

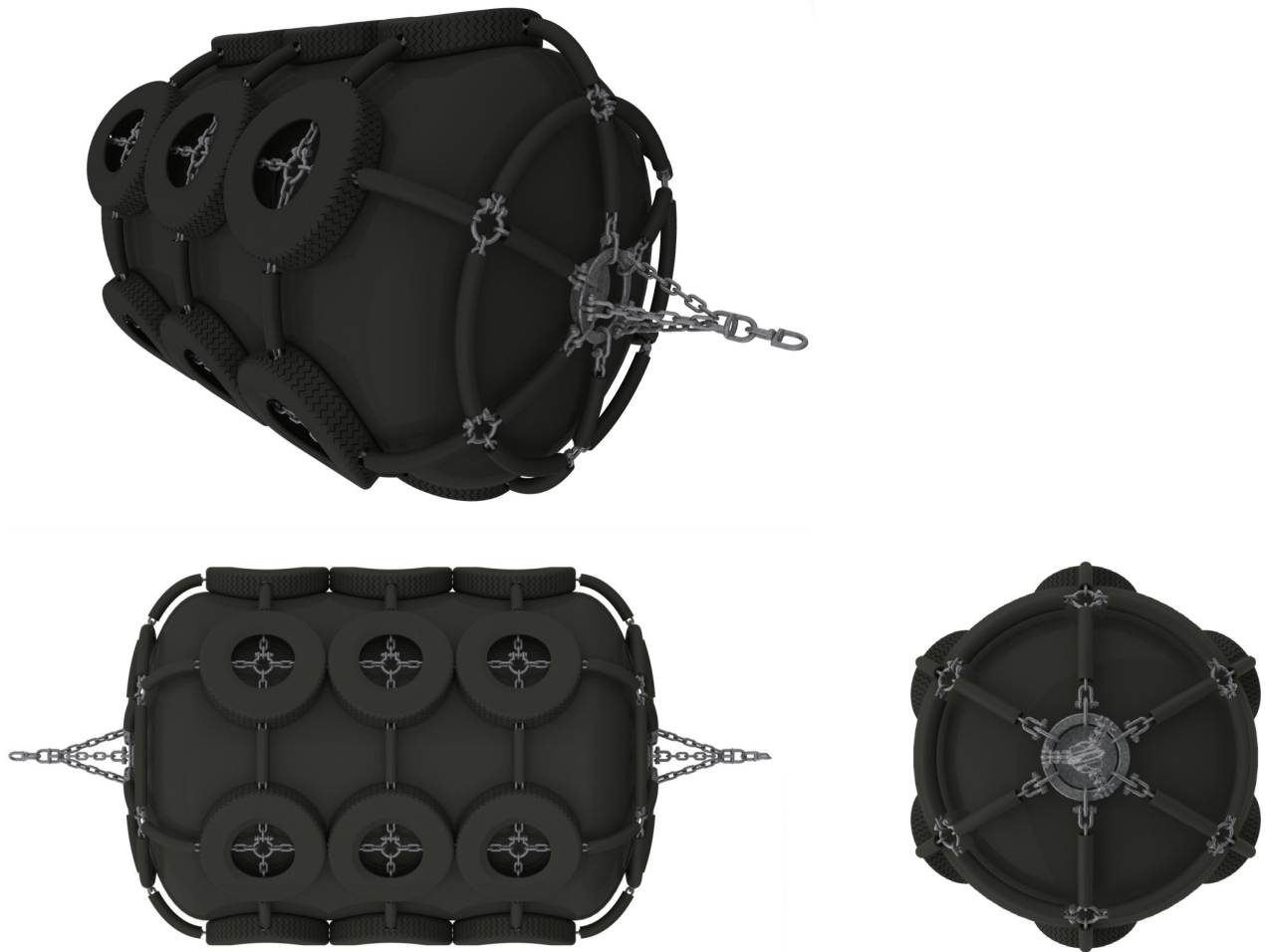


# FENDGUARD

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## Pneumatic Fenders

Pneumatic fenders are extensively used for ship to ship transfer, double banking operation, as well as vessel to berth at dock. They are preferably used in ports with extreme tidal variations. Fendguard's pneumatic fenders can be easily deflated which allows simple and cost efficient relocation, provide protection in both dockside and ship to ship berthing scenarios. We offer a wide range of sizes and they can also be fitted with a tire or chain net for additional protection.



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# PNEUMATIC FENDER PERFORMANCE DATA

INTERNAL INITIAL PRESSURE: 50 kPa (0.5 kgf/cm<sup>2</sup>)

FENDER SIZE MM(D) x MM(L)	ENERGY ABSORPTION		REACTION FORCE		HULL PRESSURE AT 60% DEF.		SAFETY VALVE PRESSURE SETTING		TESTING PRESSURE	
	kN-M	tf-M	kN	tf	kN/m <sup>2</sup>	tf/m <sup>2</sup>	kPa	kgf/cm <sup>2</sup>	kPa	kgf/cm <sup>2</sup>
300 x 600	0.5	0.1	24	2.4	134	13.7	-	-	147	1.5
500 x 800	4.9	0.5	52	5.3	130	13.3	-	-	147	1.5
500 x 1000	6.3	0.6	67	6.8	134	13.7	-	-	147	1.5
600 x 1000	8.8	0.9	78	8	130	13.3	-	-	147	1.5
600 x 1200	10.7	1.1	95	9.7	132	13.5	-	-	147	1.5
700 x 1500	18.7	1.9	142	14.5	136	13.9	-	-	147	1.5
800 x 1500	23.7	2.4	158	16.1	132	13.5	-	-	147	1.5
1000 x 1500	35.5	3.6	189	19.3	126	12.9	-	-	147	1.5
1000 x 2000	50.1	5.1	267	27.2	134	13.7	-	-	147	1.5
1200 x 2000	69.4	7.1	308	31.4	129	13.2	-	-	147	1.5
1200 x 3000	109	11.1	482	49.2	134	13.7	-	-	147	1.5
1350 x 2500	111	11.3	439	44.8	130	13.3	-	-	147	1.5
1500 x 2500	135	13.8	479	48.9	128	13.1	-	-	147	1.5
1500 x 3000	168	17.1	596	60.8	133	13.6	-	-	147	1.5
1500 x 4000	229	23.4	815	83.2	136	13.9	-	-	147	1.5
1700 x 3000	210	21.4	658	67.1	129	13.2	-	-	147	1.5
1700 x 7200	516	52.7	1621	165.4	133	13.6	-	-	147	1.5
2000 x 3000	282	28.8	752	76.7	126	12.9	-	-	147	1.5
2000 x 3500	336	34.3	896	91.4	128	13.1	-	-	147	1.5
2000 x 6000	611	62.3	1651	166	136	13.9	-	-	147	1.5
2500 x 4000	660	67.3	1409	144	141	14.4	177	1.8	196	2.0
2500 x 5500	961	98.1	2051	209	149	15.2	177	1.8	196	2.0
2500 x 9100	1651	166	3482	355	153	15.6	177	1.8	196	2.0
3000 x 5000	1156	116	2021	206	135	13.8	177	1.8	196	2.0
3300 x 4500	1188	121	1921	196	130	13.3	177	1.8	245	2.5
3300 x 6500	1915	195	3097	316	145	14.8	177	1.8	245	2.5
3300 x 10600	3338	341	5998	551	155	15.8	177	1.8	245	2.5
4500 x 7000	3792	387	4497	459	143	14.6	177	1.8	245	2.5
4500 x 9000	4960	506	5883	600	146	14.9	177	1.8	245	2.5
4500 x 12000	6987	713	8284	845	154	15.7	177	1.8	245	2.5

Tolerance +/- 10%

# PNEUMATIC Rib FENDER PERFORMANCE DATA

INTERNAL INITIAL PRESSURE: 50 kPa (0.5 kgf/cm<sup>2</sup>)

FENDER SIZE MM(D) x MM(L)	ENERGY ABSORPTION		REACTION FORCE		HULL PRESSURE AT 60% DEF.		SAFETY VALVE PRESSURE SETTING		TESTING PRESSURE	
	kN-M	tf-M	kN	tf	kN/m <sup>2</sup>	tf/m <sup>2</sup>	kPa	kgf/cm <sup>2</sup>	kPa	kgf/cm <sup>2</sup>
500 x 1000	6.9	0.7	73.7	7.5	148	15.1	-	-	147	1.5
1000 x 1500	39	4	208	21.2	139	14.2	-	-	147	1.5
1000 x 2000	55	5.6	294	30	147	15	-	-	147	1.5
1500 x 2500	148	15.1	527	53.8	141	14.4	-	-	147	1.5
1500 x 3000	184	18.8	656	66.9	146	14.9	-	-	147	1.5
2000 x 3500	370	37.8	986	101	141	14.4	-	-	147	1.5
2000 x 6000	672	68.6	1794	183	150	15.3	-	-	147	1.5
2500 x 4000	726	74.1	1550	158	155	15.8	177	1.8	196	2.0
2500 x 5500	1057	108	2256	230	164	16.7	177	1.8	196	2.0
3300 x 4500	1306	133	2113	216	143	14.6	177	1.8	245	2.5
3300 x 6500	2106	215	3406	348	159	16.2	177	1.8	245	2.5
3300 x 10600	3671	375	5998	606	170	17.3	177	1.8	245	2.5

Tolerance +/- 10%

# PNEUMATIC FENDER PERFORMANCE DATA

INTERNAL INITIAL PRESSURE: 80 kPa (0.8 kgf/cm<sup>2</sup>)

FENDER SIZE MM(D) x MM(L)	ENERGY ABSORPTION		REACTION FORCE		HULL PRESSURE AT 60% DEF.		SAFETY VALVE PRESSURE SETTING		TESTING PRESSURE	
	kN·m	tf·m	kN	tf	kN/m <sup>2</sup>	tf/m <sup>2</sup>	kPa	kgf/cm <sup>2</sup>	kPa	kgf/cm <sup>2</sup>
500 x 600	0.6	0.1	51	5.2	175	17.7	-	-	196	2
500 x 800	6.3	0.6	67	6.8	168	17.1	-	-	196	2
500 x 1000	8.2	0.8	87	8.9	174	17.8	-	-	196	2
600 x 1000	11.2	1.1	100	10.2	167	17	-	-	196	2
600 x 1200	15.8	1.4	125	12.6	171	17.4	-	-	196	2
700 x 1500	24.1	2.5	184	18.8	176	18	-	-	196	2
800 x 1500	30.6	3.1	204	20.8	170	17.3	-	-	196	2
1000 x 1500	45.7	4.7	244	24.9	165	16.6	-	-	196	2
1000 x 2000	64.7	6.6	345	35.2	175	17.7	-	-	196	2
1200 x 2000	89.5	9.1	398	40.6	166	16.9	-	-	196	2
1200 x 3000	140	14.3	623	63.6	175	17.7	-	-	196	2
1350 x 2500	149	15.2	572	58.4	170	17.3	-	-	196	2
1500 x 2500	174	17.8	620	63.3	166	16.9	-	-	196	2
1500 x 3000	218	22.2	776	79.2	175	17.7	-	-	196	2
1500 x 4000	296	30.2	1053	107	176	18	-	-	196	2
1700 x 3000	272	27.8	853	87	168	17.1	-	-	196	2
1700 x 7200	668	68.2	2096	214	172	17.6	-	-	196	2
2000 x 3000	386	39.4	1050	105	172	17.6	-	-	196	2
2000 x 3500	440	44.9	1174	120	168	17.1	-	-	196	2
2000 x 6000	790	80.6	2109	215	176	18	-	-	196	2
2500 x 4000	991	95	1831	187	184	18.8	225	2.3	245	2.5
2500 x 5000	1353	138	2659	271	194	19.8	225	2.3	245	2.5
2500 x 9100	2293	234	4505	460	199	20.3	225	2.3	245	2.5
3000 x 5000	1593	163	2608	266	174	17.8	225	2.3	245	2.5
3300 x 4500	1673	171	2491	254	168	17.1	225	2.3	245	2.5
3300 x 6500	2707	276	4029	411	188	19.2	225	2.3	245	2.5
3300 x 10600	4677	477	6959	710	199	20.3	225	2.3	245	2.5
4500 x 7000	5337	545	5823	594	185	18.9	225	2.3	245	2.5
4500 x 9000	6948	709	7581	774	188	19.2	225	2.3	245	2.5
4500 x 12000	9667	986	10548	1076	196	20	225	2.3	245	2.5

Tolerance +/- 10%

# PNEUMATIC Rib FENDER PERFORMANCE DATA

INTERNAL INITIAL PRESSURE: 80 kPa (0.8 kgf/cm<sup>2</sup>)

FENDER SIZE MM(D) x MM(L)	ENERGY ABSORPTION		REACTION FORCE		HULL PRESSURE AT 60% DEF.		SAFETY VALVE PRESSURE SETTING		TESTING PRESSURE	
	kN·m	tf·m	kN	tf	kN/m <sup>2</sup>	tf/m <sup>2</sup>	kPa	kgf/cm <sup>2</sup>	kPa	kgf/cm <sup>2</sup>
500 x 1000	9	0.9	95.4	9.7	191	19.5	-	-	196	2
1000 x 1500	50.3	5.1	268	27.3	179	18.3	-	-	196	2
1000 x 2000	71.1	7.3	378	38.6	189	19.3	-	-	196	2
1500 x 2500	193	19.7	684	69.8	183	18.7	-	-	196	2
1500 x 3000	241	24.6	857	87.4	191	19.5	-	-	196	2
2000 x 3500	484	49.4	1287	131	184	18.8	-	-	196	2
2000 x 6000	868	88.6	2311	236	193	19.7	-	-	196	2
2500 x 4000	942	96.1	2004	204	201	20.5	225	2.3	245	2.5
2500 x 5000	1353	138	2659	271	194	19.8	225	2.3	245	2.5
3300 x 4500	1693	173	2731	279	184	18.8	225	2.3	245	2.5
3300 x 6500	2732	279	4415	451	206	21	225	2.3	245	2.5
3300 x 10600	4730	483	7627	778	219	22.3	225	2.3	245	2.5

Tolerance +/- 10%