

# **Course Description**

Resent changes to Energy Codes in regard to exterior wall and roof insulation requirements as well as air sealing are forcing builders to look hard at alternate framing and insulating techniques. This course will explain the benefits of building with Structural Insulated Panels (SIPs) for residential applications. The attendee will gain a better understanding of SIP products, construction, assembly and detailing in order to properly utilize SIPs for optimum energy efficiency, labor savings, and durability. The attendee will walk away from the course with a better understanding of how SIPs can be a suitable construction method for current building industry standards.

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### **LEARNING OBJECTIVES**

- 1. Describe and define SIPs and their residential applications
- 2. Explain energy-efficiency construction strategies utilizing SIPs
- 3. Illustrate SIP design and engineering methods and standards
- 4. Illustrate SIP construction methods and applications

## **COURSE OUTLINE**

- SIP basics
- SIP applications Walls, Roofs, Floors
- Energy efficiency and green building with SIPs
- Designing with SIPs
- Engineering for SIPs
- SIP manufacturing
- SIP construction

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## **WHAT ARE SIPS?**

- Originally developed as "stressed-skin" panels in the 1930's - tested at the Forest Products Laboratory in Madison, WI
- The concept was to minimize and eventually eliminate the framing by using the skins to carry the loads
- Foam cores were introduced in 1969 to form the modern structural insulated panel

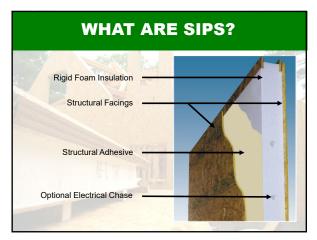
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### **WHAT ARE SIPS?**



# SIP = Structural Insulated Panel

- Composite structural panel
- Rigid foam core EPS, GPS, or PUR
- Structural facings usually 7/16" OSB
- Structural adhesive

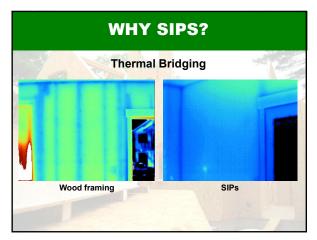


| 9                                 | -Out                | SIP R   | -Values       |          | 1950    |
|-----------------------------------|---------------------|---|---------------|----------|---------|
| SIP Panel<br>Thickness            | 4-5/8"              | 6-1/2"  | 8-1/4"        | 10-1/4"  | 12-1/4" |
| EPS                               | 15                  | 23  | 29            | 37       | 45      |
| GPS                               | 18                  | 28  | 36            | 45       | 55      |
| Polyurethane                      | 27                  | 41  | N/A           | N/A      | N/A     |
| can vary<br>Calculate<br>EPS is T | between red R-Value | manufacturer<br>es include 7/1<br>ASTM C578-0 | 6" OSB on eac | ch side. |         |

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## **WHAT ARE SIPS?**

- Pre-fabricated, pre-insulated stud wall panels are not SIPs
- SIPs replace traditional wall studs to provide a better R-value over the entire wall surface (whole-wall R-value)
- The idea is to use the OSB as the load bearing element, instead of studs. The bearing area provided by a SIP wall is equivalent to 2x10 studs @ 16"oc

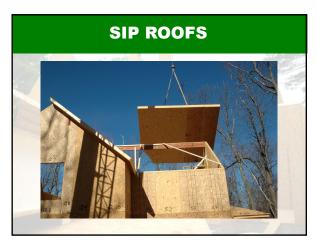








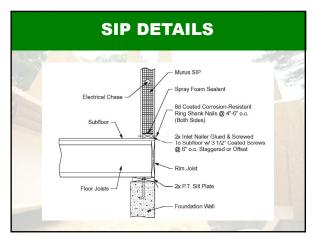


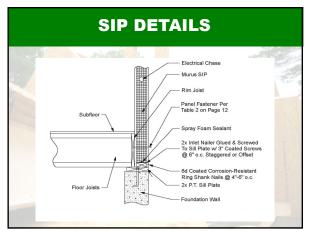


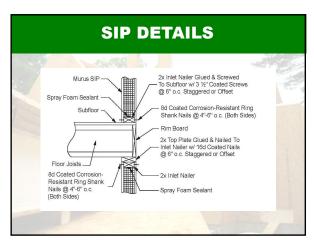


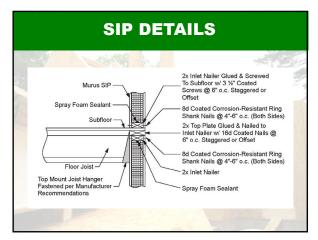


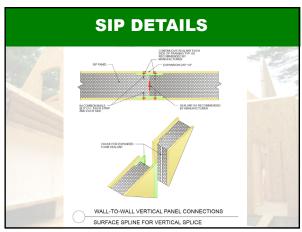




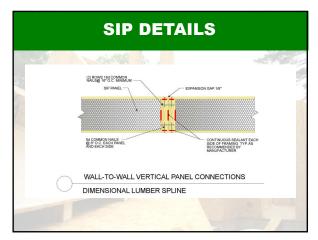


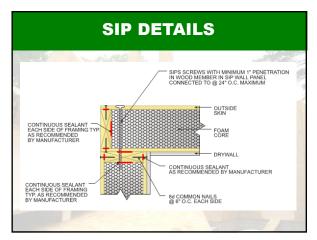




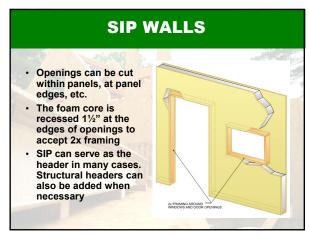


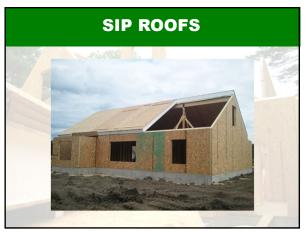


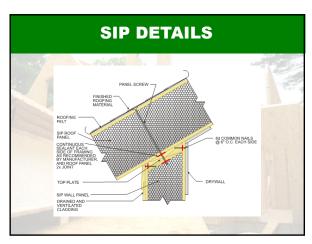


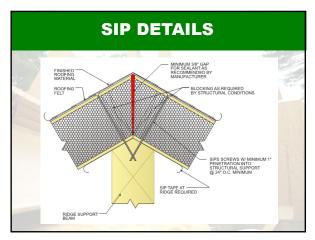


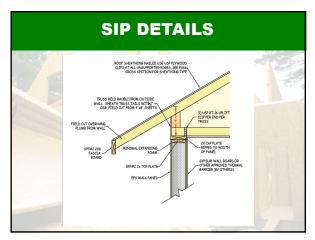




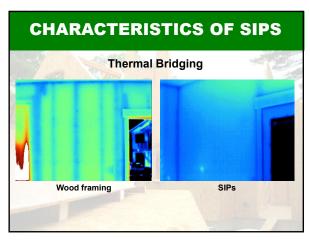


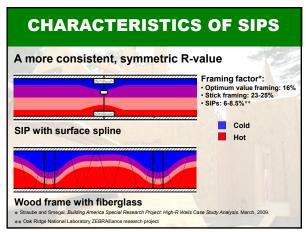


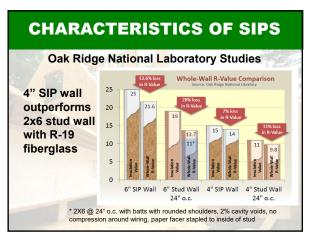


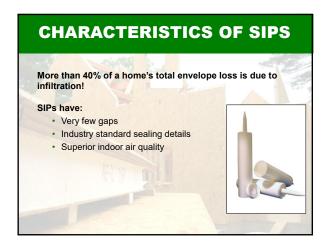


# SIP DETAILS SIPs Electrical • Wall panels can have 1" to 1 1/2" diameter electrical chases. • Horizontally at switch & outlet heights • Vertically, typically 4' OC • Top and bottom plates are drilled during installation to access the vertical electrical chases



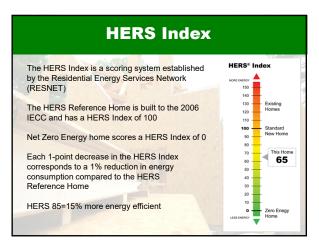






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# SIPs recognized by ENERGY STAR as method to reduce thermal bridging No blower door test required because of superior air sealing Makes qualifying easier and more affordable



### **GREEN BUILDING**

### **Green Building Program Applications**

SIPs can help you achieve the highest levels in all green building programs such as LEED for Homes, the NAHB Green Building Program, EarthCraft, and other state green building programs.

- · SIPs cut down on job site waste
- Low HERS index / more energy efficient helps you achieve more points in most green building programs
- · Resource efficiency for engineered wood products

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# EA - Energy and Atmosphere EA Credit: Annual Energy Use MR - Materials and Resources MR Credit: Environmentally Preferable Products (sheathing) for FSC certified OSB MR Credit: Construction Waste Management Max 3 pts MR Credit: Material-Efficient Framing Max 2 pts EQ - Environmental Quality EQ Credit: Low-Emitting Products 1.5 pts





| Total   Allocation Included Proper No. 5054  | Mary    | Table   Abbestion   Abstract      | Part   | Parameter   Para            | Parameter   Para            | Record Conference   Proceedings   Procedure   Proced   | Part   | Part   | Parameter   Para  | Proceedings   Process      | Application   | Section   Conference   Confer  |  |  | Part   | Note   | April   Apri   |  | Section   Conference   Confer   | Application       | Part   | Part  | Proceedings  | Parameter   Para       | Table   Abstence   A      | Application   Conference   Co   |   | Additional Section   Additional Association   Additional Additio   | Part   | Parameter   Para  | Note   |   | Management   Man     | Parameter   Para   | Manage   M   | Part  | March   Marc   | Parameter   Para   | 2  | Market   M          |
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100 100 100 100 100 100 1</th> <th>  April</th> <th>  April</th> <th>  March   Marc</th> <th>AND 8 8 75 00 90 100 100 100 100 100 100 100 100 1</th> <th>ARP 88 85 75 97 96 96 59 59 59 59 100 1</th> <th>                                     </th> <th>ARP 88 15 75 10 60 16 150 150 150 150 150 150 150 150 150 150</th> <th>Workey         10         81         87         21         82         86         98         98         98         98         78         10         92         10         <th< th=""><th>Age         1         6         7         3         3         8         8         1         2         1         2         1         2         1         2         1         2         1         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2</th><th>  Modes   March   Marc</th><th>  88   87   73   73   74   75   75   75   75   75   75   75</th><th>                                     </th></th<></th> | Age         R         R         2         C         D         D         U         D   | Ward   |   | New   1  | Number   1   | NAME   18   |  | March   Marc        | April 88 8 75 97 90 90 100 100 100 100 100 100 100 100 1   | April  | April   | March   Marc     | AND 8 8 75 00 90 100 100 100 100 100 100 100 100 1  | ARP 88 85 75 97 96 96 59 59 59 59 100 1  |  | ARP 88 15 75 10 60 16 150 150 150 150 150 150 150 150 150 150  | Workey         10         81         87         21         82         86         98         98         98         98         78         10         92         10 <th< th=""><th>Age         1         6         7         3         3         8         8         1         2         1         2         1         2         1         2         1         2         1         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2</th><th>  Modes   March   Marc</th><th>  88   87   73   73   74   75   75   75   75   75   75   75</th><th>                                     </th></th<> | Age         1         6         7         3         3         8         8         1         2         1         2         1         2         1         2         1         2         1         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2  | Modes   March   Marc   | 88   87   73   73   74   75   75   75   75   75   75   75  |   |
| 8 98 98 98 107 107 10 Table 9: Allowable Axial Loads (oil) 13AA<br>10 73 73 73 79 79 79 74 Table 9: Allowable Axial Loads (oil) 13AA<br>Panel Thickness  | 98 98 107 107 10 Table 9: Allowable Asial Loads (ptf) 13.14<br>73 73 79 79 71 Lateral Bruce Spacing Panel Thickness 59 54 63 63 65 65 69 4-59-in, 6-12-in, 8-114-in,   | 1  | 1         1         2         3         3         3         3         3         3         3         3         4         1  | 1   1   2   3   3   3   5   7   7   7   7   7   7   7   7   7   | 1   1   2   3   3   3   5   7   7   7   7   7   7   7   7   7   | 1   2   3   3   4   5   5   7   7   7   7   7   7   7   7  | 1   2   3   3   5   5   7   7   7   7   7   7   7   7  | 1  | 1   1   2   3   3   3   5   5   5   5   5   5   5   | 1  | 1   1   1   1   1   1   1   1   1   1   |   | 1  | 8   8   8   9   107    | 8         98         98         98         97         77         77         79 </th <th>  8</th> <th>  1</th> <th>  98   98   98   167   177   177   178   1</th> <th>                                     </th> <th>  1</th> <th>  1</th> <th>  1</th> <th>  1</th> <th>  1   1   2   3   4   3   5   5   5   5   5   5   5   5   5</th> <th>  1</th> <th>  0   1   2   2   2   2   2   2   2   2   2</th> <th>  9   9   9   9   9   9   9   9   9   9</th> <th>  1</th> <th>  1</th> <th>  1</th> <th>  1</th> <th>  1</th> <th>  1</th> <th>  1   1   2   3   3   3   10   10   10   10   10  </th> <th>  1</th> <th>  1   1   2   3   3   3   5   5   5   5   5   5   5</th> <th>  G   G   G   G   G   G   G   G   G   G</th> <th>  1   1   2   2   3   3   3   3   3   3   3   3</th> <th>                                     </th> <th>  9    8    9    00   00   00   00   00</th> | 8  | 1  | 98   98   98   167   177   177   178   1   |  | 1   | 1  | 1   | 1  | 1   1   2   3   4   3   5   5   5   5   5   5   5   5   5  | 1   | 0   1   2   2   2   2   2   2   2   2   2  | 9   9   9   9   9   9   9   9   9   9   | 1  | 1  | 1   | 1  | 1   | 1  | 1   1   2   3   3   3   10   10   10   10   10   | 1  | 1   1   2   3   3   3   5   5   5   5   5   5   5   | G   G   G   G   G   G   G   G   G   G  | 1   1   2   2   3   3   3   3   3   3   3   3  |  | 9    8    9    00   00   00   00   00   |
| 10 73 73 73 79 79 79 75 Take F. Anowate Asia Look (etc.)   | 73 73 79 79 71 Lateral Brace Spacing Panel Trickness 99 54 63 63 63 63 63 63 63 63 63 63 63 63 63  | 1  | 10   7   7   7   7   7   7   7   7   7   | 19   7   7   7   7   7   7   7   7   7  | 19   7   7   7   7   7   7   7   7   7  | 10   7   7   7   7   7   7   7   7   7   | 19   7   7   7   7   7   7   7   7   7   | 19   | 19   7   7   7   7   7   7   7   7   7  | 10   7   7   7   7   7   7   7   7   7   | 10  | 2   | 0  | 10   7   7   7   7   7   7   7   7   7   | 10   7   73   73   74   75   75   75   75   75   75   75   | 10   7   7   7   7   7   7   7   7   7   | 0 7 7 77 77 78 78 79 79 79 79 79 79 79 79 79 79 79 79 79   |  | 2  | 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7   | 19   | 19  | 19   71   77   77   77   77   77   77  | 10   7   7   7   7   7   7   7   7   7   |   | 72   73   74   75   75   75   75   75   75   75  | 10   7   7   7   7   7   7   7   7   7  | 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7  | 19   | 10  | 10   7   7   7   7   7   7   7   7   7   | 2   | 0  | 19   7   7   7   7   7   7   7   7   7   | 0   7   7   7   7   7   7   7   7   7  | 10   7   7   7   7   7   7   7   7   7  | 17   7   7   7   7   7   7   7   7   7   | 19   7   7   7   7   7   7   7   7   7   | 72   73   73   73   74   75   75   75   75   75   75   75  | 77 77 77 79 79 79 79 79 79 79 79 79 79 7  |
|  | 59 54 63 63 63 63 C Lateral Brace Spacing 4-5% in 6-12-in 8-164 in   | 1  | 12   15   15   15   15   15   15   15  | T2         T3         S3         S4         C3         C3         C4         Feet Mark         C545 Mark         C545 Mark         E184 Mark         C545 Mark  | T2         T3         S3         S4         C3         C3         C4         Feet Mark         C545 Mark         C545 Mark         E184 Mark         C545 Mark  | TZ         TS         S3         S4         CS         CS         CS         LEMB (MS)         CSS-NS         CSS-NS         EARLING           ML         A2         A2         TS         A4         A5         A8         A8         A9         A9 </td <td>  12   13   15   15   15   15   15   15   15</td> <td>  12   50   50   54   61   62   62   63   64   64   64   64   64   64   64</td> <td>T2         T3         T3         T4         T3         T3         T4         T4&lt;</td> <td>                                     </td> <td>  12   20   30   54   43   30   54   44   44   44   44   44   45  </td> <td>2 9 99 54 60 00 00 00 00 00 00 00 00 00 00 00 00</td> <td>2 5 5 5 5 5 6 6 0 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6</td> <td>  22   55   55   54   63   63   62                                  </td> <td>  12   59   59   54   63   63   63   65                                  </td> <td>  22   55   55   54   63   63   62                                  </td> <td>2 5 5 5 5 5 6 23 23 25 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td> <td>2 5 5 5 5 5 5 6 6 7 5 5 5 6 7 5 7 5 7 5 7</td> <td>2 9 99 54 60 00 00 00 00 00 00 00 00 00 00 00 00</td> <td>2 9 9 9 54 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0</td> <td>  12   50   50   54   61   62   62   63   64   64   64   64   64   64   64</td> <td>  12   12   13   14   15   15   15   15   15   15   15</td> <td>  12   59   59   54   67   67   67   67   67   67   67   6</td> <td>  Text   Text  </td> <td>  10   10   10   10   10   10   10   10</td> <td>  59   55   54   62   62   62   64   64   64   64   6</td> <td>                                     </td> <td>2 5 5 5 14 0 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td> <td>                                     </td> <td>                                     </td> <td>  17   17   17   17   17   17   17   17</td> <td>2 9 9 19 14 00 00 10 15 14 00 00 10 10 10 10 10 10 10 10 10 10 10</td> <td>2 9 9 50 14 00 60 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16</td> <td>T2         50         50         54         61         32         52         42         64&lt;</td> <td>2 9 9 50 14 00 0 0 15 1 10 1 10 1 10 1 10 1 1</td> <td>  17   17   17   17   17   17   17   17</td> <td>  19   19   19   19   19   19   19   19</td> <td>T2         50         50         55         61         62         62         62         62         63&lt;</td> <td>  55   55   55   52   0   0   0   0   0   0   0   0   0  </td> <td>  59   54   57   50   51   52   52   53   54   54   54   54   54   54   54</td> | 12   13   15   15   15   15   15   15   15   | 12   50   50   54   61   62   62   63   64   64   64   64   64   64   64   | T2         T3         T3         T4         T3         T3         T4         T4<  |  | 12   20   30   54   43   30   54   44   44   44   44   44   45  | 2 9 99 54 60 00 00 00 00 00 00 00 00 00 00 00 00  | 2 5 5 5 5 5 6 6 0 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  | 22   55   55   54   63   63   62   | 12   59   59   54   63   63   63   65  | 22   55   55   54   63   63   62   | 2 5 5 5 5 5 6 23 23 25 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7   | 2 5 5 5 5 5 5 6 6 7 5 5 5 6 7 5 7 5 7 5 7  | 2 9 99 54 60 00 00 00 00 00 00 00 00 00 00 00 00   | 2 9 9 9 54 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0  | 12   50   50   54   61   62   62   63   64   64   64   64   64   64   64   | 12   12   13   14   15   15   15   15   15   15   15  | 12   59   59   54   67   67   67   67   67   67   67   6   | Text          | 10   10   10   10   10   10   10   10   | 59   55   54   62   62   62   64   64   64   64   6  |   | 2 5 5 5 14 0 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7   |  |   | 17   17   17   17   17   17   17   17  | 2 9 9 19 14 00 00 10 15 14 00 00 10 10 10 10 10 10 10 10 10 10 10   | 2 9 9 50 14 00 60 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16  | T2         50         50         54         61         32         52         42         64<   | 2 9 9 50 14 00 0 0 15 1 10 1 10 1 10 1 10 1 1  | 17   17   17   17   17   17   17   17   | 19   19   19   19   19   19   19   19  | T2         50         50         55         61         62         62         62         62         63<   | 55   55   55   52   0   0   0   0   0   0   0   0   0  | 59   54   57   50   51   52   52   53   54   54   54   54   54   54   54  |
|  |  | 64         66         61         21         22         52         FRAME         220         329         399         399         399         399         399         399         399         399         399         44         61         8         5000         670         400   | 44         61         62         61         61         62         52         52         52         530         630         430         530         630         430         530         630         430         530         630         430         530         630         430         530         530         630         430         530         630   | M   | M   | M.         6.         6.         4.1         5.         2.         2.         1.         3.         1.         2.         1.         3.         1.         2.         1.         3.         1.         3.         1.         3.         1.         3.         1.         3.         1.         3.         1.         3.         1.         3.         3.         3.         3.         3.         3.         3.         3.         3.         3.         3.         3.   | M 4 4 4 41 52 52 52 52 53 54 54 44 8 5 70 70 70 70 70 70 70 70 70 70 70 70 70  | 14   4   61   61   71   22   22   75   75   75   75   75   75  | M   |  | M.         4.         6.         6.1         1.2         2.2         1.5         1.0         1.0         2.7         2.7         2.7         3.0         2.0         1.0         1.0         1.0         2.0  | X         40         41         41         52         52         52         THOM         7502   | 4 49 49 41 52 32 55  | M4   | 14         49         49         41         52         52         52         55         WMAP         2320         2470         2850           6         42         42         31         44         44         4         8         3533         4070         4240           16         37         36         24         39         39         32         10         2350         3600         4150   | M4   | 4 4 9 49 41 52 52 55   | 4         48         49         41         52         22         55         Number         2320         2200         2200         2300         200         2300         2300         200         2300         2300         200         2300         2300         200         200         200         200         200         4500         4400         4100           3         3         3         9         19         3         32         9         100         300         450  | X         40         41         41         52         52         52         THOM         7502  | 4 4 4 4 41 52 52 52 FEMP 770 770 770 780 780 780 780 780 780 780  | 14   4   61   61   71   22   22   75   75   75   75   75   75  | 44         63         62         61         23         22         25         5         FRANCE         700         200   | M.         G2         G2         G1         M         G2         C2         C2 </td <td>  14</td> <td>14         68         69         41         22         32         52         ENMIN         222         32         52         ENMIN         222         32         52         ENMIN         222         32         52         ENMIN         32         44         32         32         32         32         32         44         32         32         32         32         44         32         32         32         44         32         32         32         32         44         32         32         32         32         44         32</td> <td>  01   02   03   04   05   05   05   05   05   05   05</td> <td>M.         6.         6.         6.1         4.1         2.2         2.2         1.5         1.00M*         27202         2747         3593           Mg         CJ         CJ         3.6         4.1         4.1         4.1         4.5         3.0         4.0</td> <td>4 6 6 6 41 52 52 52 51 51 51 51 51 51 51 51 51 51 51 51 51</td> <td>M.         6.         6.         4.1         5.         2.         2.         1.00</td> <td>  March   Add   Ad</td> <td>  M</td> <td>4 6 6 6 64 12 52 52 55 54 180 180 180 180 180 180 180 180 180 180</td> <td>4 6 6 60 61 52 52 52 5 5 6 60 60 60 60 60 60 60 60 60 60 60 60 6</td> <td>  M</td> <td>4 6 6 60 61 52 52 52 5 5 6 60 60 60 60 60 60 60 60 60 60 60 60 6</td> <td>  Mail</td> <td>  1</td> <td>  M.   41   41   42   52   52   52   53   54   54   54   54   54   54   54</td> <td>40 40 41 12 22 12 12 14 14 14 18 18 202 20 15 19 19 19 19 19 19 19 19 19 19 19 19 19</td> <td>  62   42   41   52   52   52   1   1   1   1   1   1   1   1   1  </td> | 14   | 14         68         69         41         22         32         52         ENMIN         222         32         52         ENMIN         222         32         52         ENMIN         222         32         52         ENMIN         32         44         32         32         32         32         32         44         32         32         32         32         44         32         32         32         44         32         32         32         32         44         32         32         32         32         44         32   | 01   02   03   04   05   05   05   05   05   05   05   | M.         6.         6.         6.1         4.1         2.2         2.2         1.5         1.00M*         27202         2747         3593           Mg         CJ         CJ         3.6         4.1         4.1         4.1         4.5         3.0         4.0  | 4 6 6 6 41 52 52 52 51 51 51 51 51 51 51 51 51 51 51 51 51   | M.         6.         6.         4.1         5.         2.         2.         1.00  | March   Add   Ad  | M  | 4 6 6 6 64 12 52 52 55 54 180 180 180 180 180 180 180 180 180 180   | 4 6 6 60 61 52 52 52 5 5 6 60 60 60 60 60 60 60 60 60 60 60 60 6   | M  | 4 6 6 60 61 52 52 52 5 5 6 60 60 60 60 60 60 60 60 60 60 60 60 6   | Mail  | 1  | M.   41   41   42   52   52   52   53   54   54   54   54   54   54   54   | 40 40 41 12 22 12 12 14 14 14 18 18 202 20 15 19 19 19 19 19 19 19 19 19 19 19 19 19   | 62   42   41   52   52   52   1   1   1   1   1   1   1   1   1   |
|  |  | 98 42 42 31 44 44 4 1 8 550 677 608 707 608 707 70 70 70 70 70 70 70 70 70 70 70 70  | 15   | 15  | 15  | 15   | 16         d. 2         31         4.4         44         4.2         1.         555         667         669   | 16         22         42         31         44         44         8         50323         6079         436           19         57         36         24         39         32         10         53503         6000         4100           20         23         29         19         34         34         26         12         2810         5000         6000         4500           22         29         23         15         31         31         21         14          3500         3850         3850           22         29         20         15         31         31         21         21         44          3500         3850           33         44         25         45         31         24         32         32         32         32         32         33         32         33         34         32         34         33         34   | 15  | 15   | 16         4.2         4.2         3.1         4.4         4.4         4.1         8         50502         6070         4.5           8.0         3.7         5.0         2.4         3.9         3.9         3.7         4.0         3.7         3.0         3.0         3.0         4.0   | 3 4 42 23 14 44 44 41 8 5500 6070 4340<br>13 77 50 24 54 54 54 51 50 500 5000 6070 4340<br>10 72 72 72 72 72 72 72 72 72 72 72 72 72  | 6 42 42 31 44 44 41 8 3693 4670 4340<br>9 77 36 24 39 39 32 10 3590 3590 4150<br>0 32 29 19 34 34 32 21 12 2815 3600 4650  | 166         42         42         31         44         44         4         8         3633         4070         4340           188         37         36         24         39         39         32         10         3590         3600         4130           300         32         29         19         34         34         24         192         2810         3600         4600           300         32         29         19         34         34         24         192         2810         3600         4600  | 16         42         42         31         44         44         41         8         3633         4075         4240           18         37         36         24         39         39         32         10         3260         3660         4130   | 16         42         42         31         44         44         4         8         3633         4070         4240           18         37         36         34         39         39         32         10         3690         3690         4150           00         32         29         19         34         34         26         12         2815         3600         3600         4000  | 6 42 42 31 44 44 41 8 3600 4070 4340<br>8 37 56 24 39 39 32 10 10 3360 3860 4150<br>0 32 29 19 34 34 26 12 12 2850 360 4000  | 3         42         42         31         44         44         41         8         3633         4070         4340           3         7         36         24         39         32         10         380         3800         4150           3         32         29         19         34         34         22         12         2815         3600         4600  | 3 4 42 23 14 44 44 41 8 5500 6070 4340<br>13 77 50 24 54 54 54 51 50 500 5000 6070 4340<br>10 72 72 72 72 72 72 72 72 72 72 72 72 72   | 6 42 42 31 44 44 41 8 5050 6070 6070 6070 6070 6070 6070 6070   | 16         22         42         31         44         44         8         50323         6079         436           19         57         36         24         39         32         10         53503         6000         4100           20         23         29         19         34         34         26         12         2810         5000         6000         4500           22         29         23         15         31         31         21         14          3500         3850         3850           22         29         20         15         31         31         21         21         44          3500         3850           33         44         25         45         31         24         32         32         32         32         32         33         32         33         34         32         34         33         34   | 16         22         42         31         44         44         41         8         3532         6070         4500           18         37         36         24         39         39         32         10         2500         3500         3600         4300           20         22         29         19         34         34         27         12         2913         3000         4000           22         20         23         15         31         31         21         14          3300         3300         3300           22         20         20         15         31         31         21         14          3300         3300         3300           33         34         34         25         14          3300         3300         3300           34         35         35         36         34  | 66         42         42         31         44         44         41         8         5000         679         626           86         37         38         34         39         39         35         10         300         360         360         430           90         32         29         19         34         34         2f         12         2810         500         600         600           22         20         22         15         31         31         21         44         -         380         380         380           32         20         15         31         31         21         44         -         380         380         380           33         24         36         36         36         36         36         380         380   | Mr.         20         G2         31         44         44         41         8         933         667         669  | 96 42 42 31 44 44 41 8 9 90 90 90 90 90 90 90 90 90 90 90 90 9  | G  | 15  | 6 d. 2 d. 2 31 44 44 45 8 950 960 960 960 960 960 960 960 960 960 96   | 16   | 16  | 15   | 6 4 2 42 31 44 44 4 8 900 000 000 000 000 000 000 000 000 0   | 6         C  | 15   | 6         C  | 15  | 1 4 4 4 5 11 44 44 41 8 950 650 650 650 650 650 650 650 650 650 6  | 15   | 42 42 31 44 44 41 8 7632 677 678 679 679 679 679 679 679 679 679 679 679   | 42 42 31 44 44 41 8 9502 6070 6080 27 27 28 28 29 29 19 24 58 59 25 40 20 20 20 20 20 20 20 20 20 20 20 20 20   |
|  |  | 18         37         58         24         39         39         32         19         239         39         36         410         399         36         410         399         36         410         399         36         410         399         36         410         42         22         230         31         30         430         44          3990         3890         480         480         24         22         23         15         31         31         31         31         44          3990         3890         3890         3890         380           244         25         37         37         38         38         39         32         48         38         39         36         48         39         38         39         36         48         39         38         39         38         39         38         38         38         38         38         38         38         39         38         38         38         38         38         38         38         38         38         38         38         38         38         38         38         38         38   | 16         37         56         24         39         39         55         10         3599         399         54           20         22         29         19         54         34         26         12         2201         390         380         480           22         29         22         15         31         31         27         14          390         3800           24         29         19         12         20         20         17         16          3900         3800           34         25         26         27         15         6          3900         3800  | 16         27         56         24         39         39         55         19         3509         3609         4100           20         22         29         19         44         32         12         12         2010         3000         3000         4500           22         20         22         15         31         31         21         14          3000         3000           34         25         19         12         28         20         17         18          3000         3500           34         25         19         12         28         20         17         18          3000         3500   | 16         27         56         24         39         39         55         19         3509         3609         4100           20         22         29         19         44         32         12         12         2010         3000         3000         4500           22         20         22         15         31         31         21         14          3000         3000           34         25         19         12         28         20         17         18          3000         3500           34         25         19         12         28         20         17         18          3000         3500   | 16         27         36         24         39         39         35         19         2309         39         36         410         399         36         410         300         320         300         300         300         410         300         410  | 16         37         36         24         39         39         32         10         3500         3600         3600         410           200         32         29         19         34         34         34         12         210         3000         400         400           22         29         22         15         31         31         21         14         -         3300         3800         3600           44         22         19         17         28         20         17         16         -         3000         3600  | 16         37         36         24         39         39         32           22         29         19         34         34         24         12         2819         3600         3690         4500           22         29         23         15         31         31         31         4         4          3300         3800           22         29         23         15         31         31         21         14          3300         3800   | 16         3.7         98         24         38         39         32         10         5569         3600         400         400           30         2.9         19         18         34         26         12         2810         3600         400         400           22         2.9         2.3         15         31         31         21         14         -         3300         3800         3600           24         2.9         2.3         15         31         31         21         14         -         3300         3800         3600           24         2.9         2.7         15         2.0         17         16         -         3000         3600  | 16         37         96         24         39         39         32         10         500         500         500         400           20         22         29         19         19         44         26         12         210         500         600         600           22         29         23         15         31         31         21         14         -         300         360         360           24         29         19         12         28         21         16         -         300         360         360   | 18         37         36         24         39         39         32         19         32         36         36         4430 <td< td=""><td>37 36 24 39 39 32 10 2200 3000 4130<br/>3 22 29 19 34 34 26 12 2013 3000 4000<br/>2 29 23 15 31 31 31 21 14 3300 3000</td><td>8 37 36 24 39 39 32 10 3383 3890 4130<br/>0 32 29 19 34 34 28 12 2813 3660 4300</td><td>18 37 36 24 39 39 32 10 3260 3860 4130<br/>80 32 29 19 34 34 24 12 2813 3600 4000</td><td>18 37 36 24 39 39 34 10 3390 3890 4130</td><td>18 37 36 24 39 39 32 10 3393 39 32 10 3390 3990 4130 30 32 29 19 34 34 28 12 2813 3000 4000</td><td>8 37 36 24 39 39 32 10 339 360 4130<br/>10 32 29 19 34 34 28 12 2813 3660 4300</td><td>8 37 38 24 39 39 32 10 3393 3696 4130<br/>3 32 29 19 34 34 28 12 2813 3660 4500</td><td>37 36 24 39 39 32 10 2200 3000 4130<br/>3 22 29 19 34 34 26 12 2013 3000 4000<br/>2 29 23 15 31 31 31 21 14 3300 3000</td><td>8 37 56 24 59 59 31 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>16         37         36         24         39         39         32           22         29         19         34         34         24         12         2819         3600         3690         4500           22         29         23         15         31         31         31         4         4          3300         3800           22         29         23         15         31         31         21         14          3300         3800</td><td>18         37         36         24         39         39         32         19         323         39         32         39         32         39         32         39         32         39         32         30         32         39         19         34         24         12         2813         3600         4000         4000           22         29         23         15         31         31         21         14          3300         3800</td><td>46         37         36         24         39         39         32         16         3399         3900         4130           32         29         19         34         34         24         12         2815         3600         4000           22         29         29         15         31         31         27         14          3300         3800</td><td>16         27         36         24         39         39         52         10         3390         399         54           20         12         29         19         34         34         26         12         2930         390         390         4500           22         29         22         15         31         31         27         144          3900         3800           24         29         19         12         20         20         17         166          3900         3800           24         25         19         12         20         20         17         166          3900         3900</td><td>18         37         28         24         38         59         35         16         1008         390         50         430           20         22         29         19         34         34         28         12         201         300         400         400           22         29         23         15         31         31         21         14          3000         300         300           24         29         10         12         28         20         13         48          200         360</td><td>  37   56   24   39   59   25   10   200   200   200   20   20   20  </td><td>18         27         26         24         30         29         25         40         1960         3960         4130           20         22         29         19         34         34         22         12         2312         360         3800         3800           22         29         12         13         13         13         17         14          3860         3800         3800           42         23         19         12         28         20         10         48          2900         3600         3800</td><td>8         37         56         24         39         39         32         29         300         32         29         30         34         22         40         5090         3600         4130         420         400         400         32         29         32         31         31         31         21         46          3000         3900         4800         400&lt;</td><td>56         27         36         24         39         39         32         40         300         300         413         40         410</td><td>48         27         38         24         39         39         32         90         3000         3900         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         4000         5000</td><td>18         27         26         24         38         29         25         19         200         390         24         30         30         22         29         30         32         28         30         32         28         30         30         32         30         30         400         400           22         29         12         31         31         31         27         21         30         300</td><td>8 27 26 24 29 29 25 25 26 26 27 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27</td><td>8 37 26 24 39 39 35 19 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>16         27         56         24         39         39         55         10         3000         300         300         30         55         10         3000         300         300         300         4000         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  21         144          3000</td><td>  37   56   24   59   59   53   10   3590   5900   4135   10   3090   5900   4135   10   3090   5900   4305   10   3090   5900   4305   10   10   10   10   10   10   10  </td><td>46         27         36         24         39         39         32         10         1500         500         500         4130           20         22         29         19         44         34         29         12         220         20         20         20         20         30         60         4000         4000           22         29         22         15         31         31         31         1         14          3000         3000           24         22         19         12         22         20         17         16          2000         3000</td><td>97 36 24 39 39 22 16 2500 5600 5600 4110<br/>22 29 19 34 34 27 17 18 12 28 10 500 560 560 410<br/>29 22 15 31 31 21 14 - 330 580 580<br/>29 12 17 18 18 18 18 18 18 18 18 18 18 18 18 18</td><td>37 36 24 38 39 39 35 10 10 200 500 500 4130 22 28 19 34 34 22 112 2813 5000 4000 4000 20 22 23 15 31 31 21 14 300 300 300 3000 3000</td></td<> | 37 36 24 39 39 32 10 2200 3000 4130<br>3 22 29 19 34 34 26 12 2013 3000 4000<br>2 29 23 15 31 31 31 21 14 3300 3000   | 8 37 36 24 39 39 32 10 3383 3890 4130<br>0 32 29 19 34 34 28 12 2813 3660 4300   | 18 37 36 24 39 39 32 10 3260 3860 4130<br>80 32 29 19 34 34 24 12 2813 3600 4000   | 18 37 36 24 39 39 34 10 3390 3890 4130   | 18 37 36 24 39 39 32 10 3393 39 32 10 3390 3990 4130 30 32 29 19 34 34 28 12 2813 3000 4000  | 8 37 36 24 39 39 32 10 339 360 4130<br>10 32 29 19 34 34 28 12 2813 3660 4300  | 8 37 38 24 39 39 32 10 3393 3696 4130<br>3 32 29 19 34 34 28 12 2813 3660 4500   | 37 36 24 39 39 32 10 2200 3000 4130<br>3 22 29 19 34 34 26 12 2013 3000 4000<br>2 29 23 15 31 31 31 21 14 3300 3000  | 8 37 56 24 59 59 31 10 10 10 10 10 10 10 10 10 10 10 10 10  | 16         37         36         24         39         39         32           22         29     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3600   | 8 37 26 24 39 39 35 19 10 23 19 23 19 23 19 24 27 28 29 29 29 15 31 31 32 11 14 - 3300 3500 3500 3500 3500 3500 3500 35  | 46         27         36         24         39         39         35         40         3569         390         430           20         22         29         19         44         34         29         12         290         300         600         6000         6000         6000         4000         22         22         29         22         15         31         31         21         144          3000   | 37   56   24   59   59   53   10   3590   5900   4135   10   3090   5900   4135   10   3090   5900   4305   10   3090   5900   4305   10   10   10   10   10   10   10   | 46         27         36         24         39         39         32         10         1500         500         500         4130           20         22         29         19         44         34         29         12         220         20         20         20         20         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|  |  | 20         32         29         19         34         34         24         12         28         2893         3600         4000           22         29         23         15         31         31         21         14          3000         3000         3000           24         23         19         12         28         20         17         16          3000         3000           24         25         19         12         28         20         17         16          3000         2600  | 80         32         29         19         34         34         21         12         289         290         50         5000         4000           22         29         22         15         31         31         21         14          3000         3000           24         25         19         12         28         26         17         16          3000         3400   | 20 32 29 19 34 34 26 12 2810 5000 4000<br>22 29 23 15 31 31 21 14 3000 3800<br>24 25 19 12 28 20 17 16 3000 3800  | 20 32 29 19 34 34 26 12 2810 5000 4000<br>22 29 23 15 31 31 21 14 3000 3800<br>24 25 19 12 28 20 17 16 3000 3800  | 20 32 29 19 34 34 20 12 28 29 19 34 04 20 22 28 29 29 19 34 04 20 22 29 29 19 12 28 29 17 16 3000 3800 3800 20 20 20 20 20 17 16 3000 3800 3800  | 20 32 29 19 34 34 26 12 2813 5000 4000<br>22 29 29 15 31 31 21 14 5300 5000 4000<br>24 24 25 19 12 28 20 11 16 5000 5000   | 20 32 29 19 34 34 26 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430  | 20 32 29 19 34 34 26 12 2803 5000 4000<br>22 29 29 15 31 31 21 14 5000 5000<br>24 25 19 12 28 25 17 16 5000 5000  | 20 32 29 19 34 34 26 12 2893 2600 4000<br>22 29 23 15 31 31 21 14 3000 3000 3000<br>24 25 19 12 28 28 20 17 16 2000 2600   | 00 32 29 19 34 34 24 12 2803 3660 4000<br>12 29 23 15 31 31 21 14 3399 3430   | 3 32 29 19 34 34 26 12 2810 3660 4000<br>2 29 23 15 31 31 21 14 3360 3830   | 0 32 29 19 34 34 28 12 2810 3660 4000  | NO 32 29 19 34 34 28 12 2893 3660 4000   |  | NO 32 29 19 34 34 28 12 2810 3660 4000   | 0 32 29 19 34 34 28 12 2810 3600 4000  | 32 29 19 34 34 28 12 2810 3660 4000  | 3 32 29 19 34 34 26 12 2810 3660 4000<br>2 29 23 15 31 31 21 14 3360 3830  | 0 32 29 19 34 34 24 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3399 3839  | 20 32 29 19 34 34 26 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430  | 20 32 29 19 34 34 28 12 2813 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430   | 20         32         29         19         34         34         24         12         2813         3600         4000           22         29         23         15         31         31         21         14          3990         3830  | 20         32         29         19         34         34         21         122         2810         3600         4500           22         29         23         15         31         31         21         14         -         3000         3810           24         23         19         12         28         26         17         16         -         3000         3840  | 80         32         29         19         34         34         24         12         2813         3600         4300           22         23         15         31         31         21         14          3300         3830           24         25         19         12         28         28         11         16          3000         3600   | 32 29 19 34 34 28 12 2810 3000 4000<br>20 23 15 31 31 21 14 - 3000 3800<br>25 19 12 28 20 17 16 - 3000 3800  | 200         2.2         2.9         1.9         3.4         3.4         2.6         12         2810         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         340         2.8         2.9         1.0         1.6          2000         3500  | 00 22 29 19 34 34 34 26 12 2810 5000 6000 6000 6000 6000 6000 6000 60  | 20   22   29   19   34   34   24   12   2910   2600   4500   420   22   29   29   35   35   37   27   24   29   29   29   29   29   29   29  | 20   22   29   19   34   34   24   12   2913   200   400  | 200         2.2         29         19         34         34         26         12         2810         3500         3500         3600   | 0 2 29 59 34 34 32 29 19 34 34 32 29 12 20 20 3500 4500 4500 440 20 4 4 2 3 15 3 1 2 1 44   | 0 32 29 19 34 34 26 12 2800 5000 4000<br>2 29 23 15 31 31 21 14 3000 3810<br>4 23 19 12 28 28 17 16 3000 3860  | 20 32 29 19 34 34 26 12 2810 3600 4000<br>22 29 29 15 31 31 21 14 - 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|  |  | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 26 17 16 3000 3840   | 22 29 23 15 31 31 21 14 3310 3330<br>24 25 19 12 28 20 17 16 3000 3640   | 22 29 29 15 31 31 21 14 3010 3800<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3800<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 26 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ·  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 - 3390 3390<br>24 25 19 12 28 25 17 16 - 3000 3040  | 22 29 23 15 31 31 21 14 ·  | 12 20 23 15 31 31 21 14 · 3300 3830   | 2 29 23 15 31 31 21 14 - 3390 3830  |  |  | 90   32   29   19   34   34   26   12   2810   3660   4000   |  |  |  | 2 29 23 15 31 31 21 14 - 3390 3830   | 2 20 23 15 31 31 21 14 3390 3830  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 3390 3830   | 22 20 23 15 31 31 21 14 · 3390 3890  | 22 29 23 15 31 31 21 14 3360 3830<br>24 25 19 12 28 26 17 16 2000 2040   | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 28 17 16 3000 3840  | 29 29 15 31 31 21 14 3390 3830<br>25 19 12 28 28 17 16 3000 3640   | 22 29 29 15 31 31 21 14 - 3000 3850 24 29 15 2 28 5 17 16 - 3000 3850 24 29 15 12 28 5 17 16 - 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000  | 2 2 29 23 15 31 31 21 14 - 3000 3800 3800 4 25 19 12 28 29 17 16 - 3000 3000 3000 3000 3000 3000 3000 3  | 22 29 29 15 31 33 21 14 3590 5800 24 22 29 29 15 21 35 21 15 5 20 5 20 5 20 5 20 5 20 5 20 5   | 22 29 23 15 31 33 21 44 - 3590 3400 540 540 540 540 540 540 540 540 540   | 22 29 29 15 31 31 21 14 3060 3800 24 25 15 12 28 29 17 16 2000 3800 3800 3800 3800 3800 3800 3800  | 2 29 23 15 31 31 21 14 3360 3800 3800 2 25 19 12 28 29 17 16 3000 3800 3800 3800 3800 3800 3800 3   | 2 29 23 15 31 31 21 14 ··· 3010 3830<br>4 25 19 12 28 28 17 16 ··· 3000 3640   | 22 29 29 15 31 31 21 14 3360 3830<br>24 25 19 12 28 29 17 16 3000 3640   | 2 29 23 15 31 31 21 14 3360 3830<br>4 25 19 12 28 25 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ··· 3390 3830 24 25 19 12 28 28 17 16 ··· 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3890 25 17 25 19 12 28 28 17 16 ··· 3000 3640  | 22 29 23 15 31 31 21 14 - 3300 3830<br>24 25 19 12 28 26 17 16 - 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3830 25 19 12 28 25 17 16 ··· 3000 3640  | 29 23 15 31 31 21 14 3390 3830  |
|  | 36 24 39 39 32 10 3360 3860 4130   | 24 25 19 12 28 25 17 16 - 3000 3840  | 24 25 19 12 28 28 17 16 - 3000 3840  | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 28 17 16 - 3000 3640  | 22 29 23 15 31 31 21   | 24 25 19 12 28 28 17 16 - 3000 3040   | 24 25 19 12 28 28 17 16 - 3000 3040  | 28 29 25 15 31 31 21  |   |  |  |  |  |  |  |  | 2 29 25 15 31 31 21   | 22 29 23 15 31 31 21   | 2 2 2 15 15 11 2  | 2 2 2 15 31 31 2   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 - 3000 3640   | 29 23 19 31 31 21<br>25 19 12 28 25 17 16 - 3000 3640  | 224 25 19 12 28 26 17 16 17 16 - 3000 3640  64 village resume a simply supported gases with 1-10-bit of contri  | 22 29 23 15 31 31 21 15 22 28 25 17 16 2000 3640 17 19 12 28 25 17 16 2710 3430  | 464         AP         429         179         31         31         241           2-34         228         19         12         28         28         11         166         —         2000         3040           16e valvies insurine is surricy in supported panel with 1-124-16, of contri         16         —         2010         3400           17 (i) with cold valvice and subsidiary biological survivals with supported panel with 1-124-16, of contri         20         —         3100   | 4.64         AP         4.29         1.79         3.11         2.11         1.66          3000         3560           2.64         2.95         1.91         2.28         2.8         1.11         1.66          3000         3560           3.64         2.95         2.95         2.95         1.11         1.66           2010         3450           3.64         2.95         2.95         2.95         1.15         1.66           2010         3450           3.65         2.95 <t< td=""><td>24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of</td><td>4 29 29 19 19 31 31 21</td><td>4 25 19 12 28 25 17 16 - 3000 3640</td><td>24 25 19 12 28 26 17 16 - 3000 3640</td><td>4 25 19 12 28 26 17 16 - 3000 3640</td><td>224 23 19 12 28 28 17 17 16 - 3000 3040</td><td>29 25 19 12 28 28 17 16 3000 3040</td><td>24 25 19 12 28 25 17 16 - 3000 3040</td><td>25 25 19 12 28 28 17 16 - 2000 2640</td><td>29 25 15 31 31 21</td></t<> | 24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of   | 4 29 29 19 19 31 31 21  | 4 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 4 25 19 12 28 26 17 16 - 3000 3640   | 224 23 19 12 28 28 17 17 16 - 3000 3040   | 29 25 19 12 28 28 17 16 3000 3040  | 24 25 19 12 28 25 17 16 - 3000 3040  | 25 25 19 12 28 28 17 16 - 2000 2640  | 29 25 15 31 31 21   |
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  44         34         29         12         220         20         20         20         20         30         60         4000         4000           22         29         22         15         31         31         31         1         14          3000         3000           24         22         19         12         22         20         17         16          2000         3000  | 97 36 24 39 39 22 16 2500 5600 5600 4110<br>22 29 19 34 34 27 17 18 12 28 10 500 560 560 410<br>29 22 15 31 31 21 14 - 330 580 580<br>29 12 17 18 18 18 18 18 18 18 18 18 18 18 18 18  | 37 36 24 38 39 39 35 10 10 200 500 500 4130 22 28 19 34 34 22 112 2813 5000 4000 4000 20 22 23 15 31 31 21 144 3500 3850  |
| 16 42 42 31 44 44 41 8 3533 4070 -   |  | 20         32         29         19         34         34         24         12         28         2893         3600         4000           22         29         23         15         31         31         21         14          3000         3000         3000           24         23         19         12         28         20         17         16          3000         3000           24         25         19         12         28         20         17         16          3000         2600  | 80         32         29         19         34         34         21         12         289         290         50         5000         4000           22         29         22         15         31         31         21         14          3000         3000           24         25         19         12         28         26         17         16          3000         3400   | 20 32 29 19 34 34 26 12 2810 5000 4000<br>22 29 23 15 31 31 21 14 3000 3800<br>24 25 19 12 28 20 17 16 3000 3800  | 20 32 29 19 34 34 26 12 2810 5000 4000<br>22 29 23 15 31 31 21 14 3000 3800<br>24 25 19 12 28 20 17 16 3000 3800  | 20 32 29 19 34 34 20 12 28 29 19 34 04 20 22 28 29 29 19 34 04 20 22 29 29 19 12 28 29 17 16 3000 3800 3800 20 20 20 20 20 17 16 3000 3800 3800  | 20 32 29 19 34 34 26 12 2813 5000 4000<br>22 29 29 15 31 31 21 14 5300 5000 4000<br>24 24 25 19 12 28 20 11 16 5000 5000   | 20 32 29 19 34 34 26 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430  | 20 32 29 19 34 34 26 12 2803 5000 4000<br>22 29 29 15 31 31 21 14 5000 5000<br>24 25 19 12 28 25 17 16 5000 5000  | 20 32 29 19 34 34 26 12 2893 2600 4000<br>22 29 23 15 31 31 21 14 3000 3000 3000<br>24 25 19 12 28 28 20 17 16 2000 2600   | 00 32 29 19 34 34 24 12 2803 3660 4000<br>12 29 23 15 31 31 21 14 3399 3430   | 3 32 29 19 34 34 26 12 2810 3660 4000<br>2 29 23 15 31 31 21 14 3360 3830   | 0 32 29 19 34 34 28 12 2810 3660 4000  | NO 32 29 19 34 34 28 12 2893 3660 4000   |  | NO 32 29 19 34 34 26 12 2810 3660 4000   | 0 32 29 19 34 34 28 12 2810 3600 4000  | 32 29 19 34 34 28 12 2810 3660 4000  | 3 32 29 19 34 34 26 12 2810 3660 4000<br>2 29 23 15 31 31 21 14 3360 3830  | 0 32 29 19 34 34 24 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3399 3839  | 20 32 29 19 34 34 26 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430  | 20 32 29 19 34 34 28 12 2813 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430   | 20         32         29         19         34         34         24         12         2813         3600         4000           22         29         23         15         31         31         21         14          3990         3830  | 20         32         29         19         34         34         21         122         2810         3600         4500           22         29         23         15         31         31         21         14         - 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3300 3600 3600<br>24 25 19 12 28 26 17 16 - 3000 3600  | 0 32 29 19 34 34 26 12 2890 3600 4500<br>2 29 23 19 12 28 26 11 16 - 3000 3800<br>3 29 28 29 28 19 12 28 26 11 16 - 3000 3800  | 20 32 29 19 34 34 20 12 2813 3600 4500<br>22 29 29 15 31 31 21 14 3300 3800<br>24 29 19 12 28 25 17 16 3000 5800  | 32 29 19 34 34 26 12 2810 5000 4500<br>29 23 15 31 31 21 14 3500 5860<br>25 19 12 28 28 17 16 5000 5660  | 20 32 29 19 34 34 26 12 2810 3600 4500<br>22 29 23 15 31 31 21 14 - 3300 3800<br>24 25 19 12 28 28 17 16 - 5000 540  | 32 29 19 34 34 24 12 2810 3600 4600<br>29 23 15 31 31 21 14 3300 3800<br>29 19 12 28 28 17 166 3000 3600   | 32 29 19 34 34 24 12 2893 3660 4600<br>29 23 15 31 31 21 14 3300 3800   |
|  |  | 20         32         29         19         34         34         24         12         28         2893         3600         4000           22         29         23         15         31         31         21         14          3000         3000         3000           24         23         19         12         28         20         17         16          3000         3000           24         25         19         12         28         20         17         16          3000         2600  | 80         32         29         19         34         34         21         12         289         290         50         5000         4000           22         29         22         15         31         31         21         14          3000         3000           24         25         19         12         28         26         17         16          3000         3400   | 20 32 29 19 34 34 26 12 2810 5000 4000<br>22 29 23 15 31 31 21 14 3000 3800<br>24 25 19 12 28 20 17 16 3000 3800  | 20 32 29 19 34 34 26 12 2810 5000 4000<br>22 29 23 15 31 31 21 14 3000 3800<br>24 25 19 12 28 20 17 16 3000 3800  | 20 32 29 19 34 34 20 12 28 29 19 34 04 20 22 28 29 29 19 34 04 20 22 29 29 19 12 28 29 17 16 3000 3800 3800 20 20 20 20 20 17 16 3000 3800 3800  | 20 32 29 19 34 34 26 12 2813 5000 4000<br>22 29 29 15 31 31 21 14 5300 5000 4000<br>24 24 25 19 12 28 20 11 16 5000 5000   | 20 32 29 19 34 34 26 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430  | 20 32 29 19 34 34 26 12 2803 5000 4000<br>22 29 29 15 31 31 21 14 5000 5000<br>24 25 19 12 28 25 17 16 5000 5000  | 20 32 29 19 34 34 26 12 2893 2600 4000<br>22 29 23 15 31 31 21 14 3000 3000 3000<br>24 25 19 12 28 28 20 17 16 2000 2600   | 00 32 29 19 34 34 24 12 2803 3660 4000<br>12 29 23 15 31 31 21 14 3399 3430   | 3 32 29 19 34 34 26 12 2810 3660 4000<br>2 29 23 15 31 31 21 14 3360 3830   | 0 32 29 19 34 34 28 12 2810 3660 4000  | NO 32 29 19 34 34 28 12 2893 3660 4000   |  | NO 32 29 19 34 34 26 12 2810 3660 4000   | 0 32 29 19 34 34 28 12 2810 3600 4000  | 32 29 19 34 34 28 12 2810 3660 4000  | 3 32 29 19 34 34 26 12 2810 3660 4000<br>2 29 23 15 31 31 21 14 3360 3830  | 0 32 29 19 34 34 24 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3399 3839  | 20 32 29 19 34 34 26 12 2893 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430  | 20 32 29 19 34 34 28 12 2813 3660 4000<br>22 29 23 15 31 31 21 14 3360 3430   | 20         32         29         19         34         34         24         12         2813         3600         4000           22         29         23         15         31         31         21         14          3990         3830  | 20         32         29         19         34         34         21         122         2810         3600         4500           22         29         23         15         31         31         21         14         -         3000         3810           24         23         19         12         28         26         17         16         -         3000         3840  | 80         32         29         19         34         34         24         12         2813         3600         4300           22         23         15         31         31         21         14          3300         3830           24         25         19         12         28         28         11         16          3000         3600   | 32 29 19 34 34 28 12 2810 3000 4000<br>20 23 15 31 31 21 14 - 3000 3800<br>25 19 12 28 20 17 16 - 3000 3800  | 200         2.2         2.9         1.9         3.4         3.4         2.6         12         2810         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         3000         340         2.8         2.9         1.0         1.6          2000         3500  | 00 22 29 19 34 34 34 26 12 2810 5000 6000 6000 6000 6000 6000 6000 60  | 20   22   29   19   34   34   24   12   2910   2600   4500   420   22   29   29   35   35   37   27   24   29   29   29   29   29   29   29  | 20   22   29   19   34   34   24   12   2913   200   400  | 200         2.2         29         19         34         34         26         12         2810         3500         3500         3600   | 0 2 29 59 34 34 32 29 19 34 34 32 29 12 20 20 3500 4500 4500 440 20 4 4 2 3 15 3 1 2 1 44   | 0 32 29 19 34 34 26 12 2800 5000 4000<br>2 29 23 15 31 31 21 14 3000 3810<br>4 23 19 12 28 28 17 16 3000 3860  | 20 32 29 19 34 34 26 12 2810 3600 4000<br>22 29 29 15 31 31 21 14 - 3300 3600 3600<br>24 25 19 12 28 26 17 16 - 3000 3600  | 0 32 29 19 34 34 26 12 2890 3600 4500<br>2 29 23 19 12 28 26 11 16 - 3000 3800<br>3 29 28 29 28 19 12 28 26 11 16 - 3000 3800  | 20 32 29 19 34 34 20 12 2813 3600 4500<br>22 29 29 15 31 31 21 14 3300 3800<br>24 29 19 12 28 25 17 16 3000 5800  | 32 29 19 34 34 26 12 2810 5000 4500<br>29 23 15 31 31 21 14 3500 5860<br>25 19 12 28 28 17 16 5000 5660  | 20 32 29 19 34 34 26 12 2810 3600 4500<br>22 29 23 15 31 31 21 14 - 3300 3800<br>24 25 19 12 28 28 17 16 - 5000 540  | 32 29 19 34 34 24 12 2810 3600 4600<br>29 23 15 31 31 21 14 3300 3800<br>29 19 12 28 28 17 166 3000 3600   | 32 29 19 34 34 24 12 2893 3660 4600<br>29 23 15 31 31 21 14 3300 3800   |
| 18 27 26 24 29 29 23 10 390 390  |  | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 26 17 16 3000 3840   | 22 29 23 15 31 31 21 14 3390 3330<br>24 25 19 12 28 20 17 16 3000 3640   | 22 29 29 15 31 31 21 14 3010 3800<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 26 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ·  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 - 3390 3390<br>24 25 19 12 28 25 17 16 - 3000 3040  | 22 29 23 15 31 31 21 14 ·  | 12 20 23 15 31 31 21 14 · 3300 3830   | 2 29 23 15 31 31 21 14 - 3390 3830  |  |  | NO 32 29 19 34 34 24 12 2813 3660 4000   |  |  |  | 2 29 23 15 31 31 21 14 - 3390 3830   | 2 20 23 15 31 31 21 14 3390 3830  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 3390 3830   | 22 20 23 15 31 31 21 14 · 3390 3890  | 22 29 23 15 31 31 21 14 3360 3830<br>24 25 19 12 28 26 17 16 2000 2040   | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 28 17 16 3000 3840  | 29 29 15 31 31 21 14 3390 3830<br>25 19 12 28 28 17 16 3000 3640   | 22 29 29 15 31 31 21 14 - 3000 3850 24 29 15 2 28 5 17 16 - 3000 3850 24 29 15 12 28 5 17 16 - 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000  | 2 2 29 23 15 31 31 21 14 - 3000 3800 3800 4 25 19 12 28 29 17 16 - 3000 3000 3000 3000 3000 3000 3000 3  | 22 29 29 15 31 33 21 14 3590 5800 24 22 29 29 15 21 35 21 15 5 20 5 20 5 20 5 20 5 20 5 20 5   | 22 29 23 15 31 33 21 44 - 3590 3400 540 540 540 540 540 540 540 540 540   | 22 29 29 15 31 31 21 14 3060 3800 24 25 15 12 28 29 17 16 2000 3800 3800 3800 3800 3800 3800 3800  | 2 29 23 15 31 31 21 14 3360 3800 3800 2 25 19 12 28 29 17 16 3000 3800 3800 3800 3800 3800 3800 3   | 2 29 23 15 31 31 21 14 ··· 3010 3830<br>4 25 19 12 28 28 17 16 ··· 3000 3640   | 22 29 29 15 31 31 21 14 3300 3330<br>24 25 19 12 28 29 17 16 3000 3540   | 2 29 23 15 31 31 21 14 3360 3830<br>4 25 19 12 28 25 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ··· 3390 3830 24 25 19 12 28 28 17 16 ··· 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3890 25 17 25 19 12 28 28 17 16 ··· 3000 3640  | 22 29 23 15 31 31 21 14 - 3300 3830<br>24 25 19 12 28 26 17 16 - 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3830 25 19 12 28 25 17 16 ··· 3000 3640  | 29 23 15 31 31 21 14 3390 3830  |
| 18 37 36 24 39 39 37 10 3380 3880 ·  |  | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 26 17 16 3000 3840   | 22 29 23 15 31 31 21 14 3390 3330<br>24 25 19 12 28 20 17 16 3000 3640   | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 26 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ·  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 - 3390 3390<br>24 25 19 12 28 25 17 16 - 3000 3040  | 22 29 23 15 31 31 21 14 ·  | 12 20 23 15 31 31 21 14 · 3300 3830   | 2 29 23 15 31 31 21 14 - 3390 3830  |  |  | 20 32 29 19 34 34 26 12 2810 3660 4000   |  |  |  | 2 29 23 15 31 31 21 14 - 3390 3830   | 2 20 23 15 31 31 21 14 3390 3830  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 3390 3830   | 22 20 23 15 31 31 21 14 · 3390 3890  | 22 29 23 15 31 31 21 14 3360 3830<br>24 25 19 12 28 26 17 16 2000 2040   | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 28 17 16 3000 3840  | 29 29 15 31 31 21 14 3390 3830<br>25 19 12 28 28 17 16 3000 3640   | 22 29 29 15 31 31 21 14 - 3000 3850 24 29 15 2 28 5 17 16 - 3000 3850 24 29 15 12 28 5 17 16 - 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000  | 2 2 29 23 15 31 31 21 14 - 3000 3800 3800 4 25 19 12 28 29 17 16 - 3000 3000 3000 3000 3000 3000 3000 3  | 22 29 29 15 31 33 21 14 3590 5800 24 22 29 29 15 21 35 21 15 5 20 5 20 5 20 5 20 5 20 5 20 5   | 22 29 23 15 31 33 21 44 - 3590 3400 540 540 540 540 540 540 540 540 540   | 22 29 29 15 31 31 21 14 3060 3800 24 25 15 12 28 29 17 16 2000 3800 3800 3800 3800 3800 3800 3800  | 2 29 23 15 31 31 21 14 3360 3800 3800 2 25 19 12 28 29 17 16 3000 3800 3800 3800 3800 3800 3800 3   | 2 29 23 15 31 31 21 14 ··· 3010 3830<br>4 25 19 12 28 28 17 16 ··· 3000 3640   | 22 29 29 15 31 31 21 14 3300 3330<br>24 25 19 12 28 29 17 16 3000 3540   | 2 29 23 15 31 31 21 14 3360 3830<br>4 25 19 12 28 25 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ··· 3390 3830 24 25 19 12 28 28 17 16 ··· 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3890 25 17 25 19 12 28 28 17 16 ··· 3000 3640  | 22 29 23 15 31 31 21 14 - 3300 3830<br>24 25 19 12 28 26 17 16 - 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3830 25 19 12 28 25 17 16 ··· 3000 3640  | 29 23 15 31 31 21 14 3390 3830  |
|  |  | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 26 17 16 3000 3840   | 22 29 23 15 31 31 21 14 3390 3330<br>24 25 19 12 28 20 17 16 3000 3640   | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 26 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ·  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 - 3390 3390<br>24 25 19 12 28 25 17 16 - 3000 3040  | 22 29 23 15 31 31 21 14 ·  | 12 20 23 15 31 31 21 14 · 3300 3830   | 2 29 23 15 31 31 21 14 - 3390 3830  |  |  | 70 32 29 19 34 34 26 12 2810 3660 4000   |  |  |  | 2 29 23 15 31 31 21 14 - 3390 3830   | 2 20 23 15 31 31 21 14 3390 3830  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 3390 3830   | 22 20 23 15 31 31 21 14 · 3390 3890  | 22 29 23 15 31 31 21 14 3360 3830<br>24 25 19 12 28 26 17 16 2000 2040   | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 28 17 16 3000 3840  | 29 29 15 31 31 21 14 3390 3830<br>25 19 12 28 28 17 16 3000 3640   | 22 29 29 15 31 31 21 14 - 3000 3850 24 29 15 2 28 5 17 16 - 3000 3850 24 29 15 12 28 5 17 16 - 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000  | 2 2 29 23 15 31 31 21 14 - 3000 3800 3800 4 25 19 12 28 29 17 16 - 3000 3000 3000 3000 3000 3000 3000 3  | 22 29 29 15 31 33 21 14 3590 5800 24 22 29 29 15 21 35 21 15 5 20 5 20 5 20 5 20 5 20 5 20 5   | 22 29 23 15 31 33 21 44 - 3590 3400 540 540 540 540 540 540 540 540 540   | 22 29 29 15 31 31 21 14 3060 3800 24 25 15 12 28 29 17 16 2000 3800 3800 3800 3800 3800 3800 3800  | 2 29 23 15 31 31 21 14 3360 3800 3800 2 25 19 12 28 29 17 16 3000 3800 3800 3800 3800 3800 3800 3   | 2 29 23 15 31 31 21 14 ··· 3010 3830<br>4 25 19 12 28 28 17 16 ··· 3000 3640   | 22 29 29 15 31 31 21 14 3300 3330<br>24 25 19 12 28 29 17 16 3000 3540   | 2 29 23 15 31 31 21 14 3360 3830<br>4 25 19 12 28 25 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ··· 3390 3830<br>24 25 19 12 28 28 17 16 ··· 3000 3840  | 29 23 15 31 31 21 14 ··· 3390 3890 25 17 25 19 12 28 28 17 16 ··· 3000 3640  | 22 29 23 15 31 31 21 14 - 3300 3830<br>24 25 19 12 28 26 17 16 - 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3830 25 19 12 28 25 17 16 ··· 3000 3640  | 29 23 15 31 31 21 14 3390 3830  |
|  |  | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 26 17 16 3000 3840   | 22 29 23 15 31 31 21 14 3390 3330<br>24 25 19 12 28 20 17 16 3000 3640   | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 26 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ·  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 - 3390 3390<br>24 25 19 12 28 25 17 16 - 3000 3040  | 22 29 23 15 31 31 21 14 ·  | 12 20 23 15 31 31 21 14 · 3300 3830   | 2 29 23 15 31 31 21 14 - 3390 3830  |  |  | 90 32 29 19 34 34 28 12 2810 3660 4000   |  |  |  | 2 29 23 15 31 31 21 14 - 3390 3830   | 2 20 23 15 31 31 21 14 3390 3830  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 3390 3830   | 22 20 23 15 31 31 21 14 · 3390 3890  | 22 29 23 15 31 31 21 14 3360 3830<br>24 25 19 12 28 26 17 16 2000 2040   | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 28 17 16 3000 3840  | 29 29 15 31 31 21 14 3390 3830<br>25 19 12 28 28 17 16 3000 3640   | 22 29 29 15 31 31 21 14 - 3000 3850 24 29 15 2 28 5 17 16 - 3000 3850 24 29 15 12 28 5 17 16 - 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000  | 2 2 29 23 15 31 31 21 14 - 3000 3800 3800 4 25 19 12 28 29 17 16 - 3000 3000 3000 3000 3000 3000 3000 3  | 22 29 29 15 31 33 21 14 3590 5800 24 22 29 29 15 21 35 21 15 5 20 5 20 5 20 5 20 5 20 5 20 5   | 22 29 23 15 31 33 21 44 - 3590 3400 540 540 540 540 540 540 540 540 540   | 22 29 29 15 31 31 21 14 3060 3800 24 25 15 12 28 29 17 16 2000 3800 3800 3800 3800 3800 3800 3800  | 2 29 23 15 31 31 21 14 3360 3800 3800 2 25 19 12 28 29 17 16 3000 3800 3800 3800 3800 3800 3800 3   | 2 29 23 15 31 31 21 14 ··· 3010 3830<br>4 25 19 12 28 28 17 16 ··· 3000 3640   | 22 29 29 15 31 31 21 14 3300 3330<br>24 25 19 12 28 29 17 16 3000 3540   | 2 29 23 15 31 31 21 14 3360 3830<br>4 25 19 12 28 25 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ··· 3390 3830<br>24 25 19 12 28 28 17 16 ··· 3000 3840  | 29 23 15 31 31 21 14 ··· 3390 3890 25 17 25 19 12 28 28 17 16 ··· 3000 3640  | 22 29 23 15 31 31 21 14 - 3300 3830<br>24 25 19 12 28 26 17 16 - 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3830 25 19 12 28 25 17 16 ··· 3000 3640  | 29 23 15 31 31 21 14 3390 3830  |
|  |  | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 26 17 16 3000 3840   | 22 29 23 15 31 31 21 14 3390 3330<br>24 25 19 12 28 20 17 16 3000 3640   | 22 29 29 15 31 31 21 14 3010 3800<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3800<br>24 25 19 12 28 29 17 16 3000 3640  | 22 29 29 15 31 31 21 14 3010 3830<br>24 25 19 12 28 26 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ·  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 - 3390 3390<br>24 25 19 12 28 25 17 16 - 3000 3040  | 22 29 23 15 31 31 21 14 ·  | 12 20 23 15 31 31 21 14 · 3300 3830   | 2 29 23 15 31 31 21 14 - 3390 3830  |  |  |  |  |  |  | 2 29 23 15 31 31 21 14 - 3390 3830   | 2 20 23 15 31 31 21 14 3390 3830  | 22 29 23 15 31 31 21 14 3300 3830  | 22 29 23 15 31 31 21 14 3390 3830   | 22 20 23 15 31 31 21 14 · 3390 3890  | 22 29 23 15 31 31 21 14 3360 3830<br>24 25 19 12 28 26 17 16 2000 2040   | 22 29 23 15 31 31 21 14 3390 3830<br>24 25 19 12 28 28 17 16 3000 3840  | 29 29 15 31 31 21 14 3390 3830<br>25 19 12 28 28 17 16 3000 3640   | 22 29 29 15 31 31 21 14 - 3000 3850 24 29 15 2 28 5 17 16 - 3000 3850 24 29 15 12 28 5 17 16 - 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000  | 2 2 29 23 15 31 31 21 14 - 3000 3800 3800 4 25 19 12 28 29 17 16 - 3000 3000 3000 3000 3000 3000 3000 3  | 22 29 29 15 31 33 21 14 3590 5800 24 22 29 29 15 21 35 21 15 5 20 5 20 5 20 5 20 5 20 5 20 5   | 22 29 23 15 31 33 21 44 - 3590 3400 540 540 540 540 540 540 540 540 540   | 22 29 29 15 31 31 21 14 3060 3800 24 25 15 12 28 29 17 16 2000 3800 3800 3800 3800 3800 3800 3800  | 2 29 23 15 31 31 21 14 3360 3800 3800 2 25 19 12 28 29 17 16 3000 3800 3800 3800 3800 3800 3800 3   | 2 29 23 15 31 31 21 14 ··· 3010 3830<br>4 25 19 12 28 28 17 16 ··· 3000 3640   | 22 29 29 15 31 31 21 14 3360 3830<br>24 25 19 12 28 29 17 16 3000 3640   | 2 29 23 15 31 31 21 14 3360 3830<br>4 25 19 12 28 25 17 16 3000 3640   | 22 29 23 15 31 31 21 14 ··· 3390 3830<br>24 25 19 12 28 28 17 16 ··· 3000 3840  | 29 23 15 31 31 21 14 ··· 3390 3890 25 17 25 19 12 28 28 17 16 ··· 3000 3640  | 22 29 23 15 31 31 21 14 - 3300 3830<br>24 25 19 12 28 26 17 16 - 3000 3840   | 29 23 15 31 31 21 14 ··· 3390 3830 25 19 12 28 25 17 16 ··· 3000 3640  | 29 23 15 31 31 21 14 3390 3830  |
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|  | 36 24 39 39 32 10 3360 3860 4130   | 24 25 19 12 28 25 17 16 - 3000 3840  | 24 25 19 12 28 28 17 16 - 3000 3840  | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 28 17 16 - 3000 3640  | 22 29 23 15 31 31 21   | 24 25 19 12 28 28 17 16 - 3000 3040   | 24 25 19 12 28 28 17 16 - 3000 3040  | 28 29 25 15 31 31 21  |   |  |  |  |  |  | 29 23 15 31 31 21 14 - 3390 3830   |  | 2 29 25 15 31 31 21   | 22 29 23 15 31 31 21   | 2 2 2 15 15 11 2  | 2 2 2 15 31 31 2   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 - 3000 3640   | 29 23 19 31 31 21<br>25 19 12 28 25 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 17 20 26 26 17 16 - 3000 3640 16 willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for will support for w      | 22 29 23 15 31 31 21 15 22 28 25 17 16 2000 3640 17 19 12 28 25 17 16 2710 3430  | 464         AP         429         179         31         31         241           2-34         228         19         12         28         28         11         166         —         2000         3040           16e valvies insurine is surricy in supported panel with 1-124-16, of contri         16         —         2010         3400           17 (i) with cold valvice and subsidiary biological survivals with supported panel with 1-124-16, of contri         20         —         3100   | 4.64         AP         4.29         1.79         3.11         2.11         1.66          3000         3560           2.64         2.95         1.91         2.28         2.8         1.11         1.66          3000         3560           3.64         2.95         2.95         2.95         1.11         1.66           2010         3450           3.64         2.95         2.95         2.95         1.15         1.66           2010         3450           3.65         2.95 <t< td=""><td>24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of</td><td>4 29 29 19 19 31 31 21</td><td>4 25 19 12 28 25 17 16 - 3000 3640</td><td>24 25 19 12 28 26 17 16 - 3000 3640</td><td>4 25 19 12 28 26 17 16 - 3000 3640</td><td>224 23 19 12 28 28 17 17 16 - 3000 3040</td><td>29 25 19 12 28 28 17 16 3000 3040</td><td>24 25 19 12 28 25 17 16 - 3000 3040</td><td>25 25 19 12 28 28 17 16 - 2000 2640</td><td>29 25 15 31 31 21</td></t<> | 24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of   | 4 29 29 19 19 31 31 21  | 4 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 4 25 19 12 28 26 17 16 - 3000 3640   | 224 23 19 12 28 28 17 17 16 - 3000 3040   | 29 25 19 12 28 28 17 16 3000 3040  | 24 25 19 12 28 25 17 16 - 3000 3040  | 25 25 19 12 28 28 17 16 - 2000 2640  | 29 25 15 31 31 21   |
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| 4 200  | 36 24 39 39 32 10 3360 3860 4130   | 24 25 19 12 28 25 17 16 - 3000 3840  | 24 25 19 12 28 28 17 16 - 3000 3840  | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 28 17 16 - 3000 3640  | 22 29 23 15 31 31 21   | 24 25 19 12 28 28 17 16 - 3000 3040   | 24 25 19 12 28 28 17 16 - 3000 3040  | 28 29 25 15 31 31 21  |   |  |  |  |  |  |  |  | 2 29 25 15 31 31 21   | 22 29 23 15 31 31 21   | 2 2 2 15 15 11 2  | 2 2 2 15 31 31 2   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 - 3000 3640   | 29 23 19 31 31 21<br>25 19 12 28 25 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 17 20 26 26 17 16 - 3000 3640 16 willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for will support for w      | 22 29 23 15 31 31 21 15 22 28 25 17 16 2000 3640 17 19 12 28 25 17 16 2710 3430  | 464         AP         429         179         31         31         241           2-34         228         19         12         28         28         11         166         —         2000         3040           16e valvies insurine is surricy in supported panel with 1-124-16, of contri         16         —         2010         3400           17 (i) with cold valvice and subsidiary biological survivals with supported panel with 1-124-16, of contri         20         —         3100   | 4.64         AP         4.29         1.79         3.11         2.11         1.66          3000         3560           2.64         2.95         1.91         2.28         2.8         1.11         1.66          3000         3560           3.64         2.95         2.95         2.95         1.11         1.66           2010         3450           3.64         2.95         2.95         2.95         1.15         1.66           2010         3450           3.65         2.95 <t< td=""><td>24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of</td><td>4 29 29 19 19 31 31 21</td><td>4 25 19 12 28 25 17 16 - 3000 3640</td><td>24 25 19 12 28 26 17 16 - 3000 3640</td><td>4 25 19 12 28 26 17 16 - 3000 3640</td><td>224 23 19 12 28 28 17 17 16 - 3000 3040</td><td>29 25 19 12 28 28 17 16 3000 3040</td><td>24 25 19 12 28 25 17 16 - 3000 3040</td><td>25 25 19 12 28 28 17 16 - 2000 2640</td><td>29 25 15 31 31 21</td></t<> | 24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of   | 4 29 29 19 19 31 31 21  | 4 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 4 25 19 12 28 26 17 16 - 3000 3640   | 224 23 19 12 28 28 17 17 16 - 3000 3040   | 29 25 19 12 28 28 17 16 3000 3040  | 24 25 19 12 28 25 17 16 - 3000 3040  | 25 25 19 12 28 28 17 16 - 2000 2640  | 29 25 15 31 31 21   |
|  | 36 24 39 39 32 10 3360 3860 4130   | 24 25 19 12 28 25 17 16 - 3000 3840  | 24 25 19 12 28 28 17 16 - 3000 3840  | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 28 17 16 - 3000 3640  | 22 29 23 15 31 31 21   | 24 25 19 12 28 28 17 16 - 3000 3040   | 24 25 19 12 28 28 17 16 - 3000 3040  | 28 29 25 15 31 31 21  |   |  |  |  |  |  |  |  | 2 29 25 15 31 31 21   | 22 29 23 15 31 31 21   | 2 2 2 15 15 11 2  | 2 2 2 15 31 31 2   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 - 3000 3640   | 29 23 19 31 31 21<br>25 19 12 28 25 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 17 20 26 26 17 16 - 3000 3640 16 willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for will support for w      | 22 29 23 15 31 31 21 15 22 28 25 17 16 2000 3640 17 19 12 28 25 17 16 2710 3430  | 464         AP         429         179         31         31         241           2-34         228         19         12         28         28         11         166         —         2000         3040           16e valvies insurine is surricy in supported panel with 1-124-16, of contri         16         —         2010         3400           17 (i) with cold valvice and subsidiary biological survivals with supported panel with 1-124-16, of contri         20         —         3100   | 4.64         AP         4.29         1.79         3.11         2.11         1.66          3000         3560           2.64         2.95         1.91         2.28         2.8         1.11         1.66          3000         3560           3.64         2.95         2.95         2.95         1.11         1.66           2010         3450           3.64         2.95         2.95         2.95         1.15         1.66           2010         3450           3.65         2.95 <t< td=""><td>24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of</td><td>4 29 29 19 19 31 31 21</td><td>4 25 19 12 28 25 17 16 - 3000 3640</td><td>24 25 19 12 28 26 17 16 - 3000 3640</td><td>4 25 19 12 28 26 17 16 - 3000 3640</td><td>224 23 19 12 28 28 17 17 16 - 3000 3040</td><td>29 25 19 12 28 28 17 16 3000 3040</td><td>24 25 19 12 28 25 17 16 - 3000 3040</td><td>25 25 19 12 28 28 17 16 - 2000 2640</td><td>29 25 15 31 31 21</td></t<> | 24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of   | 4 29 29 19 19 31 31 21  | 4 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 4 25 19 12 28 26 17 16 - 3000 3640   | 224 23 19 12 28 28 17 17 16 - 3000 3040   | 29 25 19 12 28 28 17 16 3000 3040  | 24 25 19 12 28 25 17 16 - 3000 3040  | 25 25 19 12 28 28 17 16 - 2000 2640  | 29 25 15 31 31 21   |
|  | 36 24 39 39 32 10 3360 3860 4130   | 24 25 19 12 28 25 17 16 - 3000 3840  | 24 25 19 12 28 28 17 16 - 3000 3840  | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 22 29 23 15 31 31 21<br>24 25 19 12 28 26 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 28 17 16 - 3000 3640  | 22 29 23 15 31 31 21   | 24 25 19 12 28 28 17 16 - 3000 3040   | 24 25 19 12 28 28 17 16 - 3000 3040  | 28 29 25 15 31 31 21  |   |  |  |  |  |  |  |  | 2 29 25 15 31 31 21   | 22 29 23 15 31 31 21   | 2 2 2 15 15 11 2  | 2 2 2 15 31 31 2   | 24 25 19 12 28 26 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 - 3000 3640   | 29 23 19 31 31 21<br>25 19 12 28 25 17 16 - 3000 3640  | 24 25 19 12 28 26 17 16 17 20 26 26 17 16 - 3000 3640 16 willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for willower earning supported gases with 1-10-bit of control for will support for w      | 22 29 23 15 31 31 21 15 22 28 25 17 16 2000 3640 17 19 12 28 25 17 16 2710 3430  | 464         AP         429         179         31         31         241           2-34         228         19         12         28         28         11         166         —         2000         3040           16e valvies insurine is surricy in supported panel with 1-124-16, of contri         16         —         2010         3400           17 (i) with cold valvice and subsidiary biological survivals with supported panel with 1-124-16, of contri         20         —         3100   | 4.64         AP         4.29         1.79         3.11         2.11         1.66          3000         3560           2.64         2.95         1.91         2.28         2.8         1.11         1.66          3000         3560           3.64         2.95         2.95         2.95         1.11         1.66           2010         3450           3.64         2.95         2.95         2.95         1.15         1.66           2010         3450           3.65         2.95 <t< td=""><td>24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of</td><td>4 29 29 19 19 31 31 21</td><td>4 25 19 12 28 25 17 16 - 3000 3640</td><td>24 25 19 12 28 26 17 16 - 3000 3640</td><td>4 25 19 12 28 26 17 16 - 3000 3640</td><td>224 23 19 12 28 28 17 17 16 - 3000 3040</td><td>29 25 19 12 28 28 17 16 3000 3040</td><td>24 25 19 12 28 25 17 16 - 3000 3040</td><td>25 25 19 12 28 28 17 16 - 2000 2640</td><td>29 25 15 31 31 21</td></t<> | 24 25 19 12 28 26 17 16 17 2000 2040  64 vilues assume a simply successful control with 11-files of control  65 will be successful control of the control of   | 4 29 29 19 19 31 31 21  | 4 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 26 17 16 - 3000 3640  | 4 25 19 12 28 26 17 16 - 3000 3640   | 224 23 19 12 28 28 17 17 16 - 3000 3040   | 29 25 19 12 28 28 17 16 3000 3040  | 24 25 19 12 28 25 17 16 - 3000 3040  | 25 25 19 12 28 28 17 16 - 2000 2640  | 29 25 15 31 31 21   |
| 99 30 30 46 31 31 31 34 14 3390  | 36 24 39 39 32 10 3360 3860 4130   | 24 25 19 12 28 25 17 16 - 3000 3540  | 24 25 19 12 28 25 17 16 - 3000 3040  | 24 25 19 12 28 29 17 16 - 3000 3540   | 24 25 19 12 28 29 17 16 - 3000 3540   | 24 25 19 12 28 25 17 16 3000 3640  | 24 25 19 12 28 25 17 16 3000 3540  |  | 24 25 19 12 28 28 17 16 - 3000 3540   | 24 25 19 12 28 28 17 16 - 3000 3540  |   |   |  | 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25   |  |  |  |  |  |   |  |   |  | 24 25 19 12 28 26 17 16 3000 3640  | 24 25 19 12 28 29 17 16 - 3000 3040   | 25 19 12 28 25 17 16 - 3000 3040   | 24 25 19 12 28 28 17 16 3000 3640<br>fer values insure a sirrely supported gamel with 1-10-bit, of goods 16 2710 3430   | M 25 19 12 28 26 17 16 3000 3840<br>I values assume a sirrory supported panel with 1-10-in of contri   | 24 25 19 12 28 29 19 15 19 12 39 26 17 16  | 24 25 19 12 28 20 17 16 - 2000 3540 18 12 28 20 17 16 - 2000 3540 18 values assume a sirrely supported garant with 1-1/2-th of control 16 - 270 3430 18 17 10 with sold workness through supported garant with 1-1/2-th of the control 10 with sold workness with 10 with sold workness values of the 10 with sold workness values with sold workness values with 10 with 10 with sold workness values with 10 wit  | 24 25 19 12 28 26 17 16 3000 3640<br>fer values insures a sirrely supported gazet with 1-12-in, of points 16 2750 3430   | 4 25 19 12 28 28 17 16 3000 3640 values assume a simply supported panel with 1-12-in, of contr. 18 2710 3430  | 4 25 19 12 28 28 17 16 - 3000 3040   | 24 25 19 12 28 26 17 16 - 3000 3640  | 4 25 19 12 28 29 17 16 2090 2640   | 24 25 19 12 28 28 17 16 - 3000 3640   | 25 19 12 28 25 17 16 3000 3540   | 24 25 19 12 28 26 17 16 - 3000 3640  | 25 19 12 28 28 17 16 3000 3540   |   |
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|  | 36 24 39 39 32 10 3393 3890 4130<br>29 19 34 34 28 12 2813 3660 4000   | 24 25 19 12 28 26 17   | 24 25 19 12 28 26 17   | 24 25 19 12 28 26 17  | 24 25 19 12 28 26 17  | 24 25 19 12 26 26 17   |  | M 25 10 17 28 26 17 16 - 3000 3640   |   |  | M 26 50 52 28 28 51 16 - 2000 2640  |   |  |  |  |  |  |  |  |   |  |   | 24 25 10 12 28 28 12 16 - 3000 3640  | 24 25 19 12 28 26 17   | 24 25 19 12 28 28 17  | 25 19 12 28 28 17  | 24 25 19 12 28 26 17  | 4 25 19 12 28 28 17  | 24 29 19 12 28 28 17 1   | 24 29 19 12 28 26 17 the values assume a simply supported panel with 1-1.0-ix, of conta 1-1.0) with solid sucod plates at bearing locations. Values do not inci. 20 3190  | 24 25 19 12 25 25 17   | 4 25 19 12 28 29 17   | 4 25 19 12 28 26 17  | 24 25 19 12 28 26 17   | 4 25 19 12 28 26 17  |   |  |  |  | 25 10 12 28 26 12 16 3000 WAN   |
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|  | 36 24 39 39 32 10 3393 3890 4130<br>29 19 34 34 28 12 2813 3660 4000   | 24 25 19 12 28 26 17   | 24 25 19 12 28 26 17   | 24 25 19 12 28 26 17  | 24 25 19 12 28 26 17  | 24 25 19 12 26 26 17   |  |  |   |  |   |   |  |  |  |  |  |  |  |   |  |   |  | 24 25 19 12 28 26 17   | 24 25 19 12 28 28 17  | 25 19 12 28 28 17  | 24 25 19 12 28 26 17  | 4 25 19 12 28 28 17  | 24 29 19 12 28 28 17 1   | 24 29 19 12 28 26 17 the values assume a simply supported panel with 1-1.0-ix, of conta 1-1.0) with solid sucod plates at bearing locations. Values do not inci. 20 3190  | 24 25 19 12 25 25 17   | 4 25 19 12 28 29 17   | 4 25 19 12 28 26 17  | 24 25 19 12 28 26 17   | 4 25 19 12 28 26 17  |   |  |  |  |   |
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| 24 25 19 12 28 26 17   | 38 24 39 39 32 19 100 1000 5990 4100<br>29 19 34 34 28 12 2813 5000 4500<br>22 15 31 31 21 14 5000 3800  |  |  |   |   |  |  |  |   |  |   |   |  | 29 29 25 15 31 31 21   | 22 29 23 15 31 31 21   |  |  |  |  |   |  |   |  |  |   |  |   |  | net vacuum ansumme as simmpy supported passes with 1-10-46, or control  1.0) with solid wood plates ait bearing locations. Values do not indi  | net vacues assume a simply suppress panel with 1-10-11, or come 1-10, with sold wood plates at bearing locations. Values do not incl 20 3190  |  |   |  |  |  |   |  |  |  | 25 19 12 28 20 17   |
|  | 38 24 39 39 32 19 100 1000 5990 4100<br>29 19 34 34 28 12 2813 5000 4500<br>22 15 31 31 21 14 5000 3800  |  |  |   |   |  |  |  |   |  |   |   | 4 26 50 52 28 28 51 16 - 2000 2640   | 29 29 25 15 31 31 21   | 22 29 23 15 31 31 21   |  | 4 24 15 17 28 28 17 16 - 2000 2640   |  |  |   |  |   |  |  |   |  |   | Values instante a simply supported partie with 1-10-in, or come  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | to values assume a sumpy supported paties with 1-10-10, of control  10) with sold wood classes at bearing locations. Values do not incl  20  |   |  |  |  |   |  |  |  |   |
|  | 36   |  |  |   |   | or values assume a simply supported panel with 1,1(2) in of profit   |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  |  | after values assume a simply supported named with 1,570 or 4 more. 18   |  |   |  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  | values assume a sirrely surroyated namel with 1,10 in of contr. 18 - 2790 3430   |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
| The state of the s   | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  | 3430 18 - 2790 3430   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  | 2790 3430   |
| 27 - 1 (Could need close of brodes bending bending to be a continue to the con   | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  | to volume assume a simply supported name with 1.10 as of mosts 16 2790 3430   | the values assume a sirrely supported panel with 1.1/2 in of rooms 18 2790 3430  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  | Wass assume a surrey supported panel with 1,1(2) in of contr. 18 2790 3430  |
| (C. = 1.0) with solid wood plates at bearing locations. Values do not incl. 20   | 50   24   39   39   35   19   1500   1500   1600   4130   22   12   23   15   15   17   24   15   17   24   17   24   17   25   17   2 |  |  |   |   |  |  |  |   |  |   | values assume a simply supported panel with 1-1Q-in, of contri.  18 2790 3430   | 4 25 19 12 28 26 17  | 22 29 23 15 31 31 21 16 - 2000 3640 Wh 1.25 19 12 28 26 17 16 - 2000 3640 Whitesee assume a simply appropriate gases with 1.15-th, of contri   | 224 25 19 12 28 28 17 11 16 2000 2040 19 19 19 19 19 19 19 19 19 19 19 19 19   | M 25 19 12 28 26 17 16 - 3000 3640<br>e values assume a sirroly supported gamel with 1-10-in of contri   | 4 25 19 12 28 29 17  | 25 19 12 28 28 17  | 25 19 12 28 28 17  | a values assume a simply supported panel with 1-1Q-in. of contr. 18 2790 3430   | is values assume a simply supported game with 1-10-in. of confe 16 2790 3430   |   |  |  |   |  |   |  |  |   |  | (i) with and d wood plates at heaving locations Values do not inch  |  |  |  |   |  |  |  |   |
| (C. = 1 (I) with solid wood plates at heaviors locations. Values do not inch.  | 50   24   39   39   35   19   1500   1500   1600   4130   22   12   23   15   15   17   24   15   17   24   17   24   17   25   17   2 |  |  |   |   |  |  |  |   |  |   | values assume a simply supported panel with 1-1Q-in, of contri.  18 2790 3430   | 4 25 19 12 28 26 17  | 22 29 23 19 31 31 21 16 - 2000 3640 Wh 1.25 19 12 28 26 17 16 - 2000 3640 Whitesee assume a simply appropriate gases with 1.15-th, of contri   | 224 25 19 12 28 28 17 17 16 2000 2040 18 19 19 19 19 19 19 19 19 19 19 19 19 19  | M 25 19 12 28 26 17 16 - 3000 3640<br>e values assume a sirroly supported gamel with 1-10-in of contri   | 4 25 19 12 28 29 17  | 25 19 12 28 28 17  | 25 19 12 28 28 17  | a values assume a simply supported panel with 1-1Q-in. of contr. 18 2790 3430   | is values assume a simply supported game with 1-10-in. of confe 16 2790 3430   |   |  |  |   |  |   |  |  |   |  | (i) with and d wood plates at heaving locations Values do not inch  |  |  |  |   |  |  |  |   |
| CO. at 10 and and and other at harden banden Value de parties  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  | to volume assume a simply supported name with 1.10 as of mosts 16 2790 3430   | the values assume a sirrely supported panel with 1.1/2 in of rooms 18 2790 3430  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  | Wass assume a surrey supported panel with 1,1(2) in of contr. 18 2790 3430  |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  | 16 2790 3430  |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
| Table values assume a simply supported panel with 1.1/2 in of pools 18 - 2790  | 36   |  |  | de values assume a sirrely supported panel with 1,1(2) in of pools 18 - 2790 3430   | de values assume a sirrely supported panel with 1,1(2) in of pools 18 - 2790 3430   | or values assume a simply supported panel with 1,1(2) in of profit   |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  |  | after values assume a simply supported named with 1,570 or 4 more. 18   |  |   |  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0 with solid wood plates at bearing locations. Values do not incl. 96  |   |  | de values assume a simply supported panel with 1.10-in of ports 16 - 2790 3430   | values assume a sirrely surroyated namel with 1,10 in of contr. 18 - 2790 3430   |   |  |  |  |   |
| Table values assume a simply supported panel with 1.1/2 in of pools 18 - 2790  | 36   |  |  |   |   | or values assume a simply supported panel with 1,1(2) in of profit   |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  | 18   | after values assume a simply supported named with 1,570 or 4 more. 18   |  |   | North and made of house of house trades to the set and to the set  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0 with solid wood plates at bearing locations. Values do not incl. 96  |   |  | de values assume a simply supported panel with 1.10-in of ports 16 - 2790 3430   | values assume a sirrely surroyated namel with 1,10 in of contr. 18 - 2790 3430   | A STATE OF THE PROPERTY OF THE  | The State of the S   |  |  |   |
| Table values assume a sirety supported panel with 1.10 in of north 18 2790   | 36   |  |  |   |   | or values assume a simply supported panel with 1,1(2) in of profit   |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  | 18   | after values assume a simply supported named with 1,570 or 4 more. 18   |  |   | North and made of house of house trades to the set and to the set  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0 with solid wood plates at bearing locations. Values do not incl. 96  |   |  | de values assume a simply supported panel with 1.10-in of ports 16 - 2790 3430   | values assume a sirrely surroyated namel with 1,10 in of contr. 18 - 2790 3430   |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  | while values assume a simply supported panel with 1,770 in of cours   |  |   |  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  | values assume a simply supported name with 1.10 in of profit   |   |  |  |  |   |
| Table values assume a sirety supported panel with 1.10 in of north 18 2790   | 36   |  |  |   |   | or values assume a simply supported panel with 1,1(2) in of profit   |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  | 18   | after values assume a simply supported named with 1,570 or 4 more. 18   |  |   | North and made of house of house trades to the set and to the set  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 1.0 with solid wood plates at bearing locations. Values do not incl. 96  |   |  | de values assume a simply supported panel with 1.10-in of ports 16 - 2790 3430   | values assume a sirrely surroyated namel with 1,10 in of contr. 18 - 2790 3430   |   |  |  |  |   |
| Table when secure a closely a provided asset with 1 10 in ad courts 18 2790  | 36   |  |  |   |   |  |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  | 18 2760 1450   | able unless secures a plant, a property of security and the security of the se    |  |   | The state of the s | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 10) with sold wood relates at bearing locations. Values do not inci  |   |  |  |  | white are the second at the second with \$100 to of contr.  | When the second a simply a constant man with 1 170 is of contr.  |  |  |   |
|  | 38 24 39 39 32 19 100 1000 5990 4100<br>29 19 34 34 28 12 2813 5000 4500<br>22 15 31 31 21 14 5000 3800  |  |  |   |   |  |  |  |   |  |   |   | 24 19 12 28 28 12 16 - 3090 3640   | 29 29 25 15 31 31 21   | 22 29 23 15 31 31 21   |  | 4 24 19 12 28 28 12 16 3090 3640   |  |  |   |  |   |  | 18 2700  |   |  |   |  | net vacuum ansumme as simmpy supported passes with 1-10-46, or control  1.0) with solid wood plates ait bearing locations. Values do not indi  | net vacues assume a simply suppress panel with 1-10-11, or come 1-10, with sold wood plates at bearing locations. Values do not incl 20 3190  |  |   |  |  |  |   |  |  |  |   |
|  | 38 24 39 39 32 19 100 1000 5990 4100<br>29 19 34 34 28 12 2813 5000 4500<br>22 15 31 31 21 14 5000 3800  |  |  |   |   |  |  |  |   |  |   |   | 24 19 12 28 28 12 16 - 3090 3640   | 29 29 25 15 31 31 21   | 22 29 23 15 31 31 21   |  | 4 24 19 12 28 28 12 16 3090 3640   |  |  |   |  |   |  |  |   |  |   |  | net vacuum ansumme as simmpy supported passes with 1-10-46, or control  1.0) with solid wood plates ait bearing locations. Values do not indi  | net vacues assume a simply suppress panel with 1-10-th, or come 1-10, with sold wood plates at bearing locations. Values do not incl 20 3190  |  |   |  |  |  |   |  |  |  |   |
|  | 38 24 39 39 32 19 100 1000 5990 4100<br>29 19 34 34 28 12 2813 5000 4500<br>22 15 31 31 21 14 5000 3800  |  |  |   |   |  |  |  |   |  |   |   | 24 19 12 28 28 12 16 - 3090 3640   | 29 29 25 15 31 31 21   | 22 29 23 15 31 31 21   |  | 4 24 19 12 28 28 12 16 3090 3640   |  |  |   |  |   |  | 18 2700  |   |  |   |  | net vacuum ansumme as simmpy supported passes with 1-10-46, or control  1.0) with solid wood plates ait bearing locations. Values do not indi  | net vacues assume a simply suppress panel with 1-10-th, or come 1-10, with sold wood plates at bearing locations. Values do not incl 20 3190  |  |   |  |  |  |   |  |  |  |   |
| 16 2790  | 36   |  |  |   |   |  |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  | 18 2700  | 49  |  |   | Values instance a simply supported partie with 1-10-in. or come  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | to values assume a sumpy supported paties with 1-10-10, of control  10) with sold wood classes at bearing locations. Values do not incl  20  |   |  |  |  | 400   | 10 170   |  |  |   |
| Table values secure a circular a constant control and 1 1/0 in of control  | 36   |  |  |   |   |  |  |  |   |  |   |   |  | 22 29 23 19 31 31 2  | 24 25 19 12 28 28 17 16 - 3000 3040  | M 25 19 12 28 26 17 16 - 3000 3840   |  |  |  |   |  |   |  | 18 2760 1450   | able unless secures a plant, a property of security and the security of the se    |  |   | The state of the s | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190  | 1.0) with solid wood plates at bearing locations. Values do not incli 20 3190   | 10) with sold wood relates at bearing locations. Values do not inci  |   |  |  | 2790 3430  | white are the second at the second with \$100 to of contr.  | When the second a simply a constant man with 1 170 is of contr.  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   | 1.0) with solid wood plates at bearing locations. Values do not incl. 90   |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  | 16 2790 3430  |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |
|  | 56   24   39   39   32   10   3000   3000   4100   22   20   15   3000   3000   4100   4000   4200 |  |  |   |   |  |  |  |   |  |   |   | 4 25 19 12 28 26 17  | N 25 19 12 28 25 17 16 - 3000 3640   | 24 25 19 12 28 25 17 16 - 3000 3640  | M 25 19 12 28 29 17 16 - 3000 3040   | 9 25 19 12 28 28 17  | 25 19 12 28 20 17  | 25 19 12 28 20 17  |   |  |   |  |  |   |  |   |  |  |   |  |   |  |  |  |   |  |  |  |   |

### **SIP DESIGN**

### Residential energy code compliance PA - 2015 IECC Chapter 4 (RE)

- Avoid prescriptive requirements for exterior insulation
- Total UA Alternative method using ResCheck

- OR -

Performance method (HERS rating in 2015 IECC)

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## **SIP DESIGN**

"RIGHT SIZING" of HVAC Equipment - Oversizing equipment jeopardizes building and equipment durability while needlessly increasing costs

Airtightness: A pre-construction estimate of less than 2 ACH is appropriate, and it is common to achieve less than 1 ACH50.

High-performance structures designed and built extremely airtight must have mechanical make-up air via HRV, ERV, or other means



















