

| Right-J™ Worksheet |                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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---|------|--------------------|--|--|--|--|--|--|--|--|-----|-----|--|--|----|----|
| 1                  |                     |           | Room name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | East 2nd Floor                                                        |                                   | <input type="text" value="Room1"/>       |      |                 |      |                              |      |              |      |                              |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |  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     |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
| 2                  |                     |           | Exposed wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 40.0 ft                                                               | <input type="text" value="20.0"/> |                                          |      |                 |      |                              |      |              |      |                              |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |  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     |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
| 3                  |                     |           | Ceiling height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.0                                                                   | <input type="text" value="8.0"/>  | <input type="button" value="heat/cool"/> |      |                 |      |                              |      |              |      |                              |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      | 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| 4                  |                     |           | Room dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 5                  |                     |           | Room area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|                    |                     |           | <table border="1"> <thead> <tr> <th rowspan="2">Ty</th> <th rowspan="2">Construction number</th> <th rowspan="2">U-value</th> <th rowspan="2">Or</th> <th colspan="2">HTM (Btu/h/ft²)</th> <th colspan="2">Area (ft²) or perimeter (ft)</th> <th colspan="2">Load (Btu/h)</th> <th colspan="2">Area (ft²) or perimeter (ft)</th> <th colspan="2">Load (Btu/h)</th> </tr> <tr> <th>Heat</th> <th>Cool</th> <th>Gross</th> <th>NPIS</th> <th>Heat</th> <th>Cool</th> <th>Gross</th> <th>NPIS</th> <th>Heat</th> <th>Cool</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>M</td> <td>13AA-01c</td> <td>0.304</td> <td>-</td> <td>16.11</td> <td>5.898</td> <td>80</td> <td>80</td> <td>1289</td> <td>472</td> <td>80</td> <td>80</td> <td>1289</td> <td>472</td> </tr> <tr> <td></td> <td>M</td> <td>13AA-01d</td> <td>0.304</td> <td>-</td> <td>16.11</td> <td>5.898</td> <td>140</td> <td>140</td> <td>2578</td> <td>944</td> <td>80</td> <td>80</td> <td>1289</td> <td>472</td> </tr> <tr> <td></td> <td>M</td> <td>13AA-01c</td> <td>0.304</td> <td>-</td> <td>16.11</td> <td>5.898</td> <td>80</td> <td>80</td> <td>1289</td> <td>472</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td></td> <td>M</td> <td>13AA-01c</td> <td>0.304</td> <td>-</td> <td>0.000</td> <td>0.000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>11</td> <td>C</td> <td>14B-10ad</td> <td>0.033</td> <td>-</td> <td>1.444</td> <td>1.444</td> <td>200</td> <td>200</td> <td>339</td> <td>333</td> <td>100</td> <td>100</td> <td>170</td> <td>166</td> </tr> <tr> <td></td> <td>F</td> <td>19A-19bcp</td> <td>0.049</td> <td>-</td> <td>2.035</td> <td>0.614</td> <td>200</td> <td>200</td> <td>407</td> <td>123</td> <td>100</td> <td>100</td> <td>204</td> <td>61</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="7">Total room load</td> <td></td> <td></td> <td>7190</td> <td>2829</td> <td></td> <td></td> <td>3595</td> <td>1415</td> </tr> <tr> <td colspan="7">Air required (cfm)</td> <td></td> <td></td> <td>123</td> <td>123</td> <td></td> <td></td> <td>61</td> <td>61</td> </tr> </tbody> </table> | Ty                                                                    | Construction number               | U-value                                  | Or   | HTM (Btu/h/ft²) |      | Area (ft²) or perimeter (ft) |      | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |  | Load (Btu/h) |  | Heat | Cool | Gross | NPIS | Heat | Cool | Gross | NPIS | Heat | Cool | 6 | M | 13AA-01c | 0.304 | - | 16.11 | 5.898 | 80 | 80 | 1289 | 472 | 80 | 80 | 1289 | 472 |  | M | 13AA-01d | 0.304 | - | 16.11 | 5.898 | 140 | 140 | 2578 | 944 | 80 | 80 | 1289 | 472 |  | M | 13AA-01c | 0.304 | - | 16.11 | 5.898 | 80 | 80 | 1289 | 472 | 0 | 0 | 0 | 0 |  | M | 13AA-01c | 0.304 | - | 0.000 | 0.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | C | 14B-10ad | 0.033 | - | 1.444 | 1.444 | 200 | 200 | 339 | 333 | 100 | 100 | 170 | 166 |  | F | 19A-19bcp | 0.049 | - | 2.035 | 0.614 | 200 | 200 | 407 | 123 | 100 | 100 | 204 | 61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total room load |  |  |  |  |  |  |  |  | 7190 | 2829 |  |  | 3595 | 1415 | Air required (cfm) |  |  |  |  |  |  |  |  | 123 | 123 |  |  | 61 | 61 |
| Ty                 | Construction number | U-value   | Or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |                                   |                                          |      | HTM (Btu/h/ft²) |      | Area (ft²) or perimeter (ft) |      | Load (Btu/h) |      | Area (ft²) or perimeter (ft) |  | Load (Btu/h) |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      | 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|                    |                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Heat                                                                  | Cool                              | Gross                                    | NPIS | Heat            | Cool | Gross                        | NPIS | Heat         | Cool |                              |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
| 6                  | M                   | 13AA-01c  | 0.304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                     | 16.11                             | 5.898                                    | 80   | 80              | 1289 | 472                          | 80   | 80           | 1289 | 472                          |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
|                    | M                   | 13AA-01d  | 0.304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                     | 16.11                             | 5.898                                    | 140  | 140             | 2578 | 944                          | 80   | 80           | 1289 | 472                          |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
|                    | M                   | 13AA-01c  | 0.304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                     | 16.11                             | 5.898                                    | 80   | 80              | 1289 | 472                          | 0    | 0            | 0    | 0                            |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
|                    | M                   | 13AA-01c  | 0.304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                     | 0.000                             | 0.000                                    | 0    | 0               | 0    | 0                            | 0    | 0            | 0    | 0                            |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
| 11                 | C                   | 14B-10ad  | 0.033                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                     | 1.444                             | 1.444                                    | 200  | 200             | 339  | 333                          | 100  | 100          | 170  | 166                          |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
|                    | F                   | 19A-19bcp | 0.049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                     | 2.035                             | 0.614                                    | 200  | 200             | 407  | 123                          | 100  | 100          | 204  | 61                           |  |              |  |      |      |       |      |      |      |       |      |      |      |   |   |          |       |   |       |       |    |    |      |     |    |    |      |     |  |   |          |       |   |       |       |     |     |      |     |    |    |      |     |  |   |          |       |   |       |       |    |    |      |     |   |   |   |   |  |   |          |       |   |       |       |   |   |   |   |   |   |   |   |    |   |          |       |   |       |       |     |     |     |     |     |     |     |     |  |   |           |       |   |       |       |     |     |     |     |     |     |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |      |      |  |  |      |      |                    |  |  |  |  |  |  |  |  |     |     |  |  |    |    |
|                    |                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                    |                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Total room load    |                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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# How To Do A Manual D Calculation

**Philip Ellenberger**



## How To Do A Manual D Calculation:

**Manual J - Residential Load Calculation** Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions Piping and Pipeline Calculations Manual Philip Ellenberger, 2014-01-22 Piping and Pipeline Calculations Manual Second Edition provides engineers and designers with a quick reference guide to calculations codes and standards applicable to piping systems The book considers in one handy reference the multitude of pipes flanges supports gaskets bolts valves strainers flexibles and expansion joints that make up these often complex systems It uses hundreds of calculations and examples based on the author's 40 years of experiences as both an engineer and instructor Each example demonstrates how the code and standard has been correctly and incorrectly applied Aside from advising on the intent of codes and standards the book provides advice on compliance Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer manufacturer fabricator supplier erector examiner inspector and owner to do to prevent such failures The book enhances participants understanding and application of the spirit of the code or standard and form a plan for compliance The book covers American Water Works Association standards where they are applicable Updates to major codes and standards such as ASME B31.1 and B31.2 New methods for calculating stress intensification factor SIF and seismic activities Risk based analysis based on API 579 and B31.4 Covers the Pipeline Safety Act and the creation of PhMSA *HyperVentilate Users Manual* Paul C. Johnson, 1992 *Manual of Pharmacologic Calculations* Ronald J. Tallarida, Rodney B. Murray, 2012-12-06 This book contains a collection of quantitative procedures in common use in pharmacology and related disciplines It is intended for students and researchers in all fields who work with drugs Many physicians especially those concerned with clinical pharmacology will also find much that is useful The procedures included may be considered core since they are generally applicable to all classes of drugs Some of the procedures deal with statistics and hence have even wider application In this new edition we have increased the number of procedures from 33 in the first edition to 48 Other procedures have been revised and expanded Yet the basic philosophy of this new edition remains unchanged from the first That is the pharmacologic basis of each procedure is presented along with the necessary formulas and one or more worked examples An associated computer program is included for each procedure and its use is illustrated with the same worked example used in the text The discussions of theory and the sample computations are brief and self contained so that all computations can be made with the aid of a pocket calculator and the statistical tables contained in Appendix A Yet it is realized that the proliferation of lower priced microcomputers is likely to

mean that more and more readers will utilize a computer for most calculations Accordingly we have modified the format of the book to facilitate computer usage      **Steam Plant Calculations Manual, Revised and Expanded**

Ganapathy,2017-11-22 Maintaining a question and answer format this second edition provides simplified means of solving nearly 200 practical problems that confront engineers involved in the planning design operation and maintenance of steam plant systems Calculations pertaining to emissions boiler efficiency circulation and heat transfer equipment design and performance are provided Solutions to 70 new problems are featured in this edition      *Transmission Pipeline Calculations and Simulations Manual* E. Shashi Menon,2014-12-27 Transmission Pipeline Calculations and Simulations Manual is a valuable time and money saving tool to quickly pinpoint the essential formulae equations and calculations needed for transmission pipeline routing and construction decisions The manual s three part treatment starts with gas and petroleum data tables followed by self contained chapters concerning applications Case studies at the end of each chapter provide practical experience for problem solving Topics in this book include pressure and temperature profile of natural gas pipelines how to size pipelines for specified flow rate and pressure limitations and calculating the locations and HP of compressor stations and pumping stations on long distance pipelines Case studies are based on the author s personal field experiences Component to system level coverage Save time and money designing pipe routes well Design and verify piping systems before going to the field Increase design accuracy and systems effectiveness      *Drainage Manual* ,1993      Drainage Manual United States. Bureau of Reclamation,1978      **Solutions Manual for An Introduction to Genetic Analysis** David Scott,2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at [www.whfreeman.com](http://www.whfreeman.com) IGA10epreview      **Accountant and Bookkeepers's Manual of Commercial Calculations Reduced to Their Utmost Simplicity** Ernst,1871

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