

Series Specifications 20C.E6 (20C)

**Table 20C.E6.6C
 (Series 20C)
 Support Spacing (ft)**

(Limited by Bending Stress, Deflection of 0.50 in. over 3 spans, and Max. Spacing of 30.0 ft)

(See notes for information on what value of bending stress to use)

| Size in. | Rating psi | 500 psi | 1000 psi | 1500 psi | 500 psi | 1000 psi | 1500 psi | 500 psi | 1000 psi | 1500 psi |
|-------------|---------------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|
| | | SG = 0.85 | SG = 0.85 | SG = 0.85 | SG = 1.0 | SG = 1.0 | SG = 1.0 | SG = 1.15 | SG = 1.15 | SG = 1.15 |
| 0.50 | 150 | 17.6 | 17.6 | 17.6 | 13.4 | 13.4 | 13.4 | 11.9 | 11.9 | 11.9 |
| 0.75 | 150 | 17.6 | 17.6 | 17.6 | 13.4 | 13.4 | 13.4 | 11.9 | 11.9 | 11.9 |
| 1.00 | 150 | 17.1 | 17.9 | 17.9 | 13.6 | 13.6 | 13.6 | 12.1 | 12.1 | 12.1 |
| 1.50 | 150 | 16.2 | 18.7 | 18.7 | 14.2 | 14.2 | 14.2 | 12.6 | 12.6 | 12.6 |
| 2.00 | 150 | 15.7 | 19.5 | 19.5 | 14.5 | 14.8 | 14.8 | 13.1 | 13.1 | 13.1 |
| 2.50 | 150 | 15.4 | 20.2 | 20.2 | 14.2 | 15.3 | 15.3 | 13.3 | 13.6 | 13.6 |
| 3.00 | 150 | 15.2 | 20.9 | 20.9 | 14.1 | 15.8 | 15.8 | 13.1 | 14.1 | 14.1 |
| 4.00 | 150 | 15.0 | 21.3 | 22.1 | 13.9 | 16.7 | 16.7 | 12.9 | 14.9 | 14.9 |
| 5.00 | 150 | 14.9 | 21.1 | 22.1 | 13.7 | 16.7 | 16.7 | 12.8 | 14.9 | 14.9 |
| 6.00 | 150 | 14.8 | 21.0 | 24.0 | 13.7 | 18.2 | 18.2 | 12.7 | 16.2 | 16.2 |
| 8.00 | 150 | 16.7 | 23.6 | 27.4 | 15.4 | 20.7 | 20.7 | 14.3 | 18.4 | 18.4 |
| 10.00 | 150 | 16.6 | 23.5 | 28.7 | 15.3 | 21.6 | 21.8 | 14.3 | 19.4 | 19.4 |
| 12.00 | 150 | 18.3 | 25.8 | 30.0 | 16.8 | 23.8 | 23.9 | 15.7 | 21.3 | 21.3 |
| 14.00 | 150 | 19.8 | 28.0 | 30.0 | 18.2 | 25.8 | 26.0 | 17.0 | 23.1 | 23.1 |
| 16.00 | 150 | 21.2 | 30.0 | 30.0 | 19.6 | 27.7 | 27.8 | 18.2 | 24.7 | 24.7 |
| 18.00 | 150 | 22.6 | 30.0 | 30.0 | 20.8 | 29.4 | 29.5 | 19.4 | 26.3 | 26.3 |
| 20.00 | 150 | 23.8 | 30.0 | 30.0 | 22.0 | 30.0 | 30.0 | 20.5 | 27.7 | 27.7 |
| 24.00 | 150 | 26.2 | 30.0 | 30.0 | 24.1 | 30.0 | 30.0 | 22.5 | 30.0 | 30.0 |
| 30.00 | 100 | 23.7 | 30.0 | 30.0 | 21.8 | 30.0 | 30.0 | 20.4 | 28.8 | 30.0 |
| 36.00 | 100 | 26.0 | 30.0 | 30.0 | 24.0 | 30.0 | 30.0 | 22.4 | 30.0 | 30.0 |
| 42.00 | 50 | 19.6 | 27.7 | 30.0 | 18.0 | 25.5 | 30.0 | 16.8 | 23.8 | 29.1 |
| 48.00 | 50 | 21.0 | 29.7 | 30.0 | 19.3 | 27.3 | 30.0 | 18.0 | 25.5 | 30.0 |
| 54.00 | 50 | 22.3 | 30.0 | 30.0 | 20.6 | 29.1 | 30.0 | 19.2 | 27.1 | 30.0 |
| 60.00 | 50 | 23.5 | 30.0 | 30.0 | 21.7 | 30.0 | 30.0 | 20.2 | 28.6 | 30.0 |
| 66.00 | 50 | 24.7 | 30.0 | 30.0 | 22.8 | 30.0 | 30.0 | 21.3 | 30.0 | 30.0 |
| 72.00 | 50 | 25.9 | 30.0 | 30.0 | 23.8 | 30.0 | 30.0 | 22.2 | 30.0 | 30.0 |

Notes:

Normally, we recommend 1000psi (6.9MPa) for an allowable bending stress due to support spacing, however, this value can range from 500psi (3.5MPa) to 1500psi (13.4MPa), depending upon the other axial & bending stresses in the system. At design temperatures of 200F (93c) or more, 500psi (3.5MPa) may be needed. At very low pressures and temperatures, 1500psi (13.4MPa) may be satisfactory.
 For seawater, multiply the support spacings for SG=1.0 by 0.986 (i.e., the support spacings for seawater are approximately 98.6% of the values for SG=1.0 (water)).

Series Specifications 20C.E6 (20C)

**Table 20C.E6M.6C (Metric)
 (Series 20C)
 Support Spacing (m)**

(Limited by Bending Stress, Deflection of 12.5 mm over 3 spans, and Max. Spacing of 9.0 m)

(See notes for information on what value of bending stress to use)

| Size mm | Rating bar | 3.4 MPa | 6.8 MPa | 10.3 MPa | 3.4 MPa | 6.8 MPa | 10.3 MPa | 3.4 MPa | 6.8 MPa | 10.3 MPa |
|------------|---------------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|
| | | SG = 0.85 | SG = 0.85 | SG = 0.85 | SG = 1.0 | SG = 1.0 | SG = 1.0 | SG = 1.15 | SG = 1.15 | SG = 1.15 |
| 13 | 10 | 5.4 | 5.4 | 5.4 | 4.1 | 4.1 | 4.1 | 3.6 | 3.6 | 3.6 |
| 19 | 10 | 5.4 | 5.4 | 5.4 | 4.1 | 4.1 | 4.1 | 3.6 | 3.6 | 3.6 |
| 25 | 10 | 5.2 | 5.5 | 5.5 | 4.1 | 4.1 | 4.1 | 3.7 | 3.7 | 3.7 |
| 38 | 10 | 4.9 | 5.7 | 5.7 | 4.3 | 4.3 | 4.3 | 3.8 | 3.8 | 3.8 |
| 51 | 10 | 4.7 | 5.9 | 5.9 | 4.4 | 4.5 | 4.5 | 4.0 | 4.0 | 4.0 |
| 64 | 10 | 4.7 | 6.2 | 6.2 | 4.3 | 4.7 | 4.7 | 4.0 | 4.2 | 4.2 |
| 76 | 10 | 4.6 | 6.4 | 6.4 | 4.3 | 4.8 | 4.8 | 4.0 | 4.3 | 4.3 |
| 102 | 10 | 4.5 | 6.4 | 6.7 | 4.2 | 5.1 | 5.1 | 3.9 | 4.5 | 4.5 |
| 127 | 10 | 4.5 | 6.4 | 6.7 | 4.2 | 5.1 | 5.1 | 3.9 | 4.5 | 4.5 |
| 152 | 10 | 4.5 | 6.3 | 7.3 | 4.1 | 5.6 | 5.6 | 3.9 | 4.9 | 4.9 |
| 203 | 10 | 5.0 | 7.1 | 8.3 | 4.7 | 6.3 | 6.3 | 4.3 | 5.6 | 5.6 |
| 254 | 10 | 5.0 | 7.1 | 8.7 | 4.6 | 6.5 | 6.6 | 4.3 | 5.9 | 5.9 |
| 305 | 10 | 5.5 | 7.8 | 9.0 | 5.1 | 7.2 | 7.3 | 4.8 | 6.5 | 6.5 |
| 356 | 10 | 6.0 | 8.5 | 9.0 | 5.5 | 7.8 | 7.9 | 5.2 | 7.0 | 7.0 |
| 406 | 10 | 6.4 | 9.0 | 9.0 | 5.9 | 8.4 | 8.5 | 5.5 | 7.5 | 7.5 |
| 457 | 10 | 6.8 | 9.0 | 9.0 | 6.3 | 8.9 | 9.0 | 5.9 | 8.0 | 8.0 |
| 508 | 10 | 7.2 | 9.0 | 9.0 | 6.6 | 9.0 | 9.0 | 6.2 | 8.4 | 8.4 |
| 610 | 10 | 7.9 | 9.0 | 9.0 | 7.3 | 9.0 | 9.0 | 6.8 | 9.0 | 9.0 |
| 762 | 7 | 7.2 | 9.0 | 9.0 | 6.6 | 9.0 | 9.0 | 6.2 | 8.7 | 9.0 |
| 914 | 7 | 7.9 | 9.0 | 9.0 | 7.3 | 9.0 | 9.0 | 6.8 | 9.0 | 9.0 |
| 1067 | 3 | 5.9 | 8.4 | 9.0 | 5.5 | 7.7 | 9.0 | 5.1 | 7.2 | 8.9 |
| 1219 | 3 | 6.3 | 9.0 | 9.0 | 5.9 | 8.3 | 9.0 | 5.5 | 7.7 | 9.0 |
| 1372 | 3 | 6.7 | 9.0 | 9.0 | 6.2 | 8.8 | 9.0 | 5.8 | 8.2 | 9.0 |
| 1524 | 3 | 7.1 | 9.0 | 9.0 | 6.6 | 9.0 | 9.0 | 6.1 | 8.7 | 9.0 |
| 1676 | 3 | 7.5 | 9.0 | 9.0 | 6.9 | 9.0 | 9.0 | 6.4 | 9.0 | 9.0 |
| 1829 | 3 | 7.8 | 9.0 | 9.0 | 7.2 | 9.0 | 9.0 | 6.7 | 9.0 | 9.0 |

Notes:

Normally, we recommend 1000psi (6.9MPa) for an allowable bending stress due to support spacing, however, this value can range from 500psi (3.5MPa) to 1500psi (13.4MPa), depending upon the other axial & bending stresses in the system. At design temperatures of 200F (93c) or more, 500psi (3.5MPa) may be needed. At very low pressures and temperatures, 1500psi (13.4MPa) may be satisfactory.
 For seawater, multiply the support spacings for SG=1.0 by 0.986 (i.e., the support spacings for seawater are approximately 98.6% of the values for SG=1.0 (water)).