

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

|                                       |  |  |  |
|---------------------------------------|--|--|--|
| Project Name      Gianoulis Residence |  | Builder Name                                 |  |
| Street                                |  | Permit Office                                |  |
| City, State, Zip      , FL,           |  | Permit Number                                |  |
| Owner                                 |  | Jurisdiction                                 |  |
| Design Location      FL, Gainesville  |  | County      Columbia(Florida Climate Zone 2) |  |

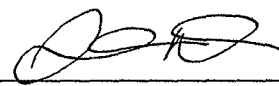

  

|  |   |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|--|---|--|-------------------------|---|----------------------------------|----------|---|-------------------------------------|---|---|--------------------|---|---|-----------------------|----|---|---|------|--|---|---|---|---------------------|-----------------------|---|----------|--|--|------|-----------|---|----------|--------------------------|--|------|--|---|----------|--------------------------|--|------|--|--|--------------------------------------|----------|--|----------------------------|-------|---|-----------|-----------------------|--|----------------|------------------------------|--|------------|-----|---|-------------|----------------------|---|-------------------------------|-------------------------------------|---|-----|-------------------------|---|-----|-------------------------|--|----|-------------------------|------------|------|---|-------------------------|--------|------------------------|---|-------------------------|--------|------------------------|---|------------------------|--------|------------------------|---|-----|--|--|----|-----------------------------|------------|------|---|-----------------------------------|--------|-------------------------|---|-----|--|--|---|-----|--|--|----|---------------------|-------------|----------------------|----|------------------------------------|---|-----------------|---|-------------------------------|---|-----|---|--|--|--|---|--|--|--|----|-----------------|---------|------------|---|--------------|------|-------------|----|-----------------|---------|------------|---|--------------------|------|-------------|----|-------------------|--|--|---|-------------------|--|---------------|--|--|--|----------|---|-----------------------|--|--|--|--|--|------|----|---------|--|-----------|
| <table> <tr> <td>1</td> <td>New construction or existing</td> <td>New (From Plans)</td> </tr> <tr> <td>2</td> <td>Single family or multiple family</td> <td>Detached</td> </tr> <tr> <td>3</td> <td>Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4</td> <td>Number of Bedrooms</td> <td>2</td> </tr> <tr> <td>5</td> <td>Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6</td> <td>Conditioned floor area above grade (ft<sup>2</sup>)</td> <td>1205</td> </tr> <tr> <td></td> <td>Conditioned floor area below grade (ft<sup>2</sup>)</td> <td>0</td> </tr> <tr> <td>7</td> <td>Windows(34.5 sqft.)</td> <td>Description      Area</td> </tr> <tr> <td>a</td> <td>U-Factor</td> <td>Dbl, U=0.26      34.50 ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC</td> <td>SHGC=0.20</td> </tr> <tr> <td>b</td> <td>U-Factor</td> <td>N/A      ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC</td> <td></td> </tr> <tr> <td>c</td> <td>U-Factor</td> <td>N/A      ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC</td> <td></td> </tr> <tr> <td></td> <td>Area Weighted Average Overhang Depth</td> <td>1.500 ft</td> </tr> <tr> <td></td> <td>Area Weighted Average SHGC</td> <td>0.200</td> </tr> <tr> <td>8</td> <td>Skylights</td> <td>Description      Area</td> </tr> <tr> <td></td> <td>U-Factor (AVG)</td> <td>N/A      N/A ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC (AVG)</td> <td>N/A</td> </tr> <tr> <td>9</td> <td>Floor Types</td> <td>Insulation      Area</td> </tr> <tr> <td>a</td> <td>Slab-On-Grade Edge Insulation</td> <td>R= 0.0      1205.00 ft<sup>2</sup></td> </tr> <tr> <td>b</td> <td>N/A</td> <td>R=      ft<sup>2</sup></td> </tr> <tr> <td>c</td> <td>N/A</td> <td>R=      ft<sup>2</sup></td> </tr> </table> | 1   | New construction or existing           | New (From Plans)        | 2 | Single family or multiple family | Detached | 3 | Number of units, if multiple family | 1 | 4 | Number of Bedrooms | 2 | 5 | Is this a worst case? | No | 6 | Conditioned floor area above grade (ft <sup>2</sup> ) | 1205 |  | Conditioned floor area below grade (ft <sup>2</sup> ) | 0 | 7 | Windows(34.5 sqft.) | Description      Area | a | U-Factor | Dbl, U=0.26      34.50 ft <sup>2</sup> |  | SHGC | SHGC=0.20 | b | U-Factor | N/A      ft <sup>2</sup> |  | SHGC |  | c | U-Factor | N/A      ft <sup>2</sup> |  | SHGC |  |  | Area Weighted Average Overhang Depth | 1.500 ft |  | Area Weighted Average SHGC | 0.200 | 8 | Skylights | Description      Area |  | U-Factor (AVG) | N/A      N/A ft <sup>2</sup> |  | SHGC (AVG) | N/A | 9 | Floor Types | Insulation      Area | a | Slab-On-Grade Edge Insulation | R= 0.0      1205.00 ft <sup>2</sup> | b | N/A | R=      ft <sup>2</sup> | c | N/A | R=      ft <sup>2</sup> | <table> <tr> <td>10</td> <td>Wall Types(1260.0 sqft)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a</td> <td>Frame - Steel, Exterior</td> <td>R=19.0</td> <td>720.00 ft<sup>2</sup></td> </tr> <tr> <td>b</td> <td>Frame - Steel, Exterior</td> <td>R=13.0</td> <td>270.00 ft<sup>2</sup></td> </tr> <tr> <td>c</td> <td>Frame - Wood, Adjacent</td> <td>R=13.0</td> <td>270.00 ft<sup>2</sup></td> </tr> <tr> <td>d</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>Ceiling Types(1205.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a</td> <td>Single assembly, no ai (Unvented)</td> <td>R=30.0</td> <td>1205.00 ft<sup>2</sup></td> </tr> <tr> <td>b</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>c</td> <td>N/A</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>Roof(Metal, Unvent)</td> <td>Deck R=30.0</td> <td>1270 ft<sup>2</sup></td> </tr> <tr> <td>13</td> <td>Ducts, location &amp; insulation level</td> <td>R</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>a</td> <td>Sup Main, Ret Main, AH Garage</td> <td>6</td> <td>241</td> </tr> <tr> <td>b</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c</td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>Cooling Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a</td> <td>Central Unit</td> <td>24.0</td> <td>SEER2 16.00</td> </tr> <tr> <td>15</td> <td>Heating Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a</td> <td>Electric Heat Pump</td> <td>24.0</td> <td>HSPF2 16.00</td> </tr> <tr> <td>16</td> <td>Hot Water Systems</td> <td></td> <td></td> </tr> <tr> <td>a</td> <td>Electric Tankless</td> <td></td> <td>Cap 1 gallons</td> </tr> <tr> <td></td> <td></td> <td></td> <td>EF 0.920</td> </tr> <tr> <td>b</td> <td>Conservation features</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>None</td> </tr> <tr> <td>17</td> <td>Credits</td> <td></td> <td>CF, Pstat</td> </tr> </table> | 10 | Wall Types(1260.0 sqft) | Insulation | Area | a | Frame - Steel, Exterior | R=19.0 | 720.00 ft <sup>2</sup> | b | Frame - Steel, Exterior | R=13.0 | 270.00 ft <sup>2</sup> | c | Frame - Wood, Adjacent | R=13.0 | 270.00 ft <sup>2</sup> | d | N/A |  |  | 11 | Ceiling Types(1205.0 sqft.) | Insulation | Area | a | Single assembly, no ai (Unvented) | R=30.0 | 1205.00 ft <sup>2</sup> | b | N/A |  |  | c | N/A |  |  | 12 | Roof(Metal, Unvent) | Deck R=30.0 | 1270 ft <sup>2</sup> | 13 | Ducts, location & insulation level | R | ft <sup>2</sup> | a | Sup Main, Ret Main, AH Garage | 6 | 241 | b |  |  |  | c |  |  |  | 14 | Cooling Systems | kBtu/hr | Efficiency | a | Central Unit | 24.0 | SEER2 16.00 | 15 | Heating Systems | kBtu/hr | Efficiency | a | Electric Heat Pump | 24.0 | HSPF2 16.00 | 16 | Hot Water Systems |  |  | a | Electric Tankless |  | Cap 1 gallons |  |  |  | EF 0.920 | b | Conservation features |  |  |  |  |  | None | 17 | Credits |  | CF, Pstat |
| 1  | New construction or existing                          | New (From Plans)                       |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 2  | Single family or multiple family                      | Detached                               |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 3  | Number of units, if multiple family                   | 1                                      |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 4  | Number of Bedrooms                                    | 2                                      |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 5  | Is this a worst case?                                 | No                                     |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 6  | Conditioned floor area above grade (ft <sup>2</sup> ) | 1205                                   |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | Conditioned floor area below grade (ft <sup>2</sup> ) | 0                                      |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 7  | Windows(34.5 sqft.)                                   | Description      Area                  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | U-Factor  | Dbl, U=0.26      34.50 ft <sup>2</sup> |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | SHGC  | SHGC=0.20                              |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| b  | U-Factor  | N/A      ft <sup>2</sup>               |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | SHGC  |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| c  | U-Factor  | N/A      ft <sup>2</sup>               |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | SHGC  |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | Area Weighted Average Overhang Depth                  | 1.500 ft                               |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | Area Weighted Average SHGC                            | 0.200                                  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 8  | Skylights   | Description      Area                  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | U-Factor (AVG)  | N/A      N/A ft <sup>2</sup>           |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  | SHGC (AVG)  | N/A                                    |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 9  | Floor Types   | Insulation      Area                   |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Slab-On-Grade Edge Insulation                         | R= 0.0      1205.00 ft <sup>2</sup>    |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| b  | N/A   | R=      ft <sup>2</sup>                |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| c  | N/A   | R=      ft <sup>2</sup>                |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 10   | Wall Types(1260.0 sqft)                               | Insulation                             | Area                    |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Frame - Steel, Exterior                               | R=19.0                                 | 720.00 ft <sup>2</sup>  |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| b  | Frame - Steel, Exterior                               | R=13.0                                 | 270.00 ft <sup>2</sup>  |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| c  | Frame - Wood, Adjacent                                | R=13.0                                 | 270.00 ft <sup>2</sup>  |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| d  | N/A   |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 11   | Ceiling Types(1205.0 sqft.)                           | Insulation                             | Area                    |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Single assembly, no ai (Unvented)                     | R=30.0                                 | 1205.00 ft <sup>2</sup> |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| b  | N/A   |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| c  | N/A   |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 12   | Roof(Metal, Unvent)                                   | Deck R=30.0                            | 1270 ft <sup>2</sup>    |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 13   | Ducts, location & insulation level                    | R                                      | ft <sup>2</sup>         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Sup Main, Ret Main, AH Garage                         | 6                                      | 241                     |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| b  |   |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| c  |   |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 14   | Cooling Systems                                       | kBtu/hr                                | Efficiency              |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Central Unit  | 24.0                                   | SEER2 16.00             |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 15   | Heating Systems                                       | kBtu/hr                                | Efficiency              |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Electric Heat Pump                                    | 24.0                                   | HSPF2 16.00             |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 16   | Hot Water Systems                                     |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| a  | Electric Tankless                                     |  | Cap 1 gallons           |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  |   |  | EF 0.920                |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| b  | Conservation features                                 |  |                         |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
|  |   |  | None                    |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |
| 17   | Credits   |  | CF, Pstat               |   |                                  |          |   |                                     |   |   |                    |   |   |                       |    |   |   |      |  |   |   |   |                     |                       |   |          |  |  |      |           |   |          |                          |  |      |  |   |          |                          |  |      |  |  |                                      |          |  |                            |       |   |           |                       |  |                |                              |  |            |     |   |             |                      |   |                               |                                     |   |     |                         |   |     |                         |  |    |                         |            |      |   |                         |        |                        |   |                         |        |                        |   |                        |        |                        |   |     |  |  |    |                             |            |      |   |                                   |        |                         |   |     |  |  |   |     |  |  |    |                     |             |                      |    |                                    |   |                 |   |                               |   |     |   |  |  |  |   |  |  |  |    |                 |         |            |   |              |      |             |    |                 |         |            |   |                    |      |             |    |                   |  |  |   |                   |  |               |  |  |  |          |   |                       |  |  |  |  |  |      |    |         |  |           |

|                        |                                     |             |
|------------------------|-------------------------------------|-------------|
| Glass/Floor Area 0.029 | Total Proposed Modified Loads 30.65 | <b>PASS</b> |
|                        | Total Baseline Loads 33.56          |             |

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply

|   |  |
|---|--|
| <p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code</p> <p>PREPARED BY <u></u></p> <p>DATE <u>9-16-24</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code</p> <p>OWNER/AGENT _____</p> <p>DATE _____</p> | <p>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.</p> <div style="text-align: center;">  </div> <p>BUILDING OFFICIAL _____</p> <p>DATE _____</p> |
|---|--|

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.24 ACH50 (R402.4.1.2).

# INPUT SUMMARY CHECKLIST REPORT

## COOLING SYSTEM

| ✓ #   | System Type  | Subtype/Speed | AHRI # | Efficiency | Capacity<br>kBtu/hr | Air Flow<br>cfm | SHR  | Duct  | Block |
|-------|--------------|---------------|--------|------------|---------------------|-----------------|------|-------|-------|
| ___ 1 | Central Unit | None/Single   |        | SEER2 16 0 | 24 0                | 720             | 0 75 | sys#1 | 1     |

## HOT WATER SYSTEM

| ✓ #   | System Type             | Subtype                | Location       | EF(UEF)          | Cap           | Use    | SetPnt                  | Fixture Flow  | Pipe Ins    | Pipe length   |
|-------|-------------------------|------------------------|----------------|------------------|---------------|--------|-------------------------|---------------|-------------|---------------|
| ___ 1 | Electric                | Tankless               | Exterior       | 0 92 (0 92)      | 1 00 gal      | 50 gal | 120 deg                 | Standard      | None        | 99            |
|       | Recirculation<br>System | Recirc Control<br>Type | Loop<br>length | Branch<br>length | Pump<br>power | DWHR   | Facilities<br>Connected | Equal<br>Flow | DWHR<br>Eff | Other Credits |
| ___ 1 | No                      |                        | NA             | NA               | NA            | No     | NA                      | NA            | NA          | None          |

## DUCTS

| ✓ Duct # | Location | Supply<br>R-Value | Area    | Location | Return<br>R-Value | Area   | Leakage Type   | Air<br>Handler | CFM 25<br>TOT | CFM 25<br>OUT | QN<br>OUT | RLF  | HVAC #<br>Heat Cool |
|----------|----------|-------------------|---------|----------|-------------------|--------|----------------|----------------|---------------|---------------|-----------|------|---------------------|
| ___ 1    | Main     | 6 0               | 241 ft² | Main     | 6 0               | 60 ft² | Prop Leak Free | Garage         | ---           | ---           | 0 030     | 0 50 | 1 1                 |

## TEMPERATURES

| Programable Thermostat. Y<br>Cooling <input type="checkbox"/> Jan <input type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Sep <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input type="checkbox"/> Dec<br>Heating <input checked="" type="checkbox"/> Jan <input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec<br>Venting <input type="checkbox"/> Jan <input type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input type="checkbox"/> Dec |                     |          |          |          |          |          |          |          |          |          |          |          |          |
|---|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Ceiling Fans N<br>Cooling <input type="checkbox"/> Jan <input type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Sep <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input type="checkbox"/> Dec<br>Heating <input checked="" type="checkbox"/> Jan <input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec<br>Venting <input type="checkbox"/> Jan <input type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input type="checkbox"/> Dec            |                     |          |          |          |          |          |          |          |          |          |          |          |          |
| ✓ Thermostat Schedule   | HERS 2006 Reference | Hours    |          |          |          |          |          |          |          |          |          |          |          |
| Schedule Type   |                     | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       |
| ___ Cooling (WD)  | AM<br>PM            | 78<br>80 | 78<br>80 | 78<br>80 | 78<br>80 | 78<br>78 | 78<br>78 | 78<br>78 | 78<br>78 | 80<br>78 | 80<br>78 | 80<br>78 | 80<br>78 |
| ___ Cooling (WEH)   | AM<br>PM            | 78<br>80 | 78<br>80 | 78<br>80 | 78<br>80 | 78<br>78 | 78<br>78 | 78<br>78 | 78<br>78 | 80<br>78 | 80<br>78 | 80<br>78 | 80<br>78 |
| ___ Heating (WD)  | AM<br>PM            | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 68<br>68 | 68<br>68 | 68<br>68 | 68<br>68 | 68<br>68 |
| ___ Heating (WEH)   | AM<br>PM            | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 65<br>68 | 68<br>68 | 68<br>68 | 68<br>68 | 68<br>68 | 68<br>68 |