

Rev C - Jul-11-2017

Series Specifications 20FR16.E6 (20FR16)

(also includes Series 20FR16-C)

**Table 20FR16.E6.6C
 (Series 20FR16)
 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	232	7.0	8.6	8.6	7.0	8.6	8.6	6.9	8.6	8.6
0.75	232	7.9	9.7	9.7	7.7	9.6	9.6	7.6	9.5	9.5
1.00	232	8.5	10.5	10.5	8.3	10.4	10.4	8.2	10.3	10.3
1.50	232	9.5	11.9	11.9	9.2	11.8	11.8	9.0	11.6	11.6
2.00	232	10.2	13.1	13.1	9.8	12.8	12.8	9.5	12.6	12.6
2.50	232	10.7	14.0	14.0	10.3	13.7	13.7	9.9	13.5	13.5
3.00	232	11.1	14.8	14.8	10.6	14.5	14.5	10.2	14.2	14.2
4.00	232	11.7	16.2	16.2	11.1	15.7	15.8	10.6	15.0	15.5
5.00	232	12.1	16.2	16.2	11.5	15.8	15.8	10.9	15.4	15.5
6.00	232	12.4	17.6	18.3	11.7	16.6	17.8	11.1	15.7	17.3
8.00	232	14.3	20.3	21.1	13.5	19.1	20.5	12.8	18.1	20.0
10.00	232	16.0	22.7	23.6	15.1	21.3	22.9	14.3	20.2	22.3
12.00	232	17.5	24.8	25.9	16.5	23.3	25.1	15.6	22.1	24.4
14.00	232	19.1	27.1	28.2	18.0	25.4	27.3	17.0	24.1	26.6
16.00	232	20.6	29.1	30.0	19.3	27.3	29.3	18.3	25.9	28.5
18.00	232	21.8	30.0	30.0	20.5	28.9	30.0	19.4	27.4	30.0
20.00	232	22.9	30.0	30.0	21.5	30.0	30.0	20.4	28.8	30.0
24.00	232	25.2	30.0	30.0	23.7	30.0	30.0	22.4	30.0	30.0
26.00	232	21.8	30.0	30.0	20.4	28.8	30.0	19.2	27.1	30.0
28.00	232	22.5	30.0	30.0	21.0	29.7	30.0	19.8	28.0	30.0
30.00	150	23.4	30.0	30.0	21.8	30.0	30.0	20.6	29.1	30.0
32.00	150	24.0	30.0	30.0	22.5	30.0	30.0	21.1	29.9	30.0
34.00	150	24.8	30.0	30.0	23.2	30.0	30.0	21.8	30.0	30.0
36.00	150	25.6	30.0	30.0	23.9	30.0	30.0	22.5	30.0	30.0
42.00	100	22.9	30.0	30.0	21.3	30.0	30.0	20.0	28.3	30.0
48.00	100	24.7	30.0	30.0	22.9	30.0	30.0	21.5	30.0	30.0
54.00	50	18.9	26.7	30.0	17.5	24.8	30.0	16.4	23.2	28.4
60.00	50	19.8	28.0	30.0	18.4	26.0	30.0	17.2	24.3	29.8
66.00	50	20.9	29.5	30.0	19.3	27.3	30.0	18.1	25.6	30.0
72.00	50	21.9	30.0	30.0	20.3	28.6	30.0	19.0	26.8	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)).

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Series Specifications 20FR16.E6 (20FR16)

(also includes Series 20FR16-C)

**Table 20FR16.E6M.6C (Metric)
 (Series 20FR16)**

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
15	16	2.1	2.6	2.6	2.1	2.6	2.6	2.1	2.6	2.6
20	16	2.4	2.9	2.9	2.3	2.9	2.9	2.3	2.9	2.9
25	16	2.6	3.2	3.2	2.5	3.2	3.2	2.5	3.1	3.1
40	16	2.9	3.6	3.6	2.8	3.6	3.6	2.7	3.5	3.5
50	16	3.1	4.0	4.0	3.0	3.9	3.9	2.9	3.8	3.8
65	16	3.2	4.3	4.3	3.1	4.2	4.2	3.0	4.1	4.1
80	16	3.4	4.5	4.5	3.2	4.4	4.4	3.1	4.3	4.3
100	16	3.5	4.9	4.9	3.4	4.8	4.8	3.2	4.5	4.7
125	16	3.7	4.9	4.9	3.5	4.8	4.8	3.3	4.7	4.7
150	16	3.8	5.3	5.6	3.5	5.0	5.4	3.4	4.8	5.3
200	16	4.3	6.1	6.4	4.1	5.8	6.3	3.9	5.5	6.1
250	16	4.8	6.9	7.2	4.6	6.5	7.0	4.3	6.1	6.8
300	16	5.3	7.5	7.9	5.0	7.1	7.6	4.7	6.7	7.4
350	16	5.8	8.2	8.6	5.4	7.7	8.3	5.2	7.3	8.1
400	16	6.2	8.8	9.0	5.9	8.3	8.9	5.5	7.8	8.7
450	16	6.6	9.0	9.0	6.2	8.8	9.0	5.9	8.3	9.0
500	16	6.9	9.0	9.0	6.5	9.0	9.0	6.2	8.7	9.0
600	16	7.6	9.0	9.0	7.2	9.0	9.0	6.8	9.0	9.0
650	16	6.6	9.0	9.0	6.2	8.7	9.0	5.8	8.2	9.0
700	16	6.8	9.0	9.0	6.4	9.0	9.0	6.0	8.5	9.0
750	10	7.1	9.0	9.0	6.6	9.0	9.0	6.2	8.8	9.0
800	10	7.3	9.0	9.0	6.8	9.0	9.0	6.4	9.0	9.0
850	10	7.5	9.0	9.0	7.0	9.0	9.0	6.6	9.0	9.0
900	10	7.7	9.0	9.0	7.2	9.0	9.0	6.8	9.0	9.0
1050	7	6.9	9.0	9.0	6.5	9.0	9.0	6.1	8.6	9.0
1200	7	7.5	9.0	9.0	6.9	9.0	9.0	6.5	9.0	9.0
1350	3	5.7	8.1	9.0	5.3	7.5	9.0	5.0	7.0	8.6
1500	3	6.0	8.5	9.0	5.6	7.9	9.0	5.2	7.4	9.0
1650	3	6.3	8.9	9.0	5.9	8.3	9.0	5.5	7.7	9.0
1800	3	6.6	9.0	9.0	6.1	8.7	9.0	5.7	8.1	9.0

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