

Series Specifications 110FW.E6 (110FW)

(also called Series 110)

**Table 110FW.E6.6C
 (Series 110FW)
 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 SG = 0.85			500 psi SG = 1.0			500 psi SG = 1.15		
		1000 psi SG = 0.85	1500 psi SG = 0.85	1000 psi SG = 1.0	1500 psi SG = 1.0	1000 psi SG = 1.15	1500 psi SG = 1.15			
0.50	150	6.3	8.3	8.3	6.2	8.1	8.1	6.2	8.0	8.0
0.75	150	6.8	9.3	9.3	6.7	8.9	8.9	6.6	8.7	8.7
1.00	150	7.3	10.1	10.1	7.1	9.6	9.6	7.0	9.3	9.3
1.50	150	7.9	11.2	11.6	7.7	10.7	10.7	7.5	10.2	10.2
2.00	150	8.4	11.9	12.8	8.1	11.4	11.7	7.8	11.0	11.0
2.50	150	8.7	12.4	13.8	8.4	11.9	12.4	8.1	11.4	11.6
3.00	150	9.0	12.7	14.8	8.6	12.2	13.1	8.3	11.7	12.1
4.00	150	9.4	13.3	16.3	8.9	12.6	14.2	8.5	12.1	13.1
5.00	150	9.7	13.7	16.3	9.2	13.0	14.2	8.7	12.3	13.1
6.00	150	11.6	16.4	20.1	11.0	15.5	17.3	10.4	14.8	15.9
8.00	150	13.5	19.0	23.3	12.7	18.0	20.0	12.1	17.1	18.2
10.00	150	15.1	21.3	26.1	14.2	20.1	22.3	13.5	19.1	20.3
12.00	150	16.6	23.4	28.7	15.6	22.0	24.4	14.8	20.9	22.2
14.00	150	17.9	25.4	30.0	16.9	23.9	26.5	16.0	22.6	24.1
16.00	150	19.2	27.1	30.0	18.0	25.5	28.3	17.1	24.2	25.7
18.00	150	20.4	28.8	30.0	19.1	27.1	30.0	18.1	25.6	27.2
20.00	150	21.5	30.0	30.0	20.2	28.5	30.0	19.1	27.0	28.7
24.00	150	23.6	30.0	30.0	22.1	30.0	30.0	20.9	29.6	30.0
30.00	100	22.2	30.0	30.0	20.8	29.4	30.0	19.6	27.7	30.0
36.00	100	24.4	30.0	30.0	22.8	30.0	30.0	21.4	30.0	30.0
42.00	50	19.4	27.4	30.0	18.0	25.4	30.0	16.9	23.9	29.2
48.00	50	20.7	29.2	30.0	19.2	27.2	30.0	18.0	25.5	30.0
54.00	50	21.9	30.0	30.0	20.4	28.8	30.0	19.1	27.0	30.0
60.00	50	23.1	30.0	30.0	21.4	30.0	30.0	20.1	28.4	30.0
66.00	50	24.2	30.0	30.0	22.5	30.0	30.0	21.1	29.8	30.0
72.00	50	25.3	30.0	30.0	23.5	30.0	30.0	22.0	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 110FW.E6 (110FW)

(also called Series 110)

**Table 110FW.E6M.6C (Metric)
 (Series 110FW)
 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	1.9	2.5	2.5	1.9	2.5	2.5	1.9	2.4	2.4
19	10	2.1	2.8	2.8	2.0	2.7	2.7	2.0	2.6	2.6
25	10	2.2	3.1	3.1	2.2	2.9	2.9	2.1	2.8	2.8
38	10	2.4	3.4	3.5	2.3	3.3	3.3	2.3	3.1	3.1
51	10	2.5	3.6	3.9	2.5	3.5	3.6	2.4	3.3	3.3
64	10	2.6	3.7	4.2	2.5	3.6	3.8	2.4	3.5	3.5
76	10	2.7	3.9	4.5	2.6	3.7	4.0	2.5	3.5	3.7
102	10	2.8	4.0	5.0	2.7	3.8	4.3	2.6	3.7	4.0
127	10	2.9	4.1	5.0	2.8	3.9	4.3	2.6	3.7	4.0
152	10	3.5	5.0	6.1	3.3	4.7	5.3	3.2	4.5	4.8
203	10	4.1	5.8	7.1	3.8	5.4	6.1	3.7	5.2	5.6
254	10	4.6	6.5	7.9	4.3	6.1	6.8	4.1	5.8	6.2
305	10	5.0	7.1	8.7	4.7	6.7	7.4	4.5	6.3	6.8
356	10	5.4	7.7	9.0	5.1	7.2	8.1	4.8	6.8	7.3
406	10	5.8	8.2	9.0	5.5	7.7	8.6	5.2	7.3	7.8
457	10	6.2	8.7	9.0	5.8	8.2	9.0	5.5	7.8	8.3
508	10	6.5	9.0	9.0	6.1	8.6	9.0	5.8	8.2	8.7
610	10	7.1	9.0	9.0	6.7	9.0	9.0	6.3	9.0	9.0
762	7	6.7	9.0	9.0	6.3	8.9	9.0	5.9	8.4	9.0
914	7	7.4	9.0	9.0	6.9	9.0	9.0	6.5	9.0	9.0
1067	3	5.9	8.3	9.0	5.4	7.7	9.0	5.1	7.2	8.9
1219	3	6.3	8.8	9.0	5.8	8.2	9.0	5.5	7.7	9.0
1372	3	6.6	9.0	9.0	6.2	8.7	9.0	5.8	8.2	9.0
1524	3	7.0	9.0	9.0	6.5	9.0	9.0	6.1	8.6	9.0
1676	3	7.3	9.0	9.0	6.8	9.0	9.0	6.4	9.0	9.0
1829	3	7.6	9.0	9.0	7.1	9.0	9.0	6.7	9.0	9.0

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