
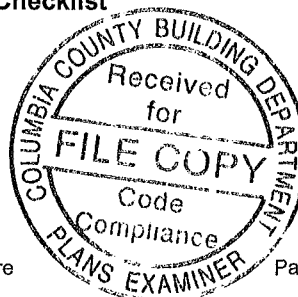


# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

|  |  |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|--|--|--|-------------|---|------------------------------|------------------------|--|---|----------------------------------|---------------|--|---|-------------------------------------|---|--|---|--------------------|---|--|---|-----------------------|----|--|---|--|------|--|--|--|---|--|---|----------------------|-------------|------|---|----------|-------------|------------|--|------|-----------|--|---|----------|-----|-----|--|------|--|--|---|----------|-----|-----|--|------|--|--|---|----------|-----|-----|--|------|--|--|--|--------------------------------------|-----------|--|--|----------------------------|-------|--|---|----------------------------|------------|------|---|-------------------------------|-------|-------------|---|--------------|--------|-------------|---|-----|----|-----|--|--|--|--|---|--------------------------|------------|------|---|-------------------------|--------|-------------|---|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|------------------------------|------------|------|---|--------------------------------------|--------|-------------|---|----------------------|--------|-------------|---|-----|----|-----|----|-------|--|-------|---|--|--|-------|----|-----------------|---------|------------|---|--------------|------|------------|----|-----------------|---------|------------|---|--------------------|------|-----------|----|-------------------|--|--|---|----------|-----|------------|--|--|----|-------|--|-------------------------|--|--|--|------|--|--|----|---------|--|-----------|
| Project Name<br>Street:<br>City, State, Zip<br>Owner<br>Design Location  |  | Gasparrine Residence<br>FL,<br>Frank Gasparrini<br>FL, Gainesville |             | Builder Name<br>Permit Office<br>Permit Number<br>Jurisdiction  |                              | TBA<br>Columbia County |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| <table><tr><td>1</td><td>New construction or existing</td><td colspan="2">New (From Plans)</td></tr><tr><td>2</td><td>Single family or multiple family</td><td colspan="2">Single-family</td></tr><tr><td>3</td><td>Number of units, if multiple family</td><td colspan="2">1</td></tr><tr><td>4</td><td>Number of Bedrooms</td><td colspan="2">4</td></tr><tr><td>5</td><td>Is this a worst case?</td><td colspan="2">No</td></tr><tr><td>6</td><td>Conditioned floor area above grade (ft²)</td><td colspan="2">2895</td></tr><tr><td></td><td>Conditioned floor area below grade (ft²)</td><td colspan="2">0</td></tr><tr><td>7</td><td>Windows(303 0 sqft )</td><td>Description</td><td>Area</td></tr><tr><td>a</td><td>U-Factor</td><td>Dbl, U=0.55</td><td>303 00 ft²</td></tr><tr><td></td><td>SHGC</td><td>SHGC=0.50</td><td></td></tr><tr><td>b</td><td>U-Factor</td><td>N/A</td><td>ft²</td></tr><tr><td></td><td>SHGC</td><td></td><td></td></tr><tr><td>c</td><td>U-Factor</td><td>N/A</td><td>ft²</td></tr><tr><td></td><td>SHGC</td><td></td><td></td></tr><tr><td>d</td><td>U-Factor</td><td>N/A</td><td>ft²</td></tr><tr><td></td><td>SHGC</td><td></td><td></td></tr><tr><td></td><td>Area Weighted Average Overhang Depth</td><td colspan="2">1.777 ft.</td></tr><tr><td></td><td>Area Weighted Average SHGC</td><td colspan="2">0.500</td></tr><tr><td>8</td><td>Floor Types (2895 0 sqft )</td><td>Insulation</td><td>Area</td></tr><tr><td>a</td><td>Slab-On-Grade Edge Insulation</td><td>R=0.0</td><td>1800 00 ft²</td></tr><tr><td>b</td><td>Raised Floor</td><td>R=19.0</td><td>1095 00 ft²</td></tr><tr><td>c</td><td>N/A</td><td>R=</td><td>ft²</td></tr></table> |  |  |             | 1   | New construction or existing | New (From Plans)       |  | 2 | Single family or multiple family | Single-family |  | 3 | Number of units, if multiple family | 1 |  | 4 | Number of Bedrooms | 4 |  | 5 | Is this a worst case? | No |  | 6 | Conditioned floor area above grade (ft²) | 2895 |  |  | Conditioned floor area below grade (ft²) | 0 |  | 7 | Windows(303 0 sqft ) | Description | Area | a | U-Factor | Dbl, U=0.55 | 303 00 ft² |  | SHGC | SHGC=0.50 |  | b | U-Factor | N/A | ft² |  | SHGC |  |  | c | U-Factor | N/A | ft² |  | SHGC |  |  | d | U-Factor | N/A | ft² |  | SHGC |  |  |  | Area Weighted Average Overhang Depth | 1.777 ft. |  |  | Area Weighted Average SHGC | 0.500 |  | 8 | Floor Types (2895 0 sqft ) | Insulation | Area | a | Slab-On-Grade Edge Insulation | R=0.0 | 1800 00 ft² | b | Raised Floor | R=19.0 | 1095 00 ft² | c | N/A | R= | ft² | <table><tr><td>9</td><td>Wall Types(2720 0 sqft )</td><td>Insulation</td><td>Area</td></tr><tr><td>a</td><td>Frame - Steel, Exterior</td><td>R=30.0</td><td>2720 00 ft²</td></tr><tr><td>b</td><td>N/A</td><td>R=</td><td>ft²</td></tr><tr><td>c</td><td>N/A</td><td>R=</td><td>ft²</td></tr><tr><td>d</td><td>N/A</td><td>R=</td><td>ft²</td></tr><tr><td>10</td><td>Ceiling Types (2895 0 sqft.)</td><td>Insulation</td><td>Area</td></tr><tr><td>a</td><td>Cathedral/Single Assembly (Unvented)</td><td>R=30 0</td><td>1835.00 ft²</td></tr><tr><td>b</td><td>Roof Deck (Unvented)</td><td>R=30 0</td><td>1060 00 ft²</td></tr><tr><td>c</td><td>N/A</td><td>R=</td><td>ft²</td></tr><tr><td>11</td><td>Ducts</td><td></td><td>R ft²</td></tr><tr><td>a</td><td>Sup RoomsInBlock1, Ret RoomsInBlock1, AH</td><td></td><td>6 579</td></tr><tr><td>12</td><td>Cooling systems</td><td>kBtu/hr</td><td>Efficiency</td></tr><tr><td>a</td><td>Central Unit</td><td>36 0</td><td>SEER 13 00</td></tr><tr><td>13</td><td>Heating systems</td><td>kBtu/hr</td><td>Efficiency</td></tr><tr><td>a</td><td>Electric Heat Pump</td><td>36 0</td><td>HSPF 7 70</td></tr><tr><td>14</td><td>Hot water systems</td><td></td><td></td></tr><tr><td>a</td><td>Electric</td><td>Cap</td><td>50 gallons</td></tr><tr><td></td><td></td><td>EF</td><td>0.920</td></tr><tr><td></td><td>b Conservation features</td><td></td><td></td></tr><tr><td></td><td>None</td><td></td><td></td></tr><tr><td>15</td><td>Credits</td><td></td><td>CF, Pstat</td></tr></table> |  |  |  | 9 | Wall Types(2720 0 sqft ) | Insulation | Area | a | Frame - Steel, Exterior | R=30.0 | 2720 00 ft² | b | N/A | R= | ft² | c | N/A | R= | ft² | d | N/A | R= | ft² | 10 | Ceiling Types (2895 0 sqft.) | Insulation | Area | a | Cathedral/Single Assembly (Unvented) | R=30 0 | 1835.00 ft² | b | Roof Deck (Unvented) | R=30 0 | 1060 00 ft² | c | N/A | R= | ft² | 11 | Ducts |  | R ft² | a | Sup RoomsInBlock1, Ret RoomsInBlock1, AH |  | 6 579 | 12 | Cooling systems | kBtu/hr | Efficiency | a | Central Unit | 36 0 | SEER 13 00 | 13 | Heating systems | kBtu/hr | Efficiency | a | Electric Heat Pump | 36 0 | HSPF 7 70 | 14 | Hot water systems |  |  | a | Electric | Cap | 50 gallons |  |  | EF | 0.920 |  | b Conservation features |  |  |  | None |  |  | 15 | Credits |  | CF, Pstat |
| 1  | New construction or existing             | New (From Plans)   |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 2  | Single family or multiple family         | Single-family  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 3  | Number of units, if multiple family      | 1  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 4  | Number of Bedrooms                       | 4  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 5  | Is this a worst case?                    | No   |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 6  | Conditioned floor area above grade (ft²) | 2895   |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | Conditioned floor area below grade (ft²) | 0  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 7  | Windows(303 0 sqft )                     | Description  | Area        |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | U-Factor                                 | Dbl, U=0.55  | 303 00 ft²  |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | SHGC                                     | SHGC=0.50  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| b  | U-Factor                                 | N/A  | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | SHGC                                     |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| c  | U-Factor                                 | N/A  | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | SHGC                                     |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| d  | U-Factor                                 | N/A  | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | SHGC                                     |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | Area Weighted Average Overhang Depth     | 1.777 ft.  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | Area Weighted Average SHGC               | 0.500  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 8  | Floor Types (2895 0 sqft )               | Insulation   | Area        |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Slab-On-Grade Edge Insulation            | R=0.0  | 1800 00 ft² |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| b  | Raised Floor                             | R=19.0   | 1095 00 ft² |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| c  | N/A                                      | R=   | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 9  | Wall Types(2720 0 sqft )                 | Insulation   | Area        |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Frame - Steel, Exterior                  | R=30.0   | 2720 00 ft² |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| b  | N/A                                      | R=   | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| c  | N/A                                      | R=   | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| d  | N/A                                      | R=   | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 10   | Ceiling Types (2895 0 sqft.)             | Insulation   | Area        |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Cathedral/Single Assembly (Unvented)     | R=30 0   | 1835.00 ft² |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| b  | Roof Deck (Unvented)                     | R=30 0   | 1060 00 ft² |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| c  | N/A                                      | R=   | ft²         |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 11   | Ducts                                    |  | R ft²       |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Sup RoomsInBlock1, Ret RoomsInBlock1, AH |  | 6 579       |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 12   | Cooling systems                          | kBtu/hr  | Efficiency  |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Central Unit                             | 36 0   | SEER 13 00  |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 13   | Heating systems                          | kBtu/hr  | Efficiency  |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Electric Heat Pump                       | 36 0   | HSPF 7 70   |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 14   | Hot water systems                        |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| a  | Electric                                 | Cap  | 50 gallons  |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  |  | EF   | 0.920       |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | b Conservation features                  |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  | None                                     |  |             |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| 15   | Credits                                  |  | CF, Pstat   |   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| Glass/Floor Area: 0.105  |  |  |             | Total Proposed Modified Loads: 44.19<br>Total Standard Reference Loads: 64.90   |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
| I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.<br><br>PREPARED BY: <u>William H. Fulmer</u><br>DATE: <u>7/5/12</u><br><br>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code<br><br>OWNER/AGENT: _____<br>DATE: _____   |  |  |             | Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.<br><br>BUILDING OFFICIAL: _____<br>DATE: _____ |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |
|  |  |  |             |    |                              |                        |  |   |                                  |               |  |   |                                     |   |  |   |                    |   |  |   |                       |    |  |   |  |      |  |  |  |   |  |   |                      |             |      |   |          |             |            |  |      |           |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |   |          |     |     |  |      |  |  |  |                                      |           |  |  |                            |       |  |   |                            |            |      |   |                               |       |             |   |              |        |             |   |     |    |     |  |  |  |  |   |                          |            |      |   |                         |        |             |   |     |    |     |   |     |    |     |   |     |    |     |    |                              |            |      |   |                                      |        |             |   |                      |        |             |   |     |    |     |    |       |  |       |   |  |  |       |    |                 |         |            |   |              |      |            |    |                 |         |            |   |                    |      |           |    |                   |  |  |   |          |     |            |  |  |    |       |  |                         |  |  |  |      |  |  |    |         |  |           |

- **Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist**



| PROJECT       |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
|---------------|----------------------|--------------------------------------|-------------------|--------------------|-------------------|------------------------|----------------|---------------------|-----------------|------------------|------------|-------------|
| Title         | Gasparrine Residence |                                      | Bedrooms          | 4                  |                   | Address Type           | Street Address |                     |                 |                  |            |             |
| Building Type | FLProp2010           |                                      | Conditioned Area  | 2895               |                   | Lot #                  |                |                     |                 |                  |            |             |
| Owner         | Frank Gasparrini     |                                      | Total Stories     | 2                  |                   | Block/SubDivision      |                |                     |                 |                  |            |             |
| # of Units    | 1                    |                                      | Worst Case        | No                 |                   | PlatBook               |                |                     |                 |                  |            |             |
| Builder Name  | TBA                  |                                      | Rotate Angle      | 0                  |                   | Street                 |                |                     |                 |                  |            |             |
| Permit Office | Columbia County      |                                      | Cross Ventilation |                    |                   | County                 | Columbia       |                     |                 |                  |            |             |
| Jurisdiction  |                      |                                      | Whole House Fan   |                    |                   | City, State, Zip       | , FL ,         |                     |                 |                  |            |             |
| Family Type   | Single-family        |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| New/Existing  | New (From Plans)     |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| Comment       |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| CLIMATE       |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| ✓             | Design Location      | TMY Site                             | IECC Zone         | Design Temp 97.5 % | 2 5 %             | Int Design Temp Winter | Summer         | Heating Degree Days | Design Moisture | Daily Temp Range |            |             |
| _____         | FL, Gainesville      | FL_GAINESVILLE_REGI                  | 2                 | 32                 | 92                | 70                     | 75             | 1305.5              | 51              | Medium           |            |             |
| BLOCKS        |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
|               | Number               | Name                                 | Area              | Volume             |                   |                        |                |                     |                 |                  |            |             |
|               | 1                    | Block1                               | 2895              | 23160              |                   |                        |                |                     |                 |                  |            |             |
| SPACES        |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
|               | Number               | Name                                 | Area              | Volume             | Kitchen           | Occupants              | Bedrooms       | Infil ID            | Finished        | Cooled           | Heated     |             |
|               | 1                    | RoomsInBlock1                        | 2895              | 23160              | Yes               | 4                      | 4              | 1                   | Yes             | Yes              | Yes        |             |
| FLOORS        |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| ✓             | #                    | Floor Type                           | Space             | Perimeter          | Perimeter R-Value | Area                   | Joist R-Value  | Tile                | Wood            | Carpet           |            |             |
| _____         | 1                    | Slab-On-Grade Edge Insulatio         | RoomsInBlock1     | 170 ft             | 0                 | 1800 ft²               | ----           | 1                   | 0               | 0                |            |             |
| _____         | 2                    | Raised Floor                         | RoomsInBlock1     | ----               | ----              | 1095 ft²               | 19             | 0 1                 | 0 9             | 0                |            |             |
| ROOF          |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| ✓             | #                    | Type                                 | Materials         | Roof Area          | Gable Area        | Roof Color             | Solar Absor    | SA Tested           | Emitt           | Emitt Tested     | Deck Insul | Pitch (deg) |
| _____         | 1                    | Gable or shed                        | Metal             | 1855 ft²           | 224 ft²           | Medium                 | 0 96           | No                  | 0 9             | No               | 30         | 14          |
| ATTIC         |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| ✓             | #                    | Type                                 | Ventilation       | Vent Ratio (1 in)  | Area              | RBS                    | IRCC           |                     |                 |                  |            |             |
| _____         | 1                    | No attic                             | Unvented          | 0                  | 1800 ft²          | N                      | N              |                     |                 |                  |            |             |
| CEILING       |                      |                                      |                   |                    |                   |                        |                |                     |                 |                  |            |             |
| ✓             | #                    | Ceiling Type                         | Space             | R-Value            | Area              | Framing Frac           | Truss Type     |                     |                 |                  |            |             |
| _____         | 1                    | Cathedral/Single Assembly (Unvented) | RoomsInBlock1     | 30                 | 740 ft²           | 0 11                   | Metal          |                     |                 |                  |            |             |
| _____         | 2                    | Under Attic (Unvented)               | RoomsInBlock1     | 30                 | 1060 ft²          | 0 11                   | Metal          |                     |                 |                  |            |             |
| _____         | 3                    | Cathedral/Single Assembly (Unvented) | RoomsInBlock1     | 30                 | 1095 ft²          | 0 11                   | Metal          |                     |                 |                  |            |             |

## WALLS

| ✓     | # | Ornt | Adjacent To | Wall Type     | Space       | Cavity R-Value | Width Ft | In | Height Ft | In | Area    | Sheathing R-Value | Framing Fraction | Solar Absor. | Below Grade% |
|-------|---|------|-------------|---------------|-------------|----------------|----------|----|-----------|----|---------|-------------------|------------------|--------------|--------------|
| _____ | 1 | N    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 45       |    | 8         |    | 360 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 2 | S    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 45       |    | 8         |    | 360 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 3 | E    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 40       |    | 8         |    | 320 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 4 | W    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 40       |    | 8         |    | 320 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 5 | N    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 45       |    | 8         |    | 360 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 6 | S    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 45       |    | 8         |    | 360 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 7 | E    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 40       |    | 8         |    | 320 ft² |                   | 0.23             | 0.75         | 0            |
| _____ | 8 | W    | Exterior    | Frame - Steel | RoomsInBloc | 30             | 40       |    | 8         |    | 320 ft² |                   | 0.23             | 0.75         | 0            |

## DOORS

| ✓     | # | Ornt | Door Type | Space       | Storms | U-Value  | Width Ft | In | Height Ft | In | Area   |
|-------|---|------|-----------|-------------|--------|----------|----------|----|-----------|----|--------|
| _____ | 1 | N    | Wood      | RoomsInBloc | None   | 0.460000 | 12       |    | 7         |    | 84 ft² |
| _____ | 2 | S    | Wood      | RoomsInBloc | None   | 0.460000 | 12       |    | 7         |    | 35 ft² |
| _____ | 3 | E    | Wood      | RoomsInBloc | None   | 0.460000 | 12       |    | 7         |    | 21 ft² |

## WINDOWS

Orientation shown is the entered, Proposed orientation

| ✓     | # | Ornt | Wall ID | Frame | Panes           | NFRC | U-Factor | SHGC | Storms | Area   | Overhang Depth | Separation | Int Shade | Screening |
|-------|---|------|---------|-------|-----------------|------|----------|------|--------|--------|----------------|------------|-----------|-----------|
| _____ | 1 | N    | 1       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 18 ft² | 2 ft 0 in      | 15 ft 0 in | HERS 2006 | None      |
| _____ | 2 | N    | 1       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 60 ft² | 2 ft 0 in      | 9 ft 4 in  | HERS 2006 | None      |
| _____ | 3 | N    | 1       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 30 ft² | 2 ft 0 in      | 10 ft 0 in | HERS 2006 | None      |
| _____ | 4 | S    | 2       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 30 ft² | 2 ft 0 in      | 18 ft 0 in | HERS 2006 | None      |
| _____ | 5 | N    | 5       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 90 ft² | 2 ft 0 in      | 9 ft 4 in  | HERS 2006 | None      |
| _____ | 6 | S    | 6       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 30 ft² | 2 ft 0 in      | 10 ft 4 in | HERS 2006 | None      |
| _____ | 7 | W    | 4       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 30 ft² | 0 ft 6 in      | 16 ft 4 in | HERS 2006 | None      |
| _____ | 8 | W    | 8       | Metal | Double (Tinted) | Yes  | 0.55     | 0.5  | N      | 15 ft² | 0 ft 6 in      | 8 ft 4 in  | HERS 2006 | None      |

## INFILTRATION

| # | Scope    | Method       | SLA      | CFM 50 | ELA    | EqLA   | ACH    | ACH 50 |
|---|----------|--------------|----------|--------|--------|--------|--------|--------|
| 1 | BySpaces | Proposed SLA | 0.000360 | 1699.7 | 93.312 | 175.48 | 0.3412 | 7.0821 |

## HEATING SYSTEM

| ✓     | # | System Type        | Subtype | Efficiency | Capacity   | Block | Ducts |
|-------|---|--------------------|---------|------------|------------|-------|-------|
| _____ | 1 | Electric Heat Pump | None    | HSPF 7.7   | 36 kBtu/hr | 1     | sys#1 |



# Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations  
Residential Whole Building Performance Method

ADDRESS: \_\_\_\_\_ PERMIT #: \_\_\_\_\_  
\_\_\_\_\_, FL, \_\_\_\_\_

**MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.**

| COMPONENT                 | SECTION            | SUMMARY OF REQUIREMENT(S)   | CHECK |
|---------------------------|--------------------|---|-------|
| Air leakage               | 402.4              | To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.   |       |
| Thermostat & controls     | 403.1              | At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.   |       |
| Ducts                     | 403.2.2<br>403.3.3 | All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.<br><br>Building framing cavities shall not be used as supply ducts.  |       |
| Water heaters             | 403.4              | Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.   |       |
| Mechanical ventilation    | 403.5              | Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.   |       |
| Swimming Pools & Spas     | 403.9              | Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0. |       |
| Cooling/heating equipment | 403.6              | Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.   |       |
| Ceilings/knee walls       | 405.2.1            | R-19 space permitting.  |       |

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 68

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

|  |                  |                         |  |            |                         |
|--|------------------|-------------------------|--|------------|-------------------------|
| 1 New construction or existing               | New (From Plans) |                         | 9 Wall Types                               | Insulation | Area                    |
| 2 Single family or multiple family           | Single-family    |                         | a. Frame - Steel, Exterior                 | R=30.0     | 2720 00 ft <sup>2</sup> |
| 3 Number of units, if multiple family        | 1                |                         | b N/A                                      | R=         | ft <sup>2</sup>         |
| 4. Number of Bedrooms                        | 4                |                         | c N/A                                      | R=         | ft <sup>2</sup>         |
| 5. Is this a worst case?                     | No               |                         | d N/A                                      | R=         | ft <sup>2</sup>         |
| 6. Conditioned floor area (ft <sup>2</sup> ) | 2895             |                         | 10 Ceiling Types                           | Insulation | Area                    |
| 7 Windows**                                  | Description      | Area                    | a Cathedral/Single Assembly (Unvented)     | R=30 0     | 1835.00 ft <sup>2</sup> |
| a U-Factor                                   | DbI, U=0 55      | 303 00 ft <sup>2</sup>  | b Roof Deck (Unvented)                     | R=30 0     | 1060 00 ft <sup>2</sup> |
| SHGC:  | SHGC=0 50        |                         | c. N/A                                     | R=         | ft <sup>2</sup>         |
| b U-Factor                                   | N/A              | ft <sup>2</sup>         | 11 Ducts                                   |            | R ft <sup>2</sup>       |
| SHGC   |                  |                         | a Sup RoomsInBlock1, Ret RoomsInBlock1, AH |            | 6 579                   |
| c. U-Factor                                  | N/A              | ft <sup>2</sup>         | 12 Cooling systems                         | kBtu/hr    | Efficiency              |
| SHGC   |                  |                         | a Central Unit                             | 36 0       | SEER 13 00              |
| d U-Factor                                   | N/A              | ft <sup>2</sup>         | 13 Heating systems                         | kBtu/hr    | Efficiency              |
| SHGC   |                  |                         | a Electric Heat Pump                       | 36 0       | HSPF 7 70               |
| Area Weighted Average Overhang Depth         | 1 777 ft.        |                         | 14 Hot water systems                       |            | Cap 50 gallons          |
| Area Weighted Average SHGC                   | 0.500            |                         | a Electric                                 |            | EF 0 92                 |
| 8. Floor Types                               | Insulation       | Area                    | b Conservation features                    |            |                         |
| a Slab-On-Grade Edge Insulation              | R=0 0            | 1800 00 ft <sup>2</sup> | None                                       |            |                         |
| b Raised Floor                               | R=19.0           | 1095 00 ft <sup>2</sup> | 15 Credits                                 |            | CF, Pstat               |
| c N/A  | R=               | ft <sup>2</sup>         |  |            |                         |

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at [energygauge.com](http://energygauge.com) for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

# Residential System Sizing Calculation

## Summary

Frank Gasparini

Project Title:  
Gasparini Residence

, FL

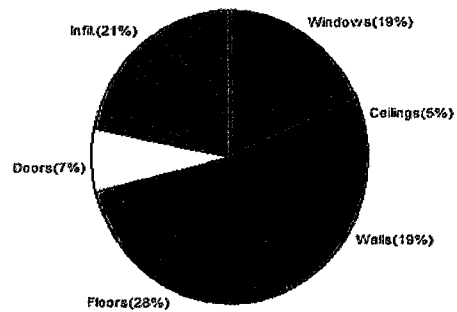
7/3/2012

|   |                   |                                       |                   |
|---|-------------------|---------------------------------------|-------------------|
| Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) |                   |                                       |                   |
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)                    |                   |                                       |                   |
| Winter design temperature(MJ8 99%)  | 33 F              | Summer design temperature(MJ8 99%)    | 92 F              |
| Winter setpoint   | 70 F              | Summer setpoint                       | 75 F              |
| Winter temperature difference   | 37 F              | Summer temperature difference         | 17 F              |
| <b>Total heating load calculation</b>   | <b>33177 Btuh</b> | <b>Total cooling load calculation</b> | <b>24340 Btuh</b> |
| Submitted heating capacity  | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)  | 108.5 36000       | Sensible (SHR = 0.75)                 | 144.2 27000       |
| Heat Pump + Auxiliary(0.0kW)  | 108.5 36000       | Latent                                | 160.3 9000        |
|   |                   | Total (Electric Heat Pump)            | 147.9 36000       |

## WINTER CALCULATIONS

Winter Heating Load (for 2895 sqft)

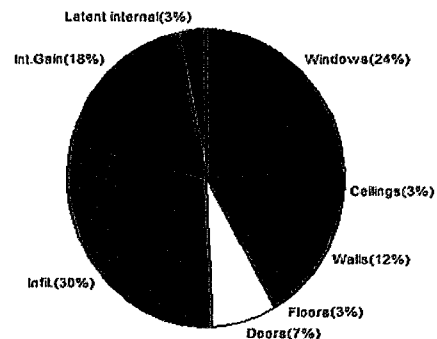
| Load component                | Load              |
|-------------------------------|-------------------|
| Window total 303 sqft         | 6166 Btuh         |
| Wall total 2277 sqft          | 6273 Btuh         |
| Door total 140 sqft           | 2383 Btuh         |
| Ceiling total 2895 sqft       | 1786 Btuh         |
| Floor total See detail report | 9454 Btuh         |
| Infiltration 176 cfm          | 7115 Btuh         |
| Duct loss                     | 0 Btuh            |
| <b>Subtotal</b>               | <b>33177 Btuh</b> |
| Ventilation 0 cfm             | 0 Btuh            |
| <b>TOTAL HEAT LOSS</b>        | <b>33177 Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 2895 sqft)

| Load component                        | Load              |
|---------------------------------------|-------------------|
| Window total 303 sqft                 | 5926 Btuh         |
| Wall total 2277 sqft                  | 2933 Btuh         |
| Door total 140 sqft                   | 1803 Btuh         |
| Ceiling total 2895 sqft               | 633 Btuh          |
| Floor total                           | 659 Btuh          |
| Infiltration 132 cfm                  | 2452 Btuh         |
| Internal gain                         | 4320 Btuh         |
| Duct gain                             | 0 Btuh            |
| Sens Ventilation 0 cfm                | 0 Btuh            |
| Blower Load                           | 0 Btuh            |
| <b>Total sensible gain</b>            | <b>18725 Btuh</b> |
| Latent gain(ducts)                    | 0 Btuh            |
| Latent gain(infiltration)             | 4814 Btuh         |
| Latent gain(ventilation)              | 0 Btuh            |
| Latent gain(internal/occupants/other) | 800 Btuh          |
| <b>Total latent gain</b>              | <b>5614 Btuh</b>  |
| <b>TOTAL HEAT GAIN</b>                | <b>24340 Btuh</b> |



8th Edition

EnergyGauge® System Sizing

PREPARED BY: William H. Furr

DATE 7/5/12