



# Marine Fenders International, Inc.

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## Ocean Guard™ Low Reaction Foam Filled Fenders

• Tested in accordance with PIANC guidelines.

• Constructed to US Navy specifications.



• Thick, tough filament nylon reinforced non-marking urethane skin



• Heat laminated closed cell energy absorbing foam core.



• Integral swivel end fittings internally connected with a heavy duty stud-link chain

Fender Size		Energy Absorption (60% Compression)		Reaction Force (When EA is Achieved)		End Pull-Through Strength	
English Ø [ft] x L [ft]	Metric Ø [m] x L [m]	ft-kips	kN-m	kips	kN	kips	kN
2 x 4	0.6 x 1.2	7	9	12	53	9.5	42
2 x 6	0.6 x 1.8	11	15	20	89	9.5	42
2 x 8	0.6 x 2.4	15	20	28	125	9.5	42
2 x 10	0.6 x 3.0	19	26	36	160	9.5	42
3 x 5	0.9 x 1.5	19	26	27	120	9.5	42
3 x 6	0.9 x 1.8	23	31	29	129	9.5	42
3 x 8	0.9 x 2.4	33	45	41	182	17	76
3 x 10	0.9 x 3.0	43	58	53	236	17	76
3 x 12	0.9 x 3.7	52	71	65	289	17	76
3 x 14	0.9 x 4.3	62	84	77	342	17	76
4 x 6	1.2 x 1.8	36	49	34	151	17	76
4 x 8	1.2 x 2.4	53	72	50	222	17	76
4 x 10	1.2 x 3.0	71	96	67	298	17	76
4 x 12	1.2 x 3.7	88	119	82	365	34	151
4 x 16	1.2 x 4.9	122	165	113	503	34	151
4 x 20	1.2 x 6.1	156	212	145	645	34	151
5 x 8	1.5 x 2.4	81	110	60	267	17	76
5 x 10	1.5 x 3.0	108	146	80	356	34	151
5 x 12	1.5 x 3.7	135	183	100	445	34	151
5 x 14	1.5 x 4.3	161	218	120	534	34	151
5 x 16	1.5 x 4.9	188	255	140	623	34	151
5 x 18	1.5 x 5.5	214	290	160	712	70	311
6 x 12	1.8 x 3.7	180	244	112	498	34	151
6 x 14	1.8 x 4.3	218	296	135	600	34	151
6 x 16	1.8 x 4.9	256	347	159	707	70	311
6 x 18	1.8 x 5.5	295	400	183	814	70	311
6 x 20	1.8 x 6.1	332	450	206	916	70	311
7 x 14	2.1 x 4.3	292	396	155	689	70	311
7 x 16	2.1 x 4.9	344	466	183	814	70	311
7 x 18	2.1 x 5.5	396	537	211	939	70	311
7 x 20	2.1 x 6.1	448	607	238	1,059	70	311
7 x 22	2.1 x 6.7	500	678	266	1,183	70	311
8 x 12	2.4 x 3.7	280	380	147	654	70	311
8 x 14	2.4 x 4.3	371	503	173	770	70	311
8 x 16	2.4 x 4.9	440	597	205	912	70	311
8 x 18	2.4 x 5.5	508	689	236	1,050	70	311
8 x 20	2.4 x 6.1	577	782	268	1,192	70	311
8 x 22	2.4 x 6.7	645	875	300	1,334	110	489
9 x 14	2.7 x 4.3	466	632	192	854	70	311
9 x 16	2.7 x 4.9	534	724	221	983	70	311
9 x 18	2.7 x 5.5	619	839	256	1,139	70	311
9 x 20	2.7 x 6.1	705	956	292	1,299	110	489
9 x 22	2.7 x 6.7	791	1,073	327	1,454	110	489
10 x 16	3.0 x 4.9	649	880	241	1,072	70	311
10 x 18	3.0 x 5.5	755	1,024	281	1,250	70	311
10 x 20	3.0 x 6.1	861	1,168	320	1,423	110	489
10 x 22	3.0 x 6.7	967	1,311	358	1,592	110	489
10 x 24	3.0 x 7.3	1,051	1,425	391	1,739	110	489
11 x 18	3.4 x 5.5	889	1,205	301	1,339	110	489
11 x 20	3.4 x 6.1	985	1,336	342	1,521	110	489
11 x 22	3.4 x 6.7	1,146	1,554	388	1,726	110	489
11 x 24	3.4 x 7.3	1,219	1,653	421	1,873	110	489
12 x 20	3.7 x 6.1	1,293	1,753	423	1,882	110	489
12 x 24	3.7 x 7.3	1,157	1,569	510	2,268	110	489
13 x 26	4.0 x 7.9	1,944	2,636	591	2,629	110	489
14 x 28	4.3 x 8.5	2,400	3,254	678	3,016	110	489

\* Actual values for above sizes may vary +/- 15% due to variations in materials, speed of compression, temperatures and tolerances.