

## CODE INTERPRETATION/POLICY

| <b>Code/Year</b><br>2021 IRC<br>International Residential<br>Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Section of Code</b><br>R301.2       | <b>Title of Code Section/Subsection/Policy</b><br>Climatic and geographic design criteria                                     |                                            |                                            |                                        |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |
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| <b>Statement/Background of Issue</b><br><p>In March 2025, county adopted design criteria that are published in the Executive Regulation 13-24. Table R301.2 displays the required criteria for residential buildings construction, including Manual J Design Criteria. However, the table was published with inaccurate criteria.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                                                                                                                               |                                            |                                            |                                        |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |
| <b>Division Interpretation/Policy</b><br><p>This policy establishes the corrected design criteria in Table R301.2 to ensure HVAC systems are accurately sized for optimal performance, efficiency, and comfort, as required by adopted legislation.</p> <p>Manual J Design Criteria</p> <table border="1"> <tr> <th>Latitude</th><th>Coincident wet bulb</th><th>Indoor winter design relative humidity</th><th>Indoor winter design dry-bulb temperature</th><th>Outdoor winter design dry-bulb temperature</th><th>Heating temperature difference</th></tr> <tr> <td>39°N</td><td>76°F</td><td>50%</td><td>70°F</td><td>14°F</td><td>56°F</td></tr> <tr> <th>Daily range</th><th>Indoor summer design relative humidity</th><th>Indoor summer design dry-bulb temperature</th><th>Outdoor summer design dry-bulb temperature</th><th colspan="2">Cooling temperature difference</th></tr> <tr> <td>M</td><td>50%</td><td>75°F</td><td>92°F</td><td colspan="2">17°F</td></tr> </table> |                                        |                                                                                                                               | Latitude                                   | Coincident wet bulb                        | Indoor winter design relative humidity | Indoor winter design dry-bulb temperature | Outdoor winter design dry-bulb temperature | Heating temperature difference | 39°N | 76°F | 50% | 70°F | 14°F | 56°F | Daily range | Indoor summer design relative humidity | Indoor summer design dry-bulb temperature | Outdoor summer design dry-bulb temperature | Cooling temperature difference |  | M | 50% | 75°F | 92°F | 17°F |  |
| Latitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Coincident wet bulb                    | Indoor winter design relative humidity                                                                                        | Indoor winter design dry-bulb temperature  | Outdoor winter design dry-bulb temperature | Heating temperature difference         |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |
| 39°N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 76°F                                   | 50%                                                                                                                           | 70°F                                       | 14°F                                       | 56°F                                   |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |
| Daily range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Indoor summer design relative humidity | Indoor summer design dry-bulb temperature                                                                                     | Outdoor summer design dry-bulb temperature | Cooling temperature difference             |                                        |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50%                                    | 75°F                                                                                                                          | 92°F                                       | 17°F                                       |                                        |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |
| <b>Interpretation/Policy No.</b><br>RCFCCP 2-2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Date</b><br>11.5.2025               | George Muste<br><b>Division Chief</b><br> |                                            |                                            |                                        |                                           |                                            |                                |      |      |     |      |      |      |             |                                        |                                           |                                            |                                |  |   |     |      |      |      |  |