

# Output table

# JUPITER System Standard

65mm Cement Screed

Heat output based upon DIN EN 1264

| Mean water temp. | Room temp. | R=0,00 m²K/W                   |               |                              |               |                               |               | R=0,05 m²K/W                   |               |                              |               |                               |               |
|------------------|------------|--------------------------------|---------------|------------------------------|---------------|-------------------------------|---------------|--------------------------------|---------------|------------------------------|---------------|-------------------------------|---------------|
|                  |            | EZ<br>12,5 cm<br>Cement Screed |               | CZ<br>25 cm<br>Cement Screed |               | MIX<br>20 cm<br>Cement Screed |               | EZ<br>12,5 cm<br>Cement Screed |               | CZ<br>25 cm<br>Cement Screed |               | MIX<br>20 cm<br>Cement Screed |               |
|                  |            | 45 mm                          | Surface temp. | 45 mm                        | Surface temp. | 45 mm                         | Surface temp. | 45 mm                          | Surface temp. | 45 mm                        | Surface temp. | 45 mm                         | Surface temp. |
| $\theta_m$       | $\theta_i$ | $\theta_F$                     | $\theta_F$    | $\theta_F$                   | $\theta_F$    | $\theta_F$                    | $\theta_F$    | $\theta_F$                     | $\theta_F$    | $\theta_F$                   | $\theta_F$    | $\theta_F$                    |               |
| °C               | °C         | W/m2                           | °C            | W/m2                         | °C            | W/m2                          | °C            | W/m2                           | °C            | W/m2                         | °C            | W/m2                          | °C            |
| 30               | 15         | 96.6                           | 23.7          | 74.6                         | 21.9          | 80.5                          | 22.4          | 69.8                           | 21.5          | 56.8                         | 20.4          | 61.2                          | 20.8          |
| 30               | 18         | 76.9                           | 25.1          | 59.4                         | 23.6          | 64.1                          | 24.0          | 55.6                           | 23.3          | 45.2                         | 22.4          | 48.7                          | 22.7          |
| 30               | 20         | 63.6                           | 26.0          | 49.1                         | 24.7          | 53.1                          | 25.1          | 46.0                           | 24.4          | 37.4                         | 23.7          | 40.3                          | 23.9          |
| 30               | 22         | 50.3                           | 26.8          | 38.8                         | 25.8          | 41.9                          | 26.1          | 34.9                           | 25.5          | 29.5                         | 25.0          | 31.9                          | 25.2          |
| 30               | 24         | 36.6                           | 27.6          | 28.3                         | 26.9          | 30.5                          | 27.1          | 26.5                           | 26.7          | 21.5                         | 26.2          | 23.2                          | 26.4          |
| 35               | 15         | 129.3                          | 26.4          | 99.9                         | 24.0          | 107.8                         | 24.6          | 93.5                           | 23.5          | 76.0                         | 22.0          | 82.0                          | 22.5          |
| 35               | 18         | 109.7                          | 27.8          | 84.7                         | 25.7          | 91.5                          | 26.3          | 79.3                           | 25.3          | 64.5                         | 24.0          | 69.5                          | 24.5          |
| 35               | 20         | 96.6                           | 28.7          | 74.6                         | 26.9          | 80.5                          | 27.4          | 69.8                           | 26.5          | 56.8                         | 25.4          | 61.2                          | 25.8          |
| 35               | 22         | 83.4                           | 29.6          | 64.4                         | 28.0          | 69.6                          | 28.5          | 60.3                           | 27.7          | 49.0                         | 26.7          | 52.9                          | 27.0          |
| 35               | 24         | 70.3                           | 30.5          | 54.3                         | 29.2          | 58.6                          | 29.5          | 50.8                           | 28.9          | 41.3                         | 28.0          | 44.5                          | 28.3          |
| 40               | 15         | 162.0                          | 28.9          | 125.1                        | 26.0          | 135.0                         | 26.8          | 117.1                          | 25.4          | 95.2                         | 23.6          | 102.7                         | 24.2          |
| 40               | 18         | 142.4                          | 30.4          | 110.0                        | 27.8          | 118.7                         | 28.5          | 103.0                          | 27.2          | 83.7                         | 25.7          | 90.2                          | 26.2          |
| 40               | 20         | 129.3                          | 31.4          | 99.9                         | 29.0          | 107.8                         | 29.6          | 93.5                           | 28.5          | 76.0                         | 27.0          | 82.0                          | 27.5          |
| 40               | 22         | 116.2                          | 32.3          | 89.8                         | 30.2          | 96.9                          | 30.7          | 84.1                           | 29.7          | 68.3                         | 28.4          | 73.7                          | 28.8          |
| 40               | 24         | 103.1                          | 33.3          | 79.7                         | 31.3          | 86.0                          | 31.8          | 74.6                           | 30.9          | 60.6                         | 29.7          | 65.4                          | 30.1          |
| 45               | 15         | 194.5                          | 31.5          | 150.3                        | 28.0          | 162.2                         | 29.0          | 140.7                          | 27.3          | 114.3                        | 25.2          | 123.3                         | 25.9          |
| 45               | 18         | 175.0                          | 33.0          | 135.2                        | 29.8          | 145.9                         | 30.7          | 126.5                          | 29.1          | 102.8                        | 27.2          | 110.9                         | 27.9          |
| 45               | 20         | 162.0                          | 33.9          | 125.1                        | 31.0          | 135.0                         | 31.8          | 117.1                          | 30.4          | 95.2                         | 28.6          | 102.7                         | 29.2          |
| 45               | 22         | 148.9                          | 34.9          | 115.0                        | 32.2          | 124.2                         | 33.0          | 107.7                          | 31.6          | 87.5                         | 30.0          | 94.4                          | 30.5          |
| 45               | 24         | 135.9                          | 35.9          | 104.9                        | 33.4          | 113.3                         | 34.1          | 98.2                           | 32.9          | 79.8                         | 31.3          | 86.1                          | 31.9          |
| 50               | 15         | 227.1                          | 34.0          | 175.4                        | 30.0          | 189.4                         | 31.1          | 164.2                          | 29.1          | 133.5                        | 26.7          | 144.0                         | 27.5          |
| 50               | 18         | 207.6                          | 35.5          | 160.3                        | 31.8          | 173.1                         | 32.8          | 150.1                          | 31.0          | 122.0                        | 28.8          | 131.6                         | 29.5          |
| 50               | 20         | 194.5                          | 36.5          | 150.3                        | 33.0          | 162.2                         | 34.0          | 140.7                          | 32.3          | 114.3                        | 30.2          | 123.3                         | 30.9          |
| 50               | 22         | 181.5                          | 37.5          | 140.2                        | 34.2          | 151.4                         | 35.1          | 131.2                          | 33.5          | 106.7                        | 31.5          | 115.1                         | 32.2          |
| 50               | 24         | 168.5                          | 38.5          | 130.1                        | 35.4          | 140.5                         | 36.3          | 121.8                          | 34.8          | 99.0                         | 32.9          | 106.8                         | 33.6          |
| 55               | 15         | 259.7                          | 36.4          | 200.5                        | 31.9          | 216.5                         | 33.2          | 187.8                          | 31.0          | 152.6                        | 28.2          | 164.6                         | 29.2          |
| 55               | 18         | 240.1                          | 38.0          | 185.5                        | 33.8          | 200.2                         | 34.9          | 173.6                          | 32.9          | 141.1                        | 30.3          | 152.2                         | 31.2          |
| 55               | 20         | 227.1                          | 39.0          | 175.4                        | 35.0          | 189.4                         | 36.1          | 164.2                          | 34.1          | 133.5                        | 31.7          | 144.0                         | 32.5          |
| 55               | 22         | 214.1                          | 40.0          | 165.3                        | 36.2          | 178.5                         | 37.2          | 154.8                          | 35.4          | 125.8                        | 33.1          | 135.7                         | 33.9          |
| 55               | 24         | 201.1                          | 41.0          | 155.3                        | 37.4          | 167.7                         | 38.4          | 145.4                          | 36.6          | 118.2                        | 34.5          | 127.4                         | 35.2          |

Maximum surface temperature according to DIN EN 1264:

JUPITER Heating Systems Ltd  
Pennypot Lane  
Chobham  
Surrey, GU24 8DJ

Edge Zone 1, 00 m: 35 °C  
Central zone: 29 °C  
Bathrooms: 33 °C

## Output table

## JUPITER System Standard

65mm Cement Screed

Heat output based upon DIN EN 1264

| Mean water temp. | Room temp. | EZ<br>12,5 cm<br>Cement Screed<br>R=0,10 m²K/W |               | CZ<br>25 cm<br>Cement Screed<br>R=0,10 m²K/W |               | MIX<br>20 cm<br>Cement Screed<br>R=0,10 m²K/W |               | EZ<br>12,5 cm<br>Cement Screed<br>R=0,15 m²K/W |               | CZ<br>25 cm<br>Cement Screed<br>R=0,15 m²K/W |               | MIX<br>20 cm<br>Cement Screed<br>R=0,15 m²K/W |               |
|------------------|------------|--|---------------|--|---------------|---|---------------|--|---------------|--|---------------|---|---------------|
|                  |            | 45 mm  | Surface temp. | 45 mm  | Surface temp. | 45 mm   | Surface temp. | 45 mm  | Surface temp. | 45 mm  | Surface temp. | 45 mm   | Surface temp. |
| $\theta_m$       | $\theta_i$ |  | $\theta_F$    |  | $\theta_F$    |   | $\theta_F$    |  | $\theta_F$    |  | $\theta_F$    |   | $\theta_F$    |
| °C               | °C         | W/m2   | °C            | W/m2   | °C            | W/m2  | °C            | W/m2   | °C            | W/m2   | °C            | W/m2  | °C            |
| 30               | 15         | 58.8   | 20.6          | 45.8   | 19.4          | 49.0  | 19.7          | 45.2   | 19.4          | 38.5   | 18.8          | 40.9  | 19.0          |
| 30               | 18         | 46.8   | 22.5          | 36.4   | 21.6          | 39.0  | 21.8          | 35.9   | 21.5          | 30.6   | 21.1          | 32.5  | 21.2          |
| 30               | 20         | 38.8   | 23.8          | 30.1   | 23.0          | 32.3  | 23.2          | 29.8   | 23.0          | 25.4   | 22.6          | 26.9  | 22.7          |
| 30               | 22         | 30.6   | 25.1          | 23.8   | 24.4          | 25.5  | 24.6          | 23.5   | 24.4          | 20.0   | 24.1          | 21.3  | 24.2          |
| 30               | 24         | 22.3   | 26.3          | 17.4   | 25.8          | 18.6  | 25.9          | 17.1   | 25.8          | 14.6   | 25.6          | 15.5  | 25.7          |
| 35               | 15         | 78.8   | 22.2          | 61.3   | 20.8          | 65.7  | 21.1          | 60.5   | 20.7          | 51.5   | 19.9          | 54.7  | 20.2          |
| 35               | 18         | 66.8   | 24.2          | 52.0   | 23.0          | 55.7  | 23.3          | 51.3   | 22.9          | 43.7   | 22.2          | 46.4  | 22.5          |
| 35               | 20         | 58.8   | 25.6          | 45.8   | 24.4          | 49.0  | 24.7          | 45.2   | 24.4          | 38.5   | 23.8          | 40.9  | 24.0          |
| 35               | 22         | 50.8   | 26.9          | 39.5   | 25.9          | 42.4  | 26.1          | 39.0   | 25.8          | 33.3   | 25.3          | 35.3  | 25.5          |
| 35               | 24         | 42.8   | 28.2          | 33.3   | 27.3          | 35.7  | 27.5          | 32.9   | 27.3          | 28.0   | 26.8          | 29.7  | 27.0          |
| 40               | 15         | 98.7   | 23.9          | 76.7   | 22.1          | 82.2  | 22.5          | 75.7   | 22.0          | 64.5   | 21.0          | 68.5  | 21.4          |
| 40               | 18         | 86.7   | 25.9          | 67.5   | 24.3          | 72.3  | 24.7          | 66.6   | 24.2          | 56.7   | 23.4          | 60.2  | 23.7          |
| 40               | 20         | 78.8   | 27.2          | 61.3   | 25.8          | 65.7  | 26.1          | 60.5   | 25.7          | 51.5   | 24.9          | 54.7  | 25.2          |
| 40               | 22         | 70.8   | 28.6          | 55.1   | 27.2          | 59.0  | 27.6          | 54.4   | 27.2          | 46.3   | 26.5          | 49.2  | 26.7          |
| 40               | 24         | 62.8   | 29.9          | 48.9   | 28.7          | 52.4  | 29.0          | 48.2   | 28.6          | 41.1   | 28.0          | 43.6  | 28.2          |
| 45               | 15         | 118.5  | 25.5          | 92.2   | 23.4          | 98.8  | 23.9          | 91.0   | 23.3          | 77.5   | 22.1          | 82.3  | 22.5          |
| 45               | 18         | 106.6  | 27.5          | 82.9   | 25.6          | 88.8  | 26.1          | 81.8   | 25.5          | 69.7   | 24.5          | 74.0  | 24.8          |
| 45               | 20         | 98.7   | 28.9          | 76.7   | 27.1          | 82.2  | 27.5          | 75.7   | 27.0          | 64.5   | 26.0          | 68.5  | 26.4          |
| 45               | 22         | 90.7   | 30.2          | 70.6   | 28.6          | 75.6  | 29.0          | 69.6   | 28.5          | 59.3   | 27.6          | 63.0  | 27.9          |
| 45               | 24         | 82.8   | 31.6          | 64.4   | 30.0          | 69.0  | 30.4          | 63.5   | 30.0          | 54.1   | 29.2          | 57.5  | 29.4          |
| 50               | 15         | 138.4  | 27.1          | 107.6  | 24.6          | 115.3   | 25.2          | 106.2  | 24.5          | 90.5   | 23.2          | 96.1  | 23.7          |
| 50               | 18         | 126.5  | 29.1          | 98.4   | 26.9          | 105.4   | 27.4          | 97.1   | 26.8          | 82.7   | 25.6          | 87.8  | 26.0          |
| 50               | 20         | 118.5  | 30.5          | 92.2   | 28.4          | 98.8  | 28.9          | 91.0   | 28.3          | 77.5   | 27.1          | 82.3  | 27.5          |
| 50               | 22         | 110.6  | 31.9          | 86.0   | 29.8          | 92.2  | 30.4          | 84.9   | 29.8          | 72.3   | 28.7          | 76.8  | 29.1          |
| 50               | 24         | 102.6  | 33.2          | 79.8   | 31.3          | 85.5  | 31.8          | 78.8   | 31.2          | 67.1   | 30.3          | 71.3  | 30.6          |
| 55               | 15         | 158.2  | 28.7          | 123.0  | 25.9          | 131.8   | 26.6          | 121.4  | 25.7          | 103.5  | 24.3          | 109.9   | 24.8          |
| 55               | 18         | 146.3  | 30.7          | 113.8  | 28.1          | 121.9   | 28.8          | 112.3  | 28.0          | 95.7   | 26.6          | 101.6   | 27.1          |
| 55               | 20         | 138.4  | 32.1          | 107.6  | 29.6          | 115.3   | 30.2          | 106.2  | 29.5          | 90.5   | 28.2          | 96.1  | 28.7          |
| 55               | 22         | 130.4  | 33.5          | 101.4  | 31.1          | 108.7   | 31.7          | 100.1  | 31.0          | 85.3   | 29.8          | 90.6  | 30.2          |
| 55               | 24         | 122.5  | 34.8          | 95.3   | 32.6          | 102.1   | 33.2          | 94.0   | 32.5          | 80.1   | 31.4          | 85.1  | 31.8          |

Maximum surface temperature according to DIN EN 1264:

JUPITER Heating Systems Ltd  
Pennypot Lane  
Chobham  
Surrey, GU24 8DJ

Edge Zone 1, 00 m: 35 °C  
Central zone: 29 °C  
Bathrooms: 33 °C