# Donut Fender

Donut fender is a ring-shaped foam-filled fender which is designed to rise and fall with the water level through a central steel monopole, guided by a low-friction UHMW-PE pad.
It rotates freely, so that shear forces can be reduced in both the fender and the vessel, and allows the vessel to move back and forth along the donut fender.

- Energy absorbing foam core
- Heavy duty internal steel core
- Rise and fall with tide variation
- Anti friction bearing UHMW-PE pad
- Free rotation
- High energy absorption with low reaction force
- Easy installation
- Customized colors and designs available
- Low maintenance
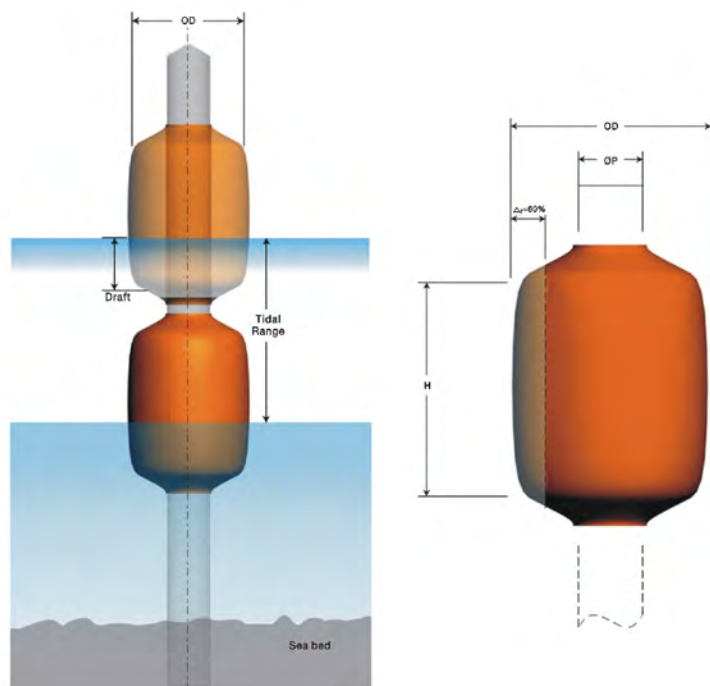
Compounds			Standard Capacity		High Capacity		Extra High Capacity		Super High Capacity	
Deflection			60%		60%		60%		60%	
Fender Diameter	Pile Diameter	Flat Length	E.A. (ton.m)	R.F. (ton)	E.A. (ton.m)	R.F. (ton)	E.A. (ton.m)	R.F. (ton)	E.A. (ton.m)	R.F. (ton)
1,400	600	600	0.6	8.2	1.0	13.2	1.4	20.0	2.1	29.9
1,400	600	900	0.8	12.2	1.4	19.5	2.1	29.9	3.0	44.9
1,400	600	1,200	1.1	15.9	1.8	26.3	2.8	39.9	4.1	59.9
1,400	600	1,500	1.4	20.0	2.2	32.7	3.5	49.9	5.1	74.8
1,400	600	1,800	1.7	24.0	2.8	39.5	4.1	59.9	6.1	89.8
1,400	600	2,100	1.9	28.1	3.2	45.8	4.8	69.9	7.2	104.3
1,400	600	2,400	2.2	32.2	3.6	52.6	5.5	79.8	8.2	119.3
1,500	800	600	0.7	9.5	1.1	15.4	1.7	23.1	2.4	34.9
1,500	800	900	1.0	14.1	1.5	23.1	2.4	34.9	3.6	52.2
1,500	800	1,200	1.4	18.6	2.1	30.8	3.2	46.7	4.8	69.9
1,500	800	1,500	1.7	23.6	2.6	38.1	4.0	58.1	5.9	87.1
1,500	800	1,800	2.1	28.1	3.2	45.8	4.8	69.9	7.2	104.3
1,500	800	2,100	2.4	32.7	3.7	53.5	5.5	81.6	8.3	122.0
1,500	800	2,400	2.8	37.6	4.1	61.2	6.4	93.0	9.5	139.3
2,100	1,100	900	2.1	18.1	3.3	29.5	5.1	44.9	7.7	67.1
2,100	1,100	1,200	2.6	24.0	4.6	39.5	6.8	59.9	10.2	89.8
2,100	1,100	1,500	3.3	29.9	5.7	49.4	8.6	74.8	12.9	112.0
2,100	1,100	1,800	4.0	36.3	6.8	59.0	10.2	89.8	15.4	134.3
2,100	1,100	2,100	4.7	42.2	7.9	68.9	12.0	104.8	18.0	156.9
2,100	1,100	2,400	5.4	48.1	9.0	78.9	13.7	119.8	20.5	179.2
2,300	1,200	900	2.4	20.0	3.7	32.7	5.7	49.9	8.6	74.8
2,300	1,200	1,200	3.0	26.8	5.0	43.5	7.6	66.7	11.3	99.3
2,300	1,200	1,500	3.9	33.6	6.2	54.9	9.5	83.0	14.2	124.3
2,300	1,200	1,800	4.6	40.4	7.5	65.8	11.3	99.8	16.6	149.2
2,300	1,200	2,100	5.4	46.7	8.7	76.7	13.3	116.1	19.9	174.2
2,300	1,200	2,400	6.2	53.5	10.0	87.5	15.2	132.9	22.8	199.1
2,500	1,400	900	2.8	22.2	4.6	36.3	6.9	54.9	10.4	82.1
2,500	1,400	1,200	3.7	29.5	6.1	48.1	9.1	73.0	13.8	109.3
2,500	1,400	1,500	4.6	36.7	7.6	60.3	11.5	91.2	17.1	137.0
2,500	1,400	1,800	5.5	44.0	9.1	72.1	13.8	109.8	20.6	164.2
2,500	1,400	2,100	6.5	51.7	10.6	84.4	16.0	127.9	24.1	191.4
2,500	1,400	2,400	7.5	59.0	12.2	96.2	18.4	146.1	27.5	219.1
2,700	1,500	900	3.3	24.0	5.4	39.5	8.2	59.9	12.3	89.8
2,700	1,500	1,200	4.4	32.2	7.2	52.6	10.9	79.8	16.5	119.3
2,700	1,500	1,500	5.5	40.4	9.0	65.8	13.7	99.8	20.5	149.2
2,700	1,500	1,800	6.6	48.1	10.8	78.9	16.5	119.8	24.6	179.2
2,700	1,500	2,100	7.7	56.2	12.6	92.1	19.1	139.7	28.6	209.1
2,700	1,500	2,400	8.9	64.4	14.4	105.2	21.9	159.7	32.8	239.0

The tolerance shall be ±10%