



# Marine Fenders International, Inc.

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## Ocean Guard™ Extra High Capacity Foam Filled Fenders

• Tested in accordance with PIANC guidelines.

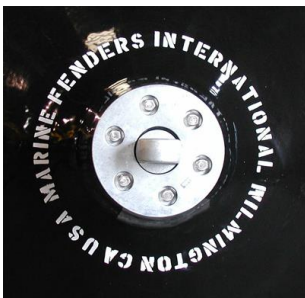
• Constructed to US Navy specifications.



• 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	21	28	38	169	9.5	42
2 x 6	0.6 x 1.8	34	46	63	280	9.5	42
2 x 8	0.6 x 2.4	48	65	89	396	9.5	42
2 x 10	0.6 x 3.0	61	83	114	507	9.5	42
3 x 5	0.9 x 1.5	59	80	86	383	9.5	42
3 x 6	0.9 x 1.8	74	100	91	405	9.5	42
3 x 8	0.9 x 2.4	105	142	129	574	17	76
3 x 10	0.9 x 3.0	135	183	167	743	17	76
3 x 12	0.9 x 3.7	165	224	205	912	17	76
3 x 14	0.9 x 4.3	196	266	243	1081	17	76
4 x 6	1.2 x 1.8	114	155	106	471	17	76
4 x 8	1.2 x 2.4	169	229	158	703	17	76
4 x 10	1.2 x 3.0	224	304	211	939	17	76
4 x 12	1.2 x 3.7	277	376	258	1148	34	151
4 x 16	1.2 x 4.9	386	523	359	1597	34	151
4 x 20	1.2 x 6.1	494	670	460	2046	34	151
5 x 8	1.5 x 2.4	257	348	190	845	17	76
5 x 10	1.5 x 3.0	342	464	255	1134	34	151
5 x 12	1.5 x 3.7	428	580	317	1410	34	151
5 x 14	1.5 x 4.3	511	693	380	1690	34	151
5 x 16	1.5 x 4.9	595	807	443	1970	34	151
5 x 18	1.5 x 5.5	678	919	505	2246	70	311
6 x 12	1.8 x 3.7	570	773	353	1570	34	151
6 x 14	1.8 x 4.3	692	938	428	1904	34	151
6 x 16	1.8 x 4.9	811	1100	504	2242	70	311
6 x 18	1.8 x 5.5	933	1265	580	2580	70	311
6 x 20	1.8 x 6.1	1,053	1428	654	2909	70	311
7 x 14	2.1 x 4.3	925	1254	492	2188	70	311
7 x 16	2.1 x 4.9	1,091	1479	580	2580	70	311
7 x 18	2.1 x 5.5	1,254	1700	667	2967	70	311
7 x 20	2.1 x 6.1	1,419	1924	754	3354	70	311
7 x 22	2.1 x 6.7	1,583	2147	842	3745	70	311
8 x 12	2.4 x 3.7	1,008	1367	468	2082	70	311
8 x 14	2.4 x 4.3	1,176	1595	547	2433	70	311
8 x 16	2.4 x 4.9	1,393	1889	648	2882	70	311
8 x 18	2.4 x 5.5	1,609	2182	749	3332	70	311
8 x 20	2.4 x 6.1	1,826	2476	849	3776	70	311
8 x 22	2.4 x 6.7	2,043	2770	950	4226	110	489
9 x 14	2.7 x 4.3	1,480	2007	611	2718	70	311
9 x 16	2.7 x 4.9	1,691	2293	699	3109	70	311
9 x 18	2.7 x 5.5	1,961	2659	811	3607	70	311
9 x 20	2.7 x 6.1	2,233	3028	923	4106	110	489
9 x 22	2.7 x 6.7	2,504	3395	1,036	4608	110	489
10 x 16	3.0 x 4.9	2,054	2785	764	3398	70	311
10 x 18	3.0 x 5.5	2,390	3241	889	3954	70	311
10 x 20	3.0 x 6.1	2,727	3698	1,015	4515	110	489
10 x 22	3.0 x 6.7	3,063	4153	1,140	5071	110	489
10 x 24	3.0 x 7.3	3,341	4530	1,244	5533	110	489
11 x 18	3.4 x 5.5	2,816	3818	952	4234	110	489
11 x 20	3.4 x 6.1	3,223	4370	1,090	4848	110	489
11 x 22	3.4 x 6.7	3,629	4921	1,227	5458	110	489
11 x 24	3.4 x 7.3	3,959	5368	1,338	5951	110	489
12 x 20	3.7 x 6.1	4,109	5572	1,346	5987	110	489
12 x 24	3.7 x 7.3	4,931	6686	1,615	7184	110	489
13 x 26	4.0 x 7.9	6,156	8348	1,872	8327	110	489
14 x 28	4.3 x 8.5	7,600	10306	2,147	9550	110	489

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