | | |
| Moisture difference (gr/lb) | 32 | -36 | | | |

HEATING EQUIPMENT

| | |
|------------------|-------------|
| Make | |
| Trade | |
| Model | |
| AHRI ref | |
| Efficiency | 100 EFF |
| Heating input | 7.8 kW |
| Heating output | 26615 Btuh |
| Temperature rise | 0 °F |
| Actual air flow | 0 cfm |
| Air flow factor | 0 cfm/Btuh |
| Static pressure | 0.60 in H2O |
| Space thermostat | |

COOLING EQUIPMENT

| | |
|--------------------------|-------------|
| Make | |
| Trade | |
| Cond | |
| Coil | |
| AHRI ref | |
| Efficiency | 0 SEER |
| 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 | 0.60 in H2O |
| Load sensible heat ratio | 0.76 |

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|---------------|------------|-----------------|-----------------|---------------|---------------|
| Entry | 143 | 2837 | 522 | 0 | 0 |
| Pwdr | 62 | 813 | 67 | 0 | 0 |
| Stair | 34 | 1347 | 331 | 0 | 0 |
| Great Room | 408 | 15220 | 11584 | 0 | 0 |
| Kitchen | 195 | 1097 | 2081 | 0 | 0 |
| Dining | 219 | 1672 | 2098 | 0 | 0 |
| M. Entry Hall | 56 | 1460 | 698 | 0 | 0 |
| Main Stair | 129 | 1004 | 270 | 0 | 0 |
| Pantry | 64 | 381 | 57 | 0 | 0 |
| Utility | 48 | 50 | 466 | 0 | 0 |
| Main Pwdr | 60 | 62 | 14 | 0 | 0 |
| M. Clo | 65 | 296 | 46 | 0 | 0 |
| M. Bath | 155 | 1472 | 650 | 0 | 0 |
| M. Bedroom | 361 | 3808 | 2507 | 0 | 0 |

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

| | | | | | | |
|-------------------|---|------|-------|-------|---|---|
| Bedroom 2 | | 326 | 1211 | 815 | 0 | 0 |
| Clo 2 | | 33 | 547 | 82 | 0 | 0 |
| Upper Stair | | 89 | 229 | 58 | 0 | 0 |
| Upper Bath | | 101 | 745 | 129 | 0 | 0 |
| Media/Den | | 288 | 2778 | 2264 | 0 | 0 |
| Clo 3 | | 19 | 50 | 13 | 0 | 0 |
| Clo 4 | | 19 | 138 | 24 | 0 | 0 |
| Bedroom 4 | | 202 | 3371 | 2294 | 0 | 0 |
| Bedroom 3 | | 197 | 2421 | 2433 | 0 | 0 |
| <hr/> | | | | | | |
| 1st Floor | d | 3273 | 43008 | 29502 | 0 | 0 |
| Other equip loads | | | 12719 | 3747 | | |
| Equip. @ 1.00 RSM | | | | 33249 | | |
| Latent cooling | | | | 10590 | | |
| <hr/> | | | | | | |
| TOTALS | | 3273 | 55727 | 43839 | 0 | 0 |

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

Project Information

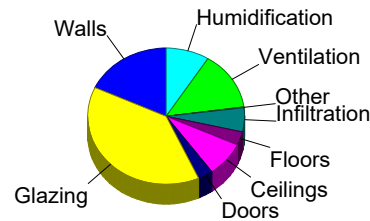
For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | |
|---|---|---|--|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces |
| | | Simplified Tight 0 | |

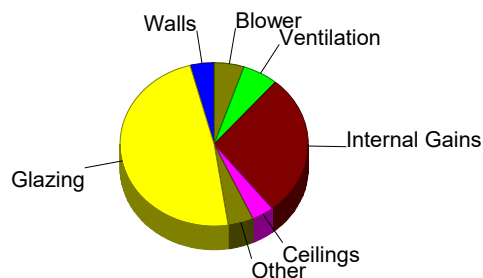
Heating

| Component | Btuh/ft² | Btuh | % of load |
|----------------|----------|--------------|--------------|
| Walls | 3.5 | 10077 | 18.1 |
| Glazing | 16.8 | 21586 | 38.7 |
| Doors | 38.0 | 1712 | 3.1 |
| Ceilings | 2.6 | 4560 | 8.2 |
| Floors | 1.0 | 1807 | 3.2 |
| Infiltration | 0.9 | 3191 | 5.7 |
| Ducts | | 75 | 0.1 |
| Piping | | 0 | 0 |
| Humidification | | 4970 | 8.9 |
| Ventilation | | 7748 | 13.9 |
| Adjustments | | 0 | |
| Total | | 55727 | 100.0 |



Cooling

| Component | Btuh/ft² | Btuh | % of load |
|----------------|----------|--------------|--------------|
| Walls | 0.5 | 1385 | 4.2 |
| Glazing | 12.4 | 16023 | 48.2 |
| Doors | 14.7 | 660 | 2.0 |
| Ceilings | 0.7 | 1273 | 3.8 |
| Floors | 0.2 | 345 | 1.0 |
| Infiltration | 0.1 | 420 | 1.3 |
| Ducts | | 45 | 0.1 |
| Ventilation | | 2041 | 6.1 |
| Internal gains | | 9350 | 28.1 |
| Blower | | 1707 | 5.1 |
| Adjustments | | 0 | |
| Total | | 33249 | 100.0 |



Latent Cooling Load = 10590 Btuh
 Overall U-value = 0.169 Btuh/ft²·°F

WARNING: window to floor area ratio = 39.3% - more than 25%.



J1 Form - Worksheet A
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14,2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| Supporting Detail | |
|--|---------------------------------|
| Project Name: 980 Wagonwheel Gap Rd. | Date: August 14,2018 |
| Address: 1511 N. Wahsatch Ave., Colorado Springs, CO 80907 | |
| Phone: 719-367-7329 | Job ID: 980 Wagonwheel Gap Road |

| Worksheet A | | | |
|--|--|-----------------|--|
| Location and Design Conditions | | | |
| Weather Location: Boulder, CO | Elevation = 5430 | Latitude = 40 | |
| Indoor Conditions, Heating: DB = 70 °F RH = 30 % | Indoor Conditions, Cooling: DB = 75 °F | RH = 50 % | |
| Table 1 Conditions 99% DB = 7 °F 1% DB = 92 °F | Grains Difference = -36 gr/lb | Daily Range = H | |
| Design Temperature Differences | HTD = 63 °F | CTD = 17 °F | |

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



Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|-----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 1078 | 0.048 | 27.0 | 3.04 | 3279 | 0.45 | 484 |
| | e | 316 | 0.048 | 27.0 | 3.04 | 961 | 0.45 | 142 |
| | s | 669 | 0.048 | 27.0 | 3.04 | 2035 | 0.45 | 300 |
| | w | 241 | 0.048 | 27.0 | 3.04 | 735 | 0.45 | 108 |
| | all | 2303 | 0.048 | 27.0 | 3.04 | 7010 | 0.45 | 1034 |
| 15A-15s3oc-10: Bg wall, light dry soil, empty core, concrete block wall, r-15 ins, 8" thk, 1/2" gypsum board int fnsh | n | 113 | 0.058 | 15.0 | 3.68 | 414 | 0 | 0 |
| | s | 89 | 0.058 | 15.0 | 3.64 | 322 | 0 | 0 |
| | all | 201 | 0.058 | 15.0 | 3.66 | 736 | 0 | 0 |
| Partitions | | | | | | | | |
| 12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud | | 404 | 0.091 | 13.0 | 5.77 | 2331 | 0.87 | 351 |
| Windows | | | | | | | | |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 48 | 0.300 | 0 | 19.0 | 913 | 5.93 | 285 |
| | n | 32 | 0.260 | 0 | 16.5 | 527 | 6.63 | 212 |
| | n | 64 | 0.270 | 0 | 17.1 | 1096 | 7.90 | 506 |
| | s | 320 | 0.260 | 0 | 16.5 | 5275 | 8.33 | 2664 |
| | s | 320 | 0.260 | 0 | 16.5 | 5275 | 8.33 | 2664 |
| | w | 117 | 0.260 | 0 | 16.5 | 1934 | 18.2 | 2137 |
| | w | 128 | 0.270 | 0 | 17.1 | 2191 | 24.2 | 3100 |
| | all | 1029 | 0.270 | 0 | 16.7 | 17211 | 11.2 | 11569 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 18 | 0.260 | 0 | 16.5 | 297 | 6.63 | 119 |
| | n | 48 | 0.290 | 0 | 18.4 | 883 | 8.20 | 394 |
| | e | 18 | 0.260 | 0 | 16.5 | 297 | 21.1 | 379 |
| | e | 24 | 0.260 | 0 | 16.5 | 396 | 24.2 | 582 |
| | e | 18 | 0.260 | 0 | 16.5 | 297 | 17.9 | 322 |
| | e | 24 | 0.260 | 0 | 16.5 | 396 | 17.9 | 429 |
| | e | 18 | 0.260 | 0 | 16.5 | 297 | 21.1 | 379 |
| | e | 24 | 0.260 | 0 | 16.5 | 396 | 24.2 | 582 |
| | all | 192 | 0.260 | 0 | 17.0 | 3256 | 16.6 | 3187 |

| | | | | | | | | |
|--|---|----|-------|---|------|-----|------|-----|
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (2.5 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 21 | 0.280 | 0 | 17.8 | 377 | 8.05 | 171 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 9 | 0.260 | 0 | 16.5 | 148 | 22.4 | 201 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (9 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 36 | 0.260 | 0 | 16.5 | 593 | 24.9 | 896 |

Doors

| | | | | | | | | |
|----------------------------|-----|----|-------|-----|------|------|------|-----|
| 11J0: Door, mtl fbrgl type | s | 24 | 0.600 | 6.3 | 38.0 | 913 | 14.7 | 352 |
| | n | 21 | 0.600 | 6.3 | 38.0 | 799 | 14.7 | 308 |
| | all | 45 | 0.600 | 6.3 | 38.0 | 1712 | 14.7 | 660 |

Ceilings

| | | | | | | | | |
|--|--|------|-------|------|------|------|------|------|
| Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 1777 | 0.408 | 54.0 | 2.57 | 4560 | 0.72 | 1273 |
|--|--|------|-------|------|------|------|------|------|

Floors

| | | | | | | | | |
|---|-----|------|-------|------|------|------|------|-----|
| 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul | | 1217 | 0.049 | 30.0 | 1.08 | 1310 | 0.28 | 345 |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 239 | 0.014 | 3.0 | 0.89 | 212 | 0 | 0 |
| | | 313 | 0.014 | 3.0 | 0.89 | 278 | 0 | 0 |
| | | 8 | 0.014 | 3.0 | 0.89 | 7 | 0 | 0 |
| | all | 560 | 0.014 | 3.0 | 0.89 | 497 | 0 | 0 |





Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 15A-15s3oc-10: Bg wall, light dry soil, empty core, concrete block wall, r-15 ins, 8" thk, 1/2" gypsum board int fnsh | s | 89 | 0.058 | 15.0 | 3.64 | 322 | 0 | 0 |
| Partitions | | | | | | | | |
| 12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud | | 255 | 0.091 | 13.0 | 5.77 | 1471 | 0.87 | 222 |
| Windows | | | | | | | | |
| (none) | | | | | | | | |
| Doors | | | | | | | | |
| 11J0: Door, mtl fbrgl type | s | 24 | 0.600 | 6.3 | 38.0 | 913 | 14.7 | 352 |
| Ceilings | | | | | | | | |
| (none) | | | | | | | | |
| Floors | | | | | | | | |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 143 | 0.014 | 3.0 | 0.89 | 127 | 0 | 0 |





Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft² | U-value Btuh/ft²·°F | Insul R ft²·°F/Btuh | Htg HTM Btuh/ft² | Loss Btuh | Clg HTM Btuh/ft² | Gain Btuh |
|---|----|-------------|------------------------|------------------------|---------------------|--------------|---------------------|--------------|
| Walls 15A-15s3oc-10: Bg wall, light dry soil, empty core, concrete block wall, r-15 ins, 8" thk, 1/2" gypsum board int fnsh | n | 73 | 0.058 | 15.0 | 3.68 | 267 | 0 | 0 |
| Partitions 12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud | | 85 | 0.091 | 13.0 | 5.77 | 490 | 0.87 | 74 |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 62 | 0.014 | 3.0 | 0.89 | 55 | 0 | 0 |





1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 15A-15s3oc-10: Bg wall, light dry soil, empty core, concrete block wall, r-15 ins, 8" thk, 1/2" gypsum board int fnsh | n | 40 | 0.058 | 15.0 | 3.68 | 147 | 0 | 0 |
| Partitions | | | | | | | | |
| 12C-0sw: Frm wall, stucco ext, r-13 cav ins, 2"x4" wood frm, 16" o.c. stud | | 64 | 0.091 | 13.0 | 5.77 | 369 | 0.87 | 56 |
| Windows | | | | | | | | |
| (none) | | | | | | | | |
| Doors | | | | | | | | |
| 11J0: Door, mtl fbrgl type | n | 21 | 0.600 | 6.3 | 38.0 | 799 | 14.7 | 308 |
| Ceilings | | | | | | | | |
| (none) | | | | | | | | |
| Floors | | | | | | | | |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 34 | 0.014 | 3.0 | 0.89 | 30 | 0 | 0 |

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | |
|---|---|---|--|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces |
| | | Simplified Tight 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|-----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 254 | 0.048 | 27.0 | 3.04 | 772 | 0.45 | 114 |
| | s | 184 | 0.048 | 27.0 | 3.04 | 561 | 0.45 | 83 |
| | w | 241 | 0.048 | 27.0 | 3.04 | 735 | 0.45 | 108 |
| | all | 679 | 0.048 | 27.0 | 3.04 | 2068 | 0.45 | 305 |

Partitions (none)

Windows

| | | | | | | | | |
|--|-----|-----|-------|---|------|------|------|------|
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | s | 224 | 0.260 | 0 | 16.5 | 3692 | 8.33 | 1865 |
| | s | 96 | 0.260 | 0 | 16.5 | 1582 | 8.33 | 799 |
| | w | 117 | 0.260 | 0 | 16.5 | 1934 | 18.2 | 2137 |
| | w | 128 | 0.270 | 0 | 17.1 | 2191 | 24.2 | 3100 |
| | all | 565 | 0.270 | 0 | 16.6 | 9400 | 14.0 | 7902 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 48 | 0.290 | 0 | 18.4 | 883 | 8.20 | 394 |

Doors (none)

Ceilings

| | | | | | | | |
|--|-----|-------|------|------|------|------|-----|
| Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | 502 | 0.408 | 54.0 | 2.57 | 1288 | 0.72 | 360 |
|--|-----|-------|------|------|------|------|-----|

Floors

| | | | | | | | |
|---|-----|-------|------|------|-----|------|----|
| 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul | 329 | 0.049 | 30.0 | 1.08 | 355 | 0.28 | 93 |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | 88 | 0.014 | 3.0 | 0.89 | 78 | 0 | 0 |

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² °F | Insul R ft ² ·F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|----|-------------------------|------------------------------------|------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 141 | 0.048 | 27.0 | 3.04 | 430 | 0.45 | 63 |
| Partitions (none) | | | | | | | | |
| Windows 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (2.5 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 21 | 0.280 | 0 | 17.8 | 377 | 8.05 | 171 |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cwl ovr, r-11 wall insul | | 135 | 0.049 | 30.0 | 1.08 | 145 | 0.28 | 38 |

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | |
|---|---------------------------------------|---|--|---|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces | |
| | | | Simplified Tight 0 | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | s | 99 | 0.048 | 27.0 | 3.04 | 300 | 0.45 | 44 |
| Partitions (none) | | | | | | | | |
| Windows 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | s | 64 | 0.260 | 0 | 16.5 | 1055 | 8.33 | 533 |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul | | 104 | 0.049 | 30.0 | 1.08 | 112 | 0.28 | 30 |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 69 | 0.014 | 3.0 | 0.89 | 61 | 0 | 0 |



Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | | | |
|------------------|-------------|-----------------------------|-------------------------|----------------|------------|----------------|-------|
| Location: | Boulder, CO | Indoor: | Indoor temperature (°F) | Heating | 70 | Cooling | 75 |
| Elevation: | 5430 ft | Design TD (°F) | 63 | | 63 | | 17 |
| Latitude: | 40°N | Relative humidity (%) | 30 | | 30 | | 50 |
| Outdoor: | | Moisture difference (gr/lb) | 32.4 | | 32.4 | | -36.3 |
| Heating | | Infiltration: | | | | | |
| Dry bulb (°F) | 7 | Method | | | Simplified | | |
| Daily range (°F) | - | Construction quality | | | Tight | | |
| Wet bulb (°F) | - | Fireplaces | | | 0 | | |
| Wind speed (mph) | 15.0 | | | | | | |
| Cooling | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Construction descriptions

| | Or | Area ft² | U-value Btuh/ft²·°F | Insul R ft²·°F/Btuh | Htg HTM Btuh/ft² | Loss Btuh | Clg HTM Btuh/ft² | Gain Btuh |
|--|----|-------------|------------------------|------------------------|---------------------|--------------|---------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | s | 76 | 0.048 | 27.0 | 3.04 | 231 | 0.45 | 34 |
| Partitions (none) | | | | | | | | |
| Windows 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | s | 64 | 0.260 | 0 | 16.5 | 1055 | 8.33 | 533 |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 56 | 0.014 | 3.0 | 0.89 | 50 | 0 | 0 |



Project Information

For: Bernard Lam, Same
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 Phone: 719-367-7329

Design Conditions

| | | | |
|---|---|---|--|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces |
| | | Simplified Tight 0 | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 12 | 0.048 | 27.0 | 3.04 | 37 | 0.45 | 5 |
| Partitions (none) | | | | | | | | |
| Windows 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 48 | 0.300 | 0 | 19.0 | 913 | 5.93 | 285 |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 2 | 0.014 | 3.0 | 0.89 | 1 | 0 | 0 |



Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | | | |
|------------------|-------------|-----------------------------|-------------------------|----------------|------------|----------------|-------|
| Location: | Boulder, CO | Indoor: | Indoor temperature (°F) | Heating | 70 | Cooling | 75 |
| Elevation: | 5430 ft | Design TD (°F) | 63 | | 63 | | 17 |
| Latitude: | 40°N | Relative humidity (%) | 30 | | 30 | | 50 |
| Outdoor: | | Moisture difference (gr/lb) | 32.4 | | 32.4 | | -36.3 |
| Heating | | Infiltration: | | | | | |
| Dry bulb (°F) | 7 | Method | | | Simplified | | |
| Daily range (°F) | - | Construction quality | | | Tight | | |
| Wet bulb (°F) | - | Fireplaces | | | 0 | | |
| Wind speed (mph) | 15.0 | | | | | | |
| Cooling | | | | | | | |
| | | (H) | | | | | |
| | | | | | | | |
| | | | | | | | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 80 | 0.048 | 27.0 | 3.04 | 243 | 0.45 | 36 |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul | | 62 | 0.049 | 30.0 | 1.08 | 67 | 0.28 | 18 |



1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | | | |
|------------------|--------------------|----------------|-----------------------------|----------------------|------------|----------------|-------|
| Location: | Boulder, CO | Indoor: | Indoor temperature (°F) | Heating | 70 | Cooling | 75 |
| | Elevation: 5430 ft | | Design TD (°F) | | 63 | | 17 |
| | Latitude: 40°N | | Relative humidity (%) | | 30 | | 50 |
| Outdoor: | | | Moisture difference (gr/lb) | | 32.4 | | -36.3 |
| | | Heating | Infiltration: | | | | |
| | Dry bulb (°F) | 7 | 92 | Method | Simplified | | |
| | Daily range (°F) | - | 28 (H) | Construction quality | Tight | | |
| | Wet bulb (°F) | - | 60 | Fireplaces | 0 | | |
| | Wind speed (mph) | 15.0 | 7.5 | | | | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² -°F | Insul R ft ² -F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|----|-------------------------|-------------------------------------|------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls (none) | | | | | | | | |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul | | 47 | 0.049 | 30.0 | 1.08 | 50 | 0.28 | 13 |



Project Information

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Design Conditions

| | | | | | | |
|--------------------|----------------|----------------|--|-----------------------------|----------------|----------------|
| Location: | | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | | Relative humidity (%) | 30 | 50 |
| | | | | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Outdoor: | Heating | Cooling | | Infiltration: | | |
| Dry bulb (°F) | 7 | 92 | | Method | Simplified | |
| Daily range (°F) | - | 28 (H) | | Construction quality | Tight | |
| Wet bulb (°F) | - | 60 | | Fireplaces | 0 | |
| Wind speed (mph) | 15.0 | 7.5 | | | | |

Construction descriptions

| | Or | Area ft² | U-value Btuh/ft²·°F | Insul R ft²·°F/Btuh | Htg HTM Btuh/ft² | Loss Btuh | Clg HTM Btuh/ft² | Gain Btuh |
|---|----|-------------|------------------------|------------------------|---------------------|--------------|---------------------|--------------|
| Walls (none) | | | | | | | | |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors | | | | | | | | |
| 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul | | 56 | 0.049 | 30.0 | 1.08 | 61 | 0.28 | 16 |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 2 | 0.014 | 3.0 | 0.89 | 2 | 0 | 0 |



Project Information

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 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
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Design Conditions

| | | | | | | | |
|------------------|-------------|-----------------------------|-------------------------|----------------|------------|----------------|-------|
| Location: | Boulder, CO | Indoor: | Indoor temperature (°F) | Heating | 70 | Cooling | 75 |
| Elevation: | 5430 ft | Design TD (°F) | 63 | | 63 | | 17 |
| Latitude: | 40°N | Relative humidity (%) | 30 | | 30 | | 50 |
| Outdoor: | | Moisture difference (gr/lb) | 32.4 | | 32.4 | | -36.3 |
| Heating | | Infiltration: | | | | | |
| Dry bulb (°F) | 7 | Method | | | Simplified | | |
| Daily range (°F) | - | Construction quality | | | Tight | | |
| Wet bulb (°F) | - | Fireplaces | | | 0 | | |
| Wind speed (mph) | 15.0 | | | | | | |
| Cooling | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² -°F | Insul R ft ² -°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 58 | 0.048 | 27.0 | 3.04 | 175 | 0.45 | 26 |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight crwl ovr, r-11 wall insul | | 65 | 0.049 | 30.0 | 1.08 | 70 | 0.28 | 18 |

Project Information

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 Phone: 719-367-7329

Design Conditions

| | | | | |
|---|---------------------------------------|---|--|---|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces | |
| | | | Simplified Tight 0 | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² °F | Insul R ft ² °F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|-----|-------------------------|------------------------------------|------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 138 | 0.048 | 27.0 | 3.04 | 418 | 0.45 | 62 |
| | e | 89 | 0.048 | 27.0 | 3.04 | 269 | 0.45 | 40 |
| | all | 226 | 0.048 | 27.0 | 3.04 | 688 | 0.45 | 101 |
| Partitions (none) | | | | | | | | |
| Windows | | | | | | | | |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 24 | 0.260 | 0 | 16.5 | 396 | 17.9 | 429 |
| Doors (none) | | | | | | | | |
| Ceilings (none) | | | | | | | | |
| Floors | | | | | | | | |
| 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cwl ovr, r-11 wall insul | | 155 | 0.049 | 30.0 | 1.08 | 167 | 0.28 | 44 |

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | | |
|---|---------------------------------------|---|--|---|--|---|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | | | | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces | Simplified Tight 0 | | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|-----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 33 | 0.048 | 27.0 | 3.04 | 99 | 0.45 | 15 |
| | e | 101 | 0.048 | 27.0 | 3.04 | 306 | 0.45 | 45 |
| | s | 132 | 0.048 | 27.0 | 3.04 | 400 | 0.45 | 59 |
| | all | 265 | 0.048 | 27.0 | 3.04 | 805 | 0.45 | 119 |

Partitions (none)

Windows

| | | | | | | | | |
|--|-----|----|-------|---|------|------|------|-----|
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | s | 96 | 0.260 | 0 | 16.5 | 1582 | 8.33 | 799 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 18 | 0.260 | 0 | 16.5 | 297 | 21.1 | 379 |
| | e | 24 | 0.260 | 0 | 16.5 | 396 | 24.2 | 582 |
| | all | 42 | 0.260 | 0 | 16.5 | 692 | 22.9 | 961 |

Doors (none)

Ceilings (none)

Floors

| | | | | | | | |
|---|-----|-------|------|------|-----|------|----|
| 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19 cav ins, tight cowl ovr, r-11 wall insul | 264 | 0.049 | 30.0 | 1.08 | 284 | 0.28 | 75 |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | 97 | 0.014 | 3.0 | 0.89 | 86 | 0 | 0 |

Project Information

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 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² -°F | Insul R ft ² -F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|----|-------------------------|-------------------------------------|------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw. Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 14 | 0.048 | 27.0 | 3.04 | 41 | 0.45 | 6 |
| Partitions (none) | | | | | | | | |
| Windows 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 18 | 0.260 | 0 | 16.5 | 297 | 6.63 | 119 |
| Doors (none) | | | | | | | | |
| Ceilings Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 326 | 0.408 | 54.0 | 2.57 | 838 | 0.72 | 234 |
| Floors (none) | | | | | | | | |



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 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| | | | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Outdoor: | Heating | Cooling | Infiltration: | | |
| Dry bulb (°F) | 7 | 92 | Method | Simplified | |
| Daily range (°F) | - | 28 (H) | Construction quality | Tight | |
| Wet bulb (°F) | - | 60 | Fireplaces | 0 | |
| Wind speed (mph) | 15.0 | 7.5 | | | |

Construction descriptions

| | Or | Area ft² | U-value Btuh/ft²·°F | Insul R ft²·°F/Btuh | Htg HTM Btuh/ft² | Loss Btuh | Clg HTM Btuh/ft² | Gain Btuh |
|---|----|-------------|------------------------|------------------------|---------------------|--------------|---------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 117 | 0.048 | 27.0 | 3.04 | 356 | 0.45 | 53 |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 33 | 0.408 | 54.0 | 2.57 | 83 | 0.72 | 23 |
| Floors (none) | | | | | | | | |



Project Information

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 Phone: 719-367-7329

Design Conditions

| | | | | |
|---|---------------------------------------|---|--|---|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces | |
| | | | Simplified Tight 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² -°F | Insul R ft ² -°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls (none) | | | | | | | | |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 89 | 0.408 | 54.0 | 2.57 | 227 | 0.72 | 63 |
| Floors (none) | | | | | | | | |



Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | | | |
|------------------|-------------|-----------------------------|-------------------------|----------------|------------|----------------|-------|
| Location: | Boulder, CO | Indoor: | Indoor temperature (°F) | Heating | 70 | Cooling | 75 |
| Elevation: | 5430 ft | Design TD (°F) | 63 | | 63 | | 17 |
| Latitude: | 40°N | Relative humidity (%) | 30 | | 30 | | 50 |
| Outdoor: | | Moisture difference (gr/lb) | 32.4 | | 32.4 | | -36.3 |
| Heating | | Infiltration: | | | | | |
| Dry bulb (°F) | 7 | Method | | | Simplified | | |
| Daily range (°F) | - | Construction quality | | | Tight | | |
| Wet bulb (°F) | - | Fireplaces | | | 0 | | |
| Wind speed (mph) | 15.0 | | | | | | |
| Cooling | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Construction descriptions

| | Or | Area ft² | U-value Btuh/ft²·°F | Insul R ft²·°F/Btuh | Htg HTM Btuh/ft² | Loss Btuh | Clg HTM Btuh/ft² | Gain Btuh |
|---|----|-------------|------------------------|------------------------|---------------------|--------------|---------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | s | 122 | 0.048 | 27.0 | 3.04 | 370 | 0.45 | 55 |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 101 | 0.408 | 54.0 | 2.57 | 260 | 0.72 | 73 |
| Floors 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 3 | 0.014 | 3.0 | 0.89 | 3 | 0 | 0 |



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Design Conditions

| | | | | |
|---|---------------------------------------|---|--|---|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces | |
| | | Simplified Tight 0 | | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² -°F | Insul R ft ² -F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|-----|-------------------------|-------------------------------------|------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 12F-6sw. Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 80 | 0.048 | 27.0 | 3.04 | 242 | 0.45 | 36 |
| Partitions | | | | | | | | |
| (none) | | | | | | | | |
| Windows | | | | | | | | |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | n | 32 | 0.260 | 0 | 16.5 | 527 | 6.63 | 212 |
| | n | 64 | 0.270 | 0 | 17.1 | 1096 | 7.90 | 506 |
| | all | 96 | 0.270 | 0 | 16.9 | 1623 | 7.48 | 718 |
| Doors | | | | | | | | |
| (none) | | | | | | | | |
| Ceilings | | | | | | | | |
| Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 288 | 0.408 | 54.0 | 2.57 | 740 | 0.72 | 207 |
| Floors | | | | | | | | |
| (none) | | | | | | | | |



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Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² °F | Insul R ft ² °F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|------------------------------------|------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls (none) | | | | | | | | |
| Partitions (none) | | | | | | | | |
| Windows (none) | | | | | | | | |
| Doors (none) | | | | | | | | |
| Ceilings Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 19 | 0.408 | 54.0 | 2.57 | 50 | 0.72 | 14 |
| Floors (none) | | | | | | | | |





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Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|----------------|-----------------------------|----------------|----------------|
| Location: | | | Indoor: | Heating | Cooling |
| Boulder, CO | | | Indoor temperature (°F) | 70 | 75 |
| Elevation: 5430 ft | | | Design TD (°F) | 63 | 17 |
| Latitude: 40°N | | | Relative humidity (%) | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | Method | Simplified | |
| Wet bulb (°F) | - | 60 | Construction quality | Tight | |
| Wind speed (mph) | 15.0 | 7.5 | Fireplaces | 0 | |

Construction descriptions

| | Or | Area ft ² | U-value Btuh/ft ² -°F | Insul R ft ² -°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls | | | | | | | | |
| 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | s | 23 | 0.048 | 27.0 | 3.04 | 68 | 0.45 | 10 |
| Partitions | | | | | | | | |
| (none) | | | | | | | | |
| Windows | | | | | | | | |
| (none) | | | | | | | | |
| Doors | | | | | | | | |
| (none) | | | | | | | | |
| Ceilings | | | | | | | | |
| Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | 19 | 0.408 | 54.0 | 2.57 | 48 | 0.72 | 13 |
| Floors | | | | | | | | |
| 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | 1 | 0.014 | 3.0 | 0.89 | 1 | 0 | 0 |

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 Phone: 719-367-7329

Design Conditions

| | | | |
|---|---|---|--|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces |
| | | Simplified Tight 0 | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|--|-----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw: Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | e | 75 | 0.048 | 27.0 | 3.04 | 228 | 0.45 | 34 |
| | s | 35 | 0.048 | 27.0 | 3.04 | 105 | 0.45 | 15 |
| | all | 110 | 0.048 | 27.0 | 3.04 | 333 | 0.45 | 49 |
| Partitions (none) | | | | | | | | |
| Windows 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (8 ft window ht, 1 ft sep.); 6.67 ft head ht | s | 96 | 0.260 | 0 | 16.5 | 1582 | 8.33 | 799 |
| | e | 18 | 0.260 | 0 | 16.5 | 297 | 21.1 | 379 |
| | all | 24 | 0.260 | 0 | 16.5 | 396 | 24.2 | 582 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 42 | 0.260 | 0 | 16.5 | 692 | 22.9 | 961 |
| | all | 42 | 0.260 | 0 | 16.5 | 692 | 22.9 | 961 |
| Doors (none) | | | | | | | | |
| Ceilings Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | | | | | | | | |
| | | 202 | 0.408 | 54.0 | 2.57 | 519 | 0.72 | 145 |
| Floors 21B-32t: Bg floor, heavy dry or light damp soil, full ext ins cov, 10' depth, r-10 ins | | | | | | | | |
| | | 4 | 0.014 | 3.0 | 0.89 | 3 | 0 | 0 |

Project Information

For: Bernard Lam, Same
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 Phone: 719-367-7329

Design Conditions

| | | | | |
|---|---------------------------------------|---|--|---|
| Location: Boulder, CO Elevation: 5430 ft Latitude: 40°N | | Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) | Heating 70 63 30 32.4 | Cooling 75 17 50 -36.3 |
| Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph) | Heating 7 - - 15.0 | Cooling 92 28 (H) 60 7.5 | Infiltration: Method Construction quality Fireplaces | |
| | | | Simplified Tight 0 | |

Construction descriptions

| Construction descriptions | Or | Area ft ² | U-value Btuh/ft ² ·°F | Insul R ft ² ·°F/Btuh | Htg HTM Btuh/ft ² | Loss Btuh | Clg HTM Btuh/ft ² | Gain Btuh |
|---|-----|-------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------|---------------------------------|--------------|
| Walls 12F-6sw. Frm wall, wd ext, 1/2" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, r-10 ext bd ins, 2"x6" wood frm, 16" o.c. stud | n | 153 | 0.048 | 27.0 | 3.04 | 466 | 0.45 | 69 |
| | e | 52 | 0.048 | 27.0 | 3.04 | 157 | 0.45 | 23 |
| | all | 205 | 0.048 | 27.0 | 3.04 | 623 | 0.45 | 92 |

Partitions (none)

Windows

| | | | | | | | | |
|--|---|----|-------|---|------|-----|------|-----|
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (6 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 18 | 0.260 | 0 | 16.5 | 297 | 17.9 | 322 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (3 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 9 | 0.260 | 0 | 16.5 | 148 | 22.4 | 201 |
| 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 50% blinds 45°, light; 50% outdoor insect screen; 2 ft overhang (9 ft window ht, 1 ft sep.); 6.67 ft head ht | e | 36 | 0.260 | 0 | 16.5 | 593 | 24.9 | 896 |

Doors (none)

Ceilings

| | | | | | | | |
|--|-----|-------|------|------|-----|------|-----|
| Attic ceiling, mtl roof mat, r-35 roof ins, 1/2" gypsum board int fnsh | 197 | 0.408 | 54.0 | 2.57 | 507 | 0.72 | 141 |
|--|-----|-------|------|------|-----|------|-----|

Floors (none)





Project Summary
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
 Date: August 14, 2018
 By: Buddy High
 Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

Project Information

For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Notes: 980 Wagonwheel Gap Road

Design Information

Weather: Boulder, CO

Winter Design Conditions

Outside db 7 °F
 Inside db 70 °F
 Design TD 63 °F

Summer Design Conditions

Outside db 92 °F
 Inside db 75 °F
 Design TD 17 °F
 Daily range H
 Relative humidity 50 %
 Moisture difference -36 gr/lb

Heating Summary

Structure 42933 Btuh
 Ducts 75 Btuh
 Central vent (136 cfm) 7748 Btuh
 Outside air
 Humidification 4970 Btuh
 Piping 0 Btuh
 Equipment load 55727 Btuh

Sensible Cooling Equipment Load Sizing

Structure 29457 Btuh
 Ducts 45 Btuh
 Central vent (136 cfm) 2041 Btuh
 Outside air
 Blower 1707 Btuh
 Use manufacturer's data y
 Rate/swing multiplier 1.00
 Equipment sensible load 33249 Btuh

Infiltration

Method Simplified
 Construction quality Tight
 Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 13335 Btuh
 Ducts 0 Btuh
 Central vent (136 cfm) -2745 Btuh
 Outside air
 Equipment latent load 10590 Btuh

| | Heating | Cooling |
|---------------------------|---------|---------|
| Area (ft ²) | 3273 | 3273 |
| Volume (ft ³) | 33528 | 33528 |
| Air changes/hour | 0.10 | 0.05 |
| Equiv. AVF (cfm) | 56 | 28 |

Equipment Total Load (Sen+Lat) 43839 Btuh
 Req. total capacity at 0.76 SHR 3.6 ton

Heating Equipment Summary

Make
 Trade
 Model
 AHRI ref
 Efficiency 100 EFF
 Heating input 7.8 kW
 Heating output 26615 Btuh
 Temperature rise 0 °F
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0.60 in H2O
 Space thermostat

Cooling Equipment Summary

Make
 Trade
 Cond
 Coil
 AHRI ref
 Efficiency 0 SEER
 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 0.60 in H2O
 Load sensible heat ratio 0.76

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



Project Information

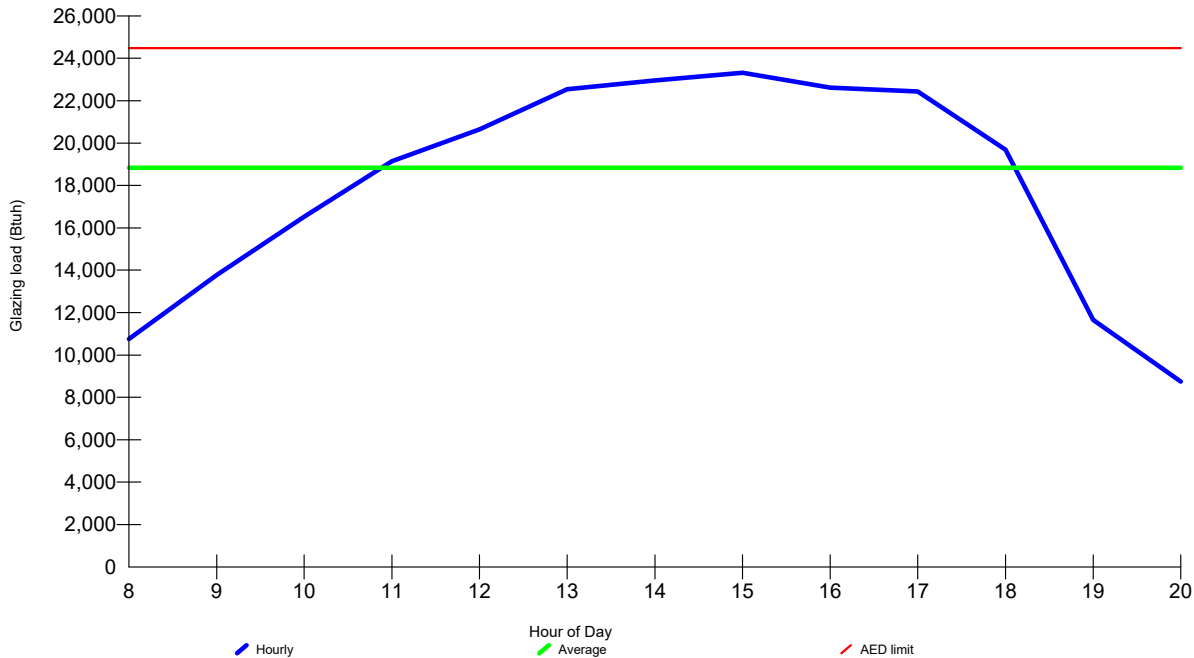
For: Bernard Lam, Same
 1511 N. Wahsatch Ave., Colorado Springs, CO 80907
 Phone: 719-367-7329

Design Conditions

| | | | | | |
|--------------------|----------------|-------------------------|-----------------------------|----------------|----------------|
| Location: | | Indoor: | | Heating | Cooling |
| Boulder, CO | | Indoor temperature (°F) | | 70 | 75 |
| Elevation: 5430 ft | | Design TD (°F) | | 63 | 17 |
| Latitude: 40°N | | Relative humidity (%) | | 30 | 50 |
| Outdoor: | Heating | Cooling | Moisture difference (gr/lb) | 32.4 | -36.3 |
| Dry bulb (°F) | 7 | 92 | Infiltration: | | |
| Daily range (°F) | - | 28 (H) | | | |
| Wet bulb (°F) | - | 60 | | | |
| Wind speed (mph) | 15.0 | 7.5 | | | |

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 23.8%.

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

AED excursion: 0 Btuh

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | Room name | | 1st Floor | | Entry | | | | | | | | |
|----|--------------------------|----------------------|-----------------------|-----------|----------------|----------------|------------------------------|-------|-------------|-------|------------------------------|-------|-------------|------|
| 1 | Room name | | | 320.8 ft | | 11.3 ft | | | | | | | | |
| 2 | Exposed wall | | | 11.0 ft | | 10.0 ft | | | | | | | | |
| 3 | Room height | | | d | | heat/cool | | | | | | | | |
| 4 | Room dimensions | | | 327.3 ft² | | 11.3 x 12.8 ft | | | | | | | | |
| 5 | Room area | | | | | 143.4 ft² | | | | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 1309 | 1078 | 3279 | 484 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 48 | 0 | 913 | 285 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 18 | 0 | 297 | 119 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 32 | 0 | 527 | 212 | 0 | 0 | 0 | 0 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 64 | 0 | 1096 | 506 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 21 | 0 | 377 | 171 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 48 | 0 | 883 | 394 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 113 | 113 | 414 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 487 | 316 | 961 | 142 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 18 | 2 | 297 | 379 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 24 | 2 | 396 | 582 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 18 | 2 | 297 | 322 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 24 | 2 | 396 | 429 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 18 | 2 | 297 | 379 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 9 | 2 | 148 | 201 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 24 | 2 | 396 | 582 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 36 | 2 | 593 | 896 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 1309 | 669 | 2035 | 300 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 320 | 168 | 5275 | 2664 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 320 | 168 | 5275 | 2664 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 113 | 89 | 322 | 0 | 113 | 89 | 322 | 0 |
| | D | 11J0 | 0.600 | s | 38.04 | 14.67 | 24 | 24 | 913 | 352 | 24 | 24 | 913 | 352 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 487 | 241 | 735 | 108 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 117 | 9 | 1934 | 2137 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 128 | 10 | 2191 | 3100 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 425 | 404 | 2331 | 351 | 255 | 255 | 1471 | 222 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 21 | 21 | 799 | 308 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 1777 | 1777 | 4560 | 1273 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 1217 | 1217 | 1310 | 345 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 239 | 239 | 212 | 0 | 143 | 143 | 127 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 313 | 313 | 278 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 8 | 8 | 7 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | 0 | | | | -53 |
| | Envelope loss/gain | | | | | | | | 39742 | 19687 | | | 2834 | 521 |
| 12 | a) Infiltration | | | | | | | | 3191 | 420 | | | 0 | 0 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | 230 | | 5 | | | 1150 | 0 | | | 0 | 0 |
| | | | Appliances/other | | | | | | 8200 | | | | 0 | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 42933 | 29457 | | | 2834 | 521 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 42933 | 29457 | | | 2834 | 521 |
| 15 | Duct loads | | | | | | | | 75 | 45 | 0% | 0% | 3 | 1 |
| | Total room load | | | | | | | | 43008 | 29502 | | | 2837 | 522 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

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| 1 | Room name | | | | Pwdr | | | | Stair | | | | | |
|----|---------------------------------|----------------------|-----------------------|----|----------------|-------|------------------------------|-------|--------------|------|------------------------------|-------|-------------|------|
| | Exposed wall | | | | 7.3 ft | | | | 4.0 ft | | | | | |
| | Room height | | | | 10.0 ft | | | | 10.0 ft | | | | | |
| 3 | Room dimensions | | | | 7.3 x 8.5 ft | | | | 7.3 x 8.5 ft | | | | | |
| 4 | Room area | | | | 61.6 ft² | | | | 34.0 ft² | | | | | |
| 5 | | | | | | | | | | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 73 | 73 | 267 | 0 | 40 | 40 | 147 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 85 | 85 | 490 | 74 | 85 | 64 | 369 | 56 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 21 | 21 | 799 | 308 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 62 | 62 | 55 | 0 | 34 | 34 | 30 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 812 | 67 | | | 1345 | 330 |
| 12 | a) Infiltration | | | | | | | | 0 | 0 | | | 0 | 0 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: Occupants @ 230 | | | | | | 0 | | 0 | 0 | | | 0 | 0 |
| | Appliances/other | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 812 | 67 | | | 1345 | 330 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 812 | 67 | | | 1345 | 330 |
| 15 | Duct loads | | | | | | 0% | 0% | 1 | 0 | 0% | 0% | 1 | 1 |
| | Total room load | | | | | | | | 813 | 67 | | | 1347 | 331 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | Great Room | | Kitchen | | | | | | | | | | |
|----|--------------------------|------------------------|-----------------------|---------|----------------|------------------------|------------------------------|-------|-------------|-------|------------------------------|-------|-------------|------|
| 1 | Room name | 20.9 ft 16.0 x 25.5 ft | | | | 10.0 ft 16.3 x 12.0 ft | | | | | | | | |
| 2 | Exposed wall | 57.5 ft | | | | 16.3 ft | | | | | | | | |
| 3 | Room height | heat/cool | | | | heat/cool | | | | | | | | |
| 4 | Room dimensions | 408.0 ft² | | | | 195.0 ft² | | | | | | | | |
| 5 | Room area | | | | | | | | | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 302 | 254 | 772 | 114 | 163 | 141 | 430 | 63 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 21 | 0 | 377 | 171 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 48 | 0 | 883 | 394 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 504 | 184 | 561 | 83 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 224 | 118 | 3692 | 1865 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 96 | 50 | 1582 | 799 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 487 | 241 | 735 | 108 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 117 | 9 | 1934 | 2137 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 128 | 10 | 2191 | 3100 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 502 | 502 | 1288 | 360 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 329 | 329 | 355 | 93 | 135 | 135 | 145 | 38 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 88 | 88 | 78 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | 879 | | | | | -211 |
| | Envelope loss/gain | | | | | | | | 14072 | 9932 | | | 952 | 61 |
| 12 | a) Infiltration | | | | | | | | 1149 | 151 | | | 144 | 19 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | 230 | | 0 | | | 0 | 0 | | | 0 | 0 |
| | | | Appliances/other | | | | | | 1500 | | | | 2000 | |
| | Subtotal (lines 6 to 13) | | | | | | | | 15220 | 11584 | | | 1097 | 2081 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 15220 | 11584 | | | 1097 | 2081 |
| 15 | Duct loads | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Total room load | | | | | | | | 15220 | 11584 | | | 1097 | 2081 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

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| 1 Room name | | | | Dining | | M. Entry Hall | | | | | | | | | |
|-------------------|--------------------------|----------------------|-----------------------|----------------|----------------|---------------|------------------------------|-------|-------------|------|------------------------------|-------|-------------|------|-----|
| 2 Exposed wall | | | | 16.3 ft | | 14.0 ft | | | | | | | | | |
| 3 Room height | | | | 10.0 ft | | 10.0 ft | | | | | | | | | |
| 4 Room dimensions | | | | 16.3 x 13.5 ft | | 14.0 x 4.0 ft | | | | | | | | | |
| 5 Room area | | | | 219.4 ft² | | 56.0 ft² | | | | | | | | | |
| 6 | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool | |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 163 | 99 | 300 | 44 | 140 | 76 | 231 | 34 | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 64 | 34 | 1055 | 533 | 64 | 34 | 1055 | 533 | |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | D | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 104 | 104 | 112 | 30 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 69 | 69 | 61 | 0 | 56 | 56 | 50 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | c) AED excursion | | | | | | | | | | | | | 115 | |
| | Envelope loss/gain | | | | | | | | 1528 | 579 | | | | 1336 | 682 |
| 12 | a) Infiltration | | | | | | | | 144 | 19 | | | | 124 | 16 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | 230 | | | 0 | | | 0 | 0 | | | 0 | 0 |
| | | | Appliances/other | | | | | | | 1500 | | | | 0 | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 1672 | 2098 | | | | 1460 | 698 |
| | Less external load | | | | | | | | 0 | 0 | | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 1672 | 2098 | | | | 1460 | 698 |
| 15 | Duct loads | | | | | | | | 0 | 0 | | | | 0 | 0 |
| | Total room load | | | | | | | | 1672 | 2098 | | | | 1460 | 698 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | | 0 | 0 |

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

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| 1 | Room name | | | | Main Stair | | | | Pantry | | | | | |
|----|---------------------------------|----------------------|-----------------------|----|----------------|-------|------------------------------|-------|--------------|------|------------------------------|-------|-------------|------|
| | Exposed wall | | | | 6.0 ft | | | | 8.0 ft | | | | | |
| | Room height | | | | 10.0 ft | | | | 10.0 ft | | | | | |
| 2 | Room dimensions | | | | 6.0 x 21.5 ft | | | | 8.0 x 8.0 ft | | | | | |
| 3 | Room area | | | | 129.0 ft² | | | | 64.0 ft² | | | | | |
| 4 | | | | | heat/cool | | | | heat/cool | | | | | |
| 5 | | | | | | | | | | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 60 | 12 | 37 | 5 | 80 | 80 | 243 | 36 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 48 | 0 | 913 | 285 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 62 | 62 | 67 | 18 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 951 | 263 | | | 310 | 48 |
| 12 | a) Infiltration | | | | | | | | 53 | 7 | | | 71 | 9 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: Occupants @ 230 | | | | | | 0 | | | | 0 | 0 | | 0 |
| | Appliances/other | | | | | | | | | | 0 | 0 | | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 1004 | 270 | | | 381 | 57 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 1004 | 270 | | | 381 | 57 |
| 15 | Duct loads | | | | | | -0% | 0% | 0 | 0 | | | 0 | 0 |
| | Total room load | | | | | | | | 1004 | 270 | | | 381 | 57 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| 1 | Room name | | | | Utility | | | | Main Pwdr | | | | | |
|----|---------------------------------|----------------------|-----------------------|----|----------------|-------|------------------------------|-------|--------------|------|------------------------------|-------|-------------|------|
| | Exposed wall | | | | 0 ft | | | | 0 ft | | | | | |
| | Room height | | | | 10.0 ft | | | | 10.0 ft | | | | | |
| 2 | Room dimensions | | | | 8.0 x 6.0 ft | | | | 8.0 x 7.5 ft | | | | | |
| 3 | Room area | | | | 48.0 ft² | | | | 60.0 ft² | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 47 | 47 | 50 | 13 | 56 | 56 | 61 | 16 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 50 | -34 | | | 62 | 14 |
| 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 | | | | | | | | | 500 | | | | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 50 | 466 | | | 62 | 14 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 50 | 466 | | | 62 | 14 |
| 15 | Duct loads | | | | | | -0% | 0% | 0 | 0 | -0% | 0% | 0 | 0 |
| | Total room load | | | | | | | | 50 | 466 | | | 62 | 14 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

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| 1 | Room name | | | | M. Clo | | | | M. Bath | | | | | |
|----|--------------------------|----------------------|-----------------------|----|------------------|-------|------------------------------|-------|----------------|------|------------------------------|-------|-------------|------|
| | Exposed wall | | | | 5.8 ft | | | | 25.0 ft | | | | | |
| | Room height | | | | 10.0 ft | | | | 10.0 ft | | | | | |
| 4 | Room dimensions | | | | 5.8 x 11.3 ft | | | | 13.8 x 11.3 ft | | | | | |
| 5 | Room area | | | | 64.7 ft² | | | | 154.7 ft² | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 58 | 58 | 175 | 26 | 138 | 138 | 418 | 62 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 113 | 89 | 269 | 40 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 24 | 2 | 396 | 429 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 65 | 65 | 70 | 18 | 155 | 155 | 167 | 44 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | 46 |
| | Envelope loss/gain | | | | | | | | 245 | 39 | | | 1250 | 621 |
| 12 | a) Infiltration | | | | | | | | 51 | 7 | | | 222 | 29 |
| | 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) | | | | | | | | 296 | 46 | | | 1472 | 650 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 296 | 46 | | | 1472 | 650 |
| 15 | Duct loads | | | | | | -0% | 0% | 0 | 0 | -0% | 0% | 0 | 0 |
| | Total room load | | | | | | | | 296 | 46 | | | 1472 | 650 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

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| | | | | M. Bedroom 40.3 ft | | | | Bedroom 2 3.5 ft | | | | | | |
|----|--------------------------|----------------------|-----------------------|-----------------------|----------------|-------|------------------------------|---------------------|-------------|------|------------------------------|-------|-------------|------|
| | | | | 10.0 ft heat/cool | | | | 9.0 ft heat/cool | | | | | | |
| | | | | 1.0 x 360.8 ft | | | | 1.0 x 326.4 ft | | | | | | |
| | | | | 360.8 ft² | | | | 326.4 ft² | | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 33 | 33 | 99 | 15 | 32 | 14 | 41 | 6 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 18 | 0 | 297 | 119 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 143 | 101 | 306 | 45 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 18 | 2 | 297 | 379 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 24 | 2 | 396 | 582 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 228 | 132 | 400 | 59 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 96 | 50 | 1582 | 799 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 326 | 326 | 838 | 234 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 264 | 264 | 284 | 75 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 97 | 97 | 86 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | -255 | | | | -82 |
| | Envelope loss/gain | | | | | | | | 3450 | 1700 | | | 1176 | 277 |
| 12 | a) Infiltration | | | | | | | | 358 | 47 | | | 28 | 4 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | 230 | | 2 | | | | 460 | 1 | | | 230 |
| | | | Appliances/other | | | | | | | 300 | | | | 300 |
| | Subtotal (lines 6 to 13) | | | | | | | | 3808 | 2507 | | | 1203 | 811 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 3808 | 2507 | | | 1203 | 811 |
| 15 | Duct loads | | | | | | | | 0 | 0 | 1% | 1% | 7 | 4 |
| | Total room load | | | | | | | | 3808 | 2507 | | | 1211 | 815 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | | | Clo 2 13.0 ft 9.0 ft heat/cool 13.0 x 2.5 ft 32.5 ft² | | | | Upper Stair 0 ft 9.0 ft heat/cool 6.0 x 14.8 ft 88.5 ft² | | | | | | | | | | | | | | | | | |
|----|--------------------------|---|---|---|----------------------|--------------|-------------|--|-----------|-----|---------------------|-----------------------|----|----------------|------|------------------------------|-------|-------------|------|------------------------------|-------|-------------|------|--|--|
| 1 | 2 | 3 | 4 | 5 | Room name | Exposed wall | Room height | Room dimensions | Room area | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | | |
| | | | | | | | | | | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool | | |
| 6 | W | | | | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 117 | 117 | 356 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 11 | G | | | | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | | | | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | | | | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | | | | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | | | | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | | | | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | | | | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | | | | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | R | | | | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | D | | | | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | C | | | | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 33 | 33 | 83 | 23 | 89 | 89 | 227 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F | | | | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F | | | | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F | | | | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F | | | | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 6 | c) AED excursion | | | | | | | | | | | | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | a) Infiltration | | | | | | | | | | | | | | | | | | | | | | | | |
| | b) Room ventilation | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Internal gains: | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Occupants @ | | | 230 | | 0 | | | | | | | | | | | | | | | |
| | | | | | Appliances/other | | | | | | | | | | | | | | | | | | | | |
| | Subtotal (lines 6 to 13) | | | | | | | | | | | | | | | | | | | | | | | | |
| | Less external load | | | | | | | | | | | | | | | | | | | | | | | | |
| | Less transfer | | | | | | | | | | | | | | | | | | | | | | | | |
| | Redistribution | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Subtotal | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Duct loads | | | | | | | | | | 1% | 1% | | | | | | | | | | | | | |
| | Total room load | | | | | | | | | | | | | | | | | | | | | | | | |
| | Air required (cfm) | | | | | | | | | | | | | | | | | | | | | | | | |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | | | | | Upper Bath 13.5 ft 9.0 ft heat/cool 13.5 x 7.5 ft 101.3 ft² | | | | Media/Den 19.5 ft 9.0 ft heat/cool 1.0 x 288.4 ft 288.4 ft² | | | | |
|----|--------------------------|----------------------|-----------------------|----|----------------|---|------------------------------|-------|-------------|---|------------------------------|-------|-------------|------|
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 176 | 80 | 242 | 36 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 32 | 0 | 527 | 212 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 64 | 0 | 1096 | 506 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 122 | 122 | 370 | 55 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 101 | 101 | 260 | 73 | 288 | 288 | 740 | 207 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 633 | 114 | | | 2605 | 732 |
| 12 | a) Infiltration | | | | | | | | 108 | 14 | | | 156 | 21 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | | 230 | | 0 | | | 0 | 0 | | | 0 |
| | | | Appliances/other | | | | | | | 0 | | | | 1500 |
| | Subtotal (lines 6 to 13) | | | | | | | | 741 | 128 | | | 2761 | 2252 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 741 | 128 | | | 2761 | 2252 |
| 15 | Duct loads | | | | | | | | 5 | 1 | 1% | 1% | 17 | 12 |
| | Total room load | | | | | | | | 745 | 129 | | | 2778 | 2264 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | | | | | Clo 3 9.0 ft 0 ft heat/cool | | | | Clo 4 9.0 ft 2.5 ft heat/cool | | | | | |
|----|--------------------------|----------------------|-------------|-----------------|-----------|--------------------------------------|------|------------------------------|-------|--|------|------------------------------|-------|-------------|------|
| | | | | | | 2.5 x 7.8 ft | | | | 2.5 x 7.5 ft | | | | | |
| | | | | | | 19.4 ft² | | | | 18.8 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 | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 23 | 23 | 68 | 10 | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 19 | 19 | 50 | 14 | 19 | 19 | 48 | 13 | |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | |
| 6 | c) AED excursion | | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | | 50 | 13 | | | 117 | 21 |
| 12 | a) Infiltration | | | | | | | | | 0 | 0 | | | 20 | 3 |
| | b) Room ventilation | | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | | | | Occupants @ | 230 | 0 | | 0 | 0 | | | 0 | 0 |
| | | | | | | Appliances/other | | | | 0 | | | | 0 | |
| | Subtotal (lines 6 to 13) | | | | | | | | | 50 | 13 | | | 137 | 24 |
| | Less external load | | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | | 50 | 13 | | | 137 | 24 |
| 15 | Duct loads | | | | | | | | | 0 | 0 | 1% | 1% | 1 | 0 |
| | Total room load | | | | | | | | | 50 | 13 | | | 138 | 24 |
| | Air required (cfm) | | | | | | | | | 0 | 0 | | | 0 | 0 |

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

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| | | | | | | Bedroom 4 27.5 ft 9.0 ft 1.0 x 202.3 ft heat/cool 202.3 ft² | | | | Bedroom 3 29.8 ft 9.0 ft 1.0 x 197.4 ft heat/cool 197.4 ft² | | | | |
|----|--------------------------|---------------------|-----------------------|----|----------------|--|------------------------------|-------|-------------|--|------------------------------|-------|-------------|------|
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 153 | 153 | 466 | 69 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 117 | 75 | 228 | 34 | 115 | 52 | 157 | 23 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 18 | 2 | 297 | 322 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 18 | 2 | 297 | 379 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 9 | 2 | 148 | 201 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 24 | 2 | 396 | 582 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 36 | 2 | 593 | 896 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 131 | 35 | 105 | 15 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 96 | 50 | 1582 | 799 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Atticoeiling, mtl r | 0.408 | - | 2.57 | 0.72 | 202 | 202 | 519 | 145 | 197 | 197 | 507 | 141 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | 207 |
| | Envelope loss/gain | | | | | | | | 3130 | 1723 | | | 2168 | 1859 |
| 12 | a) Infiltration | | | | | | | | 220 | 29 | | | 238 | 31 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | | 230 | | 1 | | 230 | | 1 | | 230 | 300 |
| | | | Appliances/other | | | | | | 300 | | | | 300 | |
| | Subtotal (lines 6 to 13) | | | | | | | | 3350 | 2282 | | | 2406 | 2420 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 3350 | 2282 | | | 2406 | 2420 |
| 15 | Duct loads | | | | | | | 1% | 21 | 12 | 1% | 1% | 15 | 13 |
| | Total room load | | | | | | | | 3371 | 2294 | | | 2421 | 2433 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

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| | | | | Main Stair | | | | Pantry | | | | | | | |
|----|--------------------------|----------------------|------------------|-----------------|-----------|----------------|------|------------------------------|-------|-------------|------|------------------------------|-------|-------------|------|
| | | | | 6.0 ft | | | | 8.0 ft | | | | | | | |
| | | | | heat/cool | | | | heat/cool | | | | | | | |
| | | | | 10.0 ft | | | | 10.0 ft | | | | | | | |
| | | | | 6.0 x 21.5 ft | | | | 8.0 x 8.0 ft | | | | | | | |
| | | | | 129.0 ft² | | | | 64.0 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 | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 60 | 12 | 37 | 5 | 80 | 80 | 243 | 36 | |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 48 | 0 | 913 | 285 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 62 | 62 | 67 | 18 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | c) AED excursion | | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 951 | 263 | | | 310 | 48 | |
| 12 | a) Infiltration | | | | | | | | 53 | 7 | | | 71 | 9 | |
| | 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) | | | | | | | | 1004 | 270 | | | 381 | 57 | |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 | |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 | |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 | |
| 14 | Subtotal | | | | | | | | 1004 | 270 | | | 381 | 57 | |
| 15 | Duct loads | | | | | | | | 0 | 0 | | | 0 | 0 | |
| | Total room load | | | | | | | | 1004 | 270 | | | 381 | 57 | |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 | |

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

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| 1 | Room name | | | | Utility | | | | Main Pwdr | | | | | | | |
|----|---------------------------------|----------------------|-----------------------|----|----------------|-------|------------------------------|-------|-------------|------|------------------------------|-------|-------------|------|----|--|
| | 2 | 3 | 4 | 5 | 10.0 ft | | 0 ft | | 10.0 ft | | 0 ft | | | | | |
| 3 | Exposed wall | | | | heat/cool | | | | heat/cool | | | | | | | |
| 4 | Room height | | | | 8.0 | | x | | 6.0 | | ft | | | | | |
| 5 | Room dimensions | | | | 48.0 | | ft² | | 8.0 | | x | | 7.5 | | ft | |
| 5 | Room area | | | | 60.0 | | ft² | | 8.0 | | x | | 7.5 | | ft | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool | | |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 47 | 47 | 50 | 13 | 56 | 56 | 61 | 16 | | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | | |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 6 | c) AED excursion | | | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 50 | -34 | | | 62 | 14 | | |
| 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 | | | | | | | | | 500 | | | | 0 | | |
| | Subtotal (lines 6 to 13) | | | | | | | | 50 | 466 | | | 62 | 14 | | |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 | | |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 | | |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 | | |
| 14 | Subtotal | | | | | | | | 50 | 466 | | | 62 | 14 | | |
| 15 | Duct loads | | | | | | -0% | 0% | 0 | 0 | -0% | 0% | 0 | 0 | | |
| | Total room load | | | | | | | | 50 | 466 | | | 62 | 14 | | |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 | | |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

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| 1 | Room name | | | | M. Clo | | | | M. Bath | | | | | |
|----|---------------------------------|----------------------|-----------------------|----|----------------|-------|------------------------------|-------|----------------|------|------------------------------|-------|-------------|------|
| | Exposed wall | | | | 5.8 ft | | | | 25.0 ft | | | | | |
| | Room height | | | | 10.0 ft | | | | 10.0 ft | | | | | |
| 4 | Room dimensions | | | | 5.8 x 11.3 ft | | | | 13.8 x 11.3 ft | | | | | |
| 5 | Room area | | | | 64.7 ft² | | | | 154.7 ft² | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 58 | 58 | 175 | 26 | 138 | 138 | 418 | 62 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 113 | 89 | 269 | 40 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 24 | 2 | 396 | 429 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 65 | 65 | 70 | 18 | 155 | 155 | 167 | 44 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | 46 |
| | Envelope loss/gain | | | | | | | | 245 | 39 | | | 1250 | 621 |
| 12 | a) Infiltration | | | | | | | | 51 | 7 | | | 222 | 29 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: Occupants @ 230 | | | | | | 0 | | | | 0 | 0 | | 0 |
| | Appliances/other | | | | | | | | | | 0 | 0 | | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 296 | 46 | | | 1472 | 650 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 296 | 46 | | | 1472 | 650 |
| 15 | Duct loads | | | | | | -0% | 0% | 0 | 0 | -0% | 0% | 0 | 0 |
| | Total room load | | | | | | | | 296 | 46 | | | 1472 | 650 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | | | M. Bedroom 40.3 ft | | | | Bedroom 2 3.5 ft | | | | | | |
|----|--------------------------|----------------------|-----------------------|-----------------------|----------------|-------|------------------------------|---------------------|-------------|------|------------------------------|-------|-------------|------|
| | | | | 10.0 ft heat/cool | | | | 9.0 ft heat/cool | | | | | | |
| | | | | 1.0 x 360.8 ft | | | | 1.0 x 326.4 ft | | | | | | |
| | | | | 360.8 ft² | | | | 326.4 ft² | | | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 33 | 33 | 99 | 15 | 32 | 14 | 41 | 6 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 18 | 0 | 297 | 119 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 143 | 101 | 306 | 45 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 18 | 2 | 297 | 379 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 24 | 2 | 396 | 582 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 228 | 132 | 400 | 59 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 96 | 50 | 1582 | 799 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 0 | 0 | 0 | 0 | 326 | 326 | 838 | 234 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 264 | 264 | 284 | 75 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 97 | 97 | 86 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | -255 | | | | -82 |
| | Envelope loss/gain | | | | | | | | 3450 | 1700 | | | 1176 | 277 |
| 12 | a) Infiltration | | | | | | | | 358 | 47 | | | 28 | 4 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | 230 | | 2 | | | 460 | 300 | 1 | | | 230 |
| | | | Appliances/other | | | | | | | | | | | 300 |
| | Subtotal (lines 6 to 13) | | | | | | | | 3808 | 2507 | | | 1203 | 811 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 3808 | 2507 | | | 1203 | 811 |
| 15 | Duct loads | | | | | | | | 0 | 0 | 1% | 1% | 7 | 4 |
| | Total room load | | | | | | | | 3808 | 2507 | | | 1211 | 815 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| | | | | Clo 2 13.0 ft 9.0 ft heat/cool 13.0 x 2.5 ft 32.5 ft² | | | | Upper Stair 0 ft 9.0 ft heat/cool 6.0 x 14.8 ft 88.5 ft² | | | | | | |
|----|--------------------------|----------------------|-----------------------|---|----------------|-------|------------------------------|--|-------------|------|------------------------------|-------|-------------|------|
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 117 | 117 | 356 | 53 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 33 | 33 | 83 | 23 | 89 | 89 | 227 | 63 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | -8 | | | | -6 |
| | Envelope loss/gain | | | | | | | | 439 | 68 | | | 227 | 58 |
| 12 | a) Infiltration | | | | | | | | 104 | 14 | | | 0 | 0 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | | 230 | | 0 | | | 0 | 0 | | | 0 |
| | | | Appliances/other | | | | | | | 0 | | | | 0 |
| | Subtotal (lines 6 to 13) | | | | | | | | 543 | 81 | | | 227 | 58 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 543 | 81 | | | 227 | 58 |
| 15 | Duct loads | | | | | | 1% | 1% | 3 | 0 | 1% | 1% | 1 | 0 |
| | Total room load | | | | | | | | 547 | 82 | | | 229 | 58 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

Right-J® Worksheet
1st Floor
Web Reps LLC

Job: 980 Wagonwheel Gap Road
Date: August 14, 2018
By: Buddy High
Plan: 980 Wagonwheel Gap Ro

1880 82nd Ave. Suite #203, Vero Beach, FL 32966 Phone: 800-810-3280 Fax: 888-971-2999 Email: manualj@webrepsusa.com License: CAC05409

| 1 | | Room name | | | | Upper Bath | | | | Media/Den | | | | |
|----|--------------------------|----------------------|-----------------------|----|----------------|---------------|------------------------------|-------|-------------|----------------|------------------------------|-------|-------------|------|
| 2 | | Exposed wall | | | | 13.5 ft | | | | 19.5 ft | | | | |
| 3 | | Room height | | | | 9.0 ft | | | | 9.0 ft | | | | |
| 4 | | Room dimensions | | | | 13.5 x 7.5 ft | | | | 1.0 x 288.4 ft | | | | |
| 5 | | Room area | | | | 101.3 ft² | | | | 288.4 ft² | | | | |
| | Ty | Construction number | U-value (Btuh/ft²·°F) | Or | HTM (Btuh/ft²) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | | Area (ft²) or perimeter (ft) | | Load (Btuh) | |
| | | | | | Heat | Cool | Gross | N/P/S | Heat | Cool | Gross | N/P/S | Heat | Cool |
| 6 | W | 12F-6sw | 0.048 | n | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 176 | 80 | 242 | 36 |
| | G | 2 glazing, dr low-e | 0.300 | n | 19.02 | 5.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | n | 16.48 | 6.63 | 0 | 0 | 0 | 0 | 32 | 0 | 527 | 212 |
| 11 | G | 2 glazing, dr low-e | 0.270 | n | 17.12 | 7.90 | 0 | 0 | 0 | 0 | 64 | 0 | 1096 | 506 |
| | G | 2 glazing, dr low-e | 0.280 | n | 17.75 | 8.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.290 | n | 18.39 | 8.20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | n | 3.68 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | e | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 17.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 21.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 22.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | e | 16.48 | 24.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | s | 3.04 | 0.45 | 122 | 122 | 370 | 55 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | s | 16.48 | 8.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 15A-15s3oc-10 | 0.060 | s | 3.64 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 11J0 | 0.600 | s | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | W | 12F-6sw | 0.048 | w | 3.04 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.260 | w | 16.48 | 18.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | G | 2 glazing, dr low-e | 0.270 | w | 17.12 | 24.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | R | 12C-0sw | 0.091 | - | 5.77 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | D | 11J0 | 0.600 | n | 38.04 | 14.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | C | Attic ceiling, mtl r | 0.408 | - | 2.57 | 0.72 | 101 | 101 | 260 | 73 | 288 | 288 | 740 | 207 |
| | F | 19C-19cscp | 0.049 | - | 1.08 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | F | 21B-32t | 0.014 | - | 0.89 | 0.00 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| 6 | c) AED excursion | | | | | | | | | | | | | |
| | Envelope loss/gain | | | | | | | | 633 | 114 | | | 2605 | 732 |
| 12 | a) Infiltration | | | | | | | | 108 | 14 | | | 156 | 21 |
| | b) Room ventilation | | | | | | | | 0 | 0 | | | 0 | 0 |
| 13 | Internal gains: | | Occupants @ | | 230 | | 0 | | | 0 | 0 | | | 0 |
| | | | Appliances/other | | | | | | | 0 | | | | 1500 |
| | Subtotal (lines 6 to 13) | | | | | | | | 741 | 128 | | | 2761 | 2252 |
| | Less external load | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Less transfer | | | | | | | | 0 | 0 | | | 0 | 0 |
| | Redistribution | | | | | | | | 0 | 0 | | | 0 | 0 |
| 14 | Subtotal | | | | | | | | 741 | 128 | | | 2761 | 2252 |
| 15 | Duct loads | | | | | | | | 5 | 1 | 1% | 1% | 17 | 12 |
| | Total room load | | | | | | | | 745 | 129 | | | 2778 | 2264 |
| | Air required (cfm) | | | | | | | | 0 | 0 | | | 0 | 0 |

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

