

▶ Marine Cushion™ Foam Filled Fender

Urethane Products Corporation (UPC) engineers a wide range of Fender Systems to protect Naval Vessels, Commercial Tankers, Cruise Ships, Docks and Harbors.

Built to the United States Navy and Coast Guard Stringent Specifications.

Constructed with closed cell energy absorbing foam protected by a non-marking polyurethane elastomer skin reinforced with tire nylon cord for consistent performance over years of service.

Marine Cushion™ net chains & tires consist of aircraft tires wrapped on all sides of the fender with heavy duty galvanized chain secured with galvanized shackles at all connecting points up to the tough clevis plates at each end of the fender.

High Energy Absorption Up to 40% better than comparable sized pneumatic fenders.

Low Reaction Force Slow gradual reaction force compared to hard rubber type fenders.

Easy Installation Can be installed fixed or floating.

Hull Conforming Protrusions from ship hull will not damage or harm fender.

Low Maintenance No pressure relief or inflation valves to maintain.

Unsinkable Even when punctured (unlike pneumatic fenders).

MARINE CUSHION DESCRIPTION

MARINE CUSHION ADVANTAGES



URETHANE PRODUCTS CORPORATION
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Marine Cushion™

▶ Foam Filled Fender Engineering Specification Data

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ENGLISH SIZES					
ENGLISH	METRIC	ENERGY ABSORPTION @ 60% COMPRESSION		REACTION FORCE @ 60% COMPRESSION	
ft x ft	m x m	ft - kips	ton-m	kips	ton
3 x 6	.92 x 1.83	36	5	56	25.4
4 x 8	1.22 x 2.44	85	12	98	44
5 x 10	1.53 x 3.05	165	23	152	68
5 x 16	1.53 x 4.88	262	36	243	110
6 x 12	1.83 x 3.66	282	39	217	98.4
7 x 14	2.13 x 4.27	445	62	294	133
8 x 12	2.44 x 3.66	465	64	268	121
8 x 16	2.44 x 4.88	661	91	381	173
9 x 14	2.75 x 4.27	729	101	373	169
9 x 18	2.75 x 5.49	937	130	480	218
10 x 16	3.05 x 4.88	976	135	450	204
10 x 20	3.05 x 6.10	1280	177	590	267
11 x 18	3.35 x 5.49	1389	192	581	263
11 x 22	3.35 x 6.71	1697	235	711	322
12 x 24	3.70 x 7.30	2196	304	844	383
13 x 26	3.96 x 7.9	2784	385	987	447
14 x 28	4.27 x 8.53	3379	467	1128	511

METRIC SIZES					
METRIC	ENGLISH	ENERGY ABSORPTION @ 60% COMPRESSION		REACTION FORCE @ 60% COMPRESSION	
m x m	ft x ft	ft - kips	ton-m	kips	ton
1.00 x 1.50	3.3 x 4.9	33	5	47	21
1.00 x 2.00	3.3 x 6.6	48	7	67	30
1.20 x 2.00	3.9 x 6.6	64	9	76	34
1.35 x 2.50	4.4 x 8.2	103	14	109	49
1.50 x 3.00	4.9 x 9.8	155	21	146	66
1.70 x 3.00	5.6 x 9.8	196	27	162	73
2.00 x 3.50	6.6 x 11.5	317	44	222	101
2.00 x 4.00	6.6 x 13.1	371	51	259	117
2.20 x 4.50	7.2 x 14.8	500	69	321	146
2.50 x 4.00	8.2 x 13.1	541	75	305	138
2.50 x 5.50	8.2 x 18.0	794	110	447	203
3.00 x 6.00	9.8 x 19.7	1213	168	571	259
3.30 x 4.50	10.8 x 14.3	1007	139	430	195
3.30 x 6.50	10.8 x 21.3	1581	219	675	306
3.30 x 10.6	10.8 x 34.8	2774	384	1184	537
4.20 x 8.40	13.8 x 27.6	3322	459	1109	503

ACTUAL VALUES MAY VARY ±15% DUE TO VARIATIONS IN MATERIALS, TEMPERATURE, TOLERANCES, AND SPEED OF COMPRESSION.
LARGER AND CUSTOM FENDER SIZES AVAILABLE.