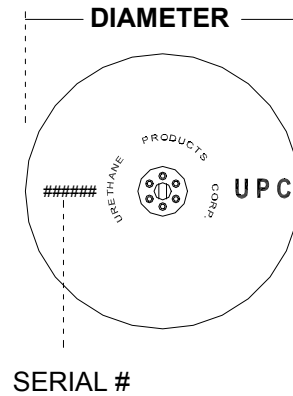
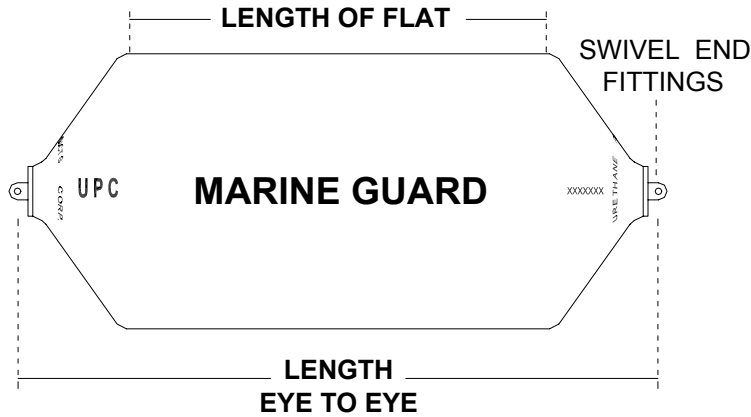




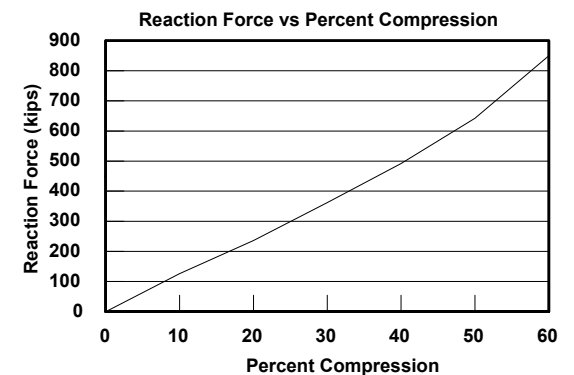
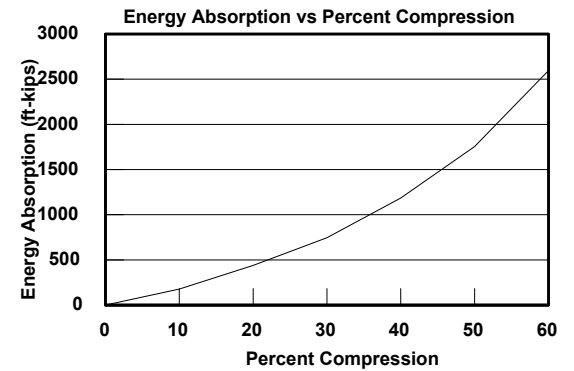
# MARINE GUARD™ Foam Filled Fenders

## 12.0 ft (3.7 m) Diameter x 24.0 ft (7.3 m) Long

### Standard Capacity



12.0 Ft. DIAMETER x 24.0 Ft. LONG	English	Metric
<b>PERFORMANCE* (AT 60% COMPRESSION)</b>		
Energy absorption, ft-kip (ton-m)	2,595	358
Reaction force, kip (ton)	850	385
<b>DIMENSIONS AND WEIGHT</b>		
Diameter, ft (m)	12.0	3.7
Length eye-to-eye, ft (m)	24.0	7.3
Length of flat, ft (m)	15.9	4.8
Skin thickness, in (mm)	1.75	44
Weight, lb. (kg)	16,150	7,325
Cube, ft <sup>3</sup> (m <sup>3</sup> )	3,600	102
<b>TECHNICAL DATA</b>		
Standoff distance:		
Maximum, ft (m)	12.0	3.7
At 60% compression, ft (m)	4.8	1.5
Safe working end-pull load, kip (kN)	110	489
<b>FOOTPRINT (AT 60% COMPRESSION)</b>		
Maximum width, ft (m)	14.9	4.5
Maximum length, ft (m)	19.8	6.0
Area, ft <sup>2</sup> (m <sup>2</sup> )	235	21
<b>RECOMMENDED SIZES OF MOUNTING HARDWARE</b>		
Chain, in (mm)	2.50	64
Shackles, in (mm)	2.50	64
Swivels, in (mm)	2.50	64



\*Above information is for our Standard Capacity *Marine Guard*™ foam filled marine fenders. Actual values for all sizes may vary plus or minus 15% from stated values due to variations in material properties, dimensional tolerances, temperature and speed of compression.