

Marine Fenders International, Inc.

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Ocean Guard™ Ultra High Capacity Foam Filled Fenders

• Tested in accordance with PIANC guidelines.

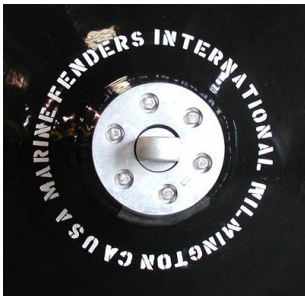
• Constructed to US Navy specifications.



• 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 | 37 | 51 | 68 | 302 | 9.5 | 42 |
| 2 x 6 | 0.6 x 1.8 | 61 | 83 | 112 | 499 | 9.5 | 42 |
| 2 x 8 | 0.6 x 2.4 | 85 | 115 | 160 | 711 | 9.5 | 42 |
| 2 x 10 | 0.6 x 3.0 | 109 | 148 | 204 | 907 | 9.5 | 42 |
| 3 x 5 | 0.9 x 1.5 | 105 | 143 | 153 | 681 | 9.5 | 42 |
| 3 x 6 | 0.9 x 1.8 | 133 | 180 | 163 | 726 | 9.5 | 42 |
| 3 x 8 | 0.9 x 2.4 | 187 | 254 | 231 | 1,028 | 17 | 76 |
| 3 x 10 | 0.9 x 3.0 | 241 | 327 | 299 | 1,331 | 17 | 76 |
| 3 x 12 | 0.9 x 3.7 | 296 | 401 | 367 | 1,633 | 17 | 76 |
| 3 x 14 | 0.9 x 4.3 | 350 | 475 | 435 | 1,936 | 17 | 76 |
| 4 x 6 | 1.2 x 1.8 | 204 | 277 | 190 | 847 | 17 | 76 |
| 4 x 8 | 1.2 x 2.4 | 303 | 410 | 282 | 1,255 | 17 | 76 |
| 4 x 10 | 1.2 x 3.0 | 401 | 544 | 377 | 1,679 | 17 | 76 |
| 4 x 12 | 1.2 x 3.7 | 496 | 673 | 462 | 2,057 | 34 | 151 |
| 4 x 16 | 1.2 x 4.9 | 690 | 936 | 643 | 2,858 | 34 | 151 |
| 4 x 20 | 1.2 x 6.1 | 884 | 1,199 | 823 | 3,660 | 34 | 151 |
| 5 x 8 | 1.5 x 2.4 | 459 | 622 | 340 | 1,512 | 17 | 76 |
| 5 x 10 | 1.5 x 3.0 | 612 | 830 | 456 | 2,027 | 34 | 151 |
| 5 x 12 | 1.5 x 3.7 | 765 | 1,037 | 568 | 2,526 | 34 | 151 |
| 5 x 14 | 1.5 x 4.3 | 915 | 1,240 | 680 | 3,025 | 34 | 151 |
| 5 x 16 | 1.5 x 4.9 | 1,064 | 1,443 | 792 | 3,524 | 34 | 151 |
| 5 x 18 | 1.5 x 5.5 | 1,214 | 1,646 | 904 | 4,023 | 70 | 311 |
| 6 x 12 | 1.8 x 3.7 | 1,020 | 1,383 | 632 | 2,813 | 34 | 151 |
| 6 x 14 | 1.8 x 4.3 | 1,238 | 1,678 | 765 | 3,403 | 34 | 151 |
| 6 x 16 | 1.8 x 4.9 | 1,452 | 1,969 | 901 | 4,008 | 70 | 311 |
| 6 x 18 | 1.8 x 5.5 | 1,669 | 2,264 | 1,037 | 4,613 | 70 | 311 |
| 6 x 20 | 1.8 x 6.1 | 1,884 | 2,554 | 1,170 | 5,202 | 70 | 311 |
| 7 x 14 | 2.1 x 4.3 | 1,656 | 2,245 | 881 | 3,917 | 70 | 311 |
| 7 x 16 | 2.1 x 4.9 | 1,952 | 2,646 | 1,037 | 4,613 | 70 | 311 |
| 7 x 18 | 2.1 x 5.5 | 2,244 | 3,043 | 1,193 | 5,308 | 70 | 311 |
| 7 x 20 | 2.1 x 6.1 | 2,540 | 3,444 | 1,350 | 6,004 | 70 | 311 |
| 7 x 22 | 2.1 x 6.7 | 2,832 | 3,840 | 1,506 | 6,700 | 70 | 311 |
| 8 x 12 | 2.4 x 3.7 | 1,805 | 2,448 | 836 | 3,720 | 70 | 311 |
| 8 x 14 | 2.4 x 4.3 | 2,105 | 2,854 | 979 | 4,355 | 70 | 311 |
| 8 x 16 | 2.4 x 4.9 | 2,492 | 3,379 | 1,159 | 5,157 | 70 | 311 |
| 8 x 18 | 2.4 x 5.5 | 2,880 | 3,905 | 1,340 | 5,959 | 70 | 311 |
| 8 x 20 | 2.4 x 6.1 | 3,267 | 4,431 | 1,520 | 6,760 | 70 | 311 |
| 8 x 22 | 2.4 x 6.7 | 3,655 | 4,956 | 1,700 | 7,562 | 110 | 489 |
| 9 x 14 | 2.7 x 4.3 | 2,649 | 3,592 | 1,095 | 4,870 | 70 | 311 |
| 9 x 16 | 2.7 x 4.9 | 3,026 | 4,103 | 1,251 | 5,565 | 70 | 311 |
| 9 x 18 | 2.7 x 5.5 | 3,509 | 4,758 | 1,452 | 6,458 | 70 | 311 |
| 9 x 20 | 2.7 x 6.1 | 3,995 | 5,417 | 1,652 | 7,350 | 110 | 489 |
| 9 x 22 | 2.7 x 6.7 | 4,481 | 6,077 | 1,853 | 8,242 | 110 | 489 |
| 10 x 16 | 3.0 x 4.9 | 3,675 | 4,984 | 1,367 | 6,080 | 70 | 311 |
| 10 x 18 | 3.0 x 5.5 | 4,277 | 5,800 | 1,591 | 7,078 | 70 | 311 |
| 10 x 20 | 3.0 x 6.1 | 4,879 | 6,616 | 1,816 | 8,076 | 110 | 489 |
| 10 x 22 | 3.0 x 6.7 | 5,481 | 7,432 | 2,040 | 9,074 | 110 | 489 |
| 10 x 24 | 3.0 x 7.3 | 6,157 | 8,349 | 2,292 | 10,193 | 110 | 489 |
| 11 x 18 | 3.4 x 5.5 | 5,039 | 6,833 | 1,703 | 7,577 | 110 | 489 |
| 11 x 20 | 3.4 x 6.1 | 5,766 | 7,819 | 1,948 | 8,666 | 110 | 489 |
| 11 x 22 | 3.4 x 6.7 | 6,494 | 8,806 | 2,196 | 9,770 | 110 | 489 |
| 11 x 24 | 3.4 x 7.3 | 7,082 | 9,603 | 2,394 | 10,647 | 110 | 489 |
| 12 x 20 | 3.7 x 6.1 | 7,354 | 9,972 | 2,407 | 10,707 | 110 | 489 |
| 12 x 24 | 3.7 x 7.3 | 8,823 | 11,964 | 2,890 | 12,855 | 110 | 489 |
| 13 x 26 | 4.0 x 7.9 | 11,016 | 14,938 | 3,349 | 14,896 | 110 | 489 |
| 14 x 28 | 4.3 x 8.5 | 13,600 | 18,442 | 3,842 | 17,089 | 110 | 489 |

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