MARINE FENDER

# Solid Polyurethane Fender

ISO9001 Supplier

Class Certificate

Export Supply

As an alternative to pneumatic rubber buoys, the buoy can meet best quality and performance demands. The manufacturing process of Foam Filled Buoys allows for any size to be constructed and selecting the appropriate grad...



## Key Highlights

| | |
|---|---|
| **Category** | Marine Fender |
| **Standard** | DIN |
| **Material** | Polyurethane |
| **Weight / Size** | The manufacturing process of Foam Filled Buoys allows for any size to be... |
| **Certificate** | CCS,BV,ABS,DNV,LR etc. |

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

## Technical Specifications

| | | | |
|---|---|---|---|
| **Category** | Marine Fender | **Model / SKU** | Solid-Polyurethane-Fender |
| **Standard** | DIN | **Material** | Polyurethane |
| **Weight / Size** | The manufacturing process of Foam Filled Buoys allows for any size to be constructed and selecting the appropriate grade of foam core and elastomeric skin means the performance of a foam filled buoy can be precisely gauged to meet specific specification requirements. | **Surface** | hot dip galvanized |
| **Certificate** | CCS,BV,ABS,DNV,LR etc. | **Warranty** | 12 Months unless specified otherwise |
| **Origin** | China | | |

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## China Solid Polyurethane Fender:

As an alternative to pneumatic rubber buoys, the buoy can meet best quality and performance demands. The manufacturing process of Foam Filled Buoys allows for any size to be constructed and selecting the appropriate grade of foam core and elastomeric skin means the performance of a foam filled buoy can be precisely gauged to meet specific specification requirements.

It is a kind of constructive buoy with polyurea materials as its outer protective layer and EVA foam core forming the resilient inner part. Foam Filled Buoys are constructed of three parts each providing an important function in the construction and lifespan of the buoy. The three parts are closed cell EVA foam,outer rubber + nylon cord fabrics. And Polyurea spraying coat.

There are two types of Foam Filled Buoys, one is CTN Type with chain & tyre net and the other one is Sling Type without chain & tyre net.

## Features:

1.High energy absorption with relatively low reaction force. Compared to the typical pneumatic rubber buoys, the same sized Foam Filled Buoys absorb up to 40% more energy. Additionally, the Foam Filled Buoy will not fail if punctured.

2.Foam Filled Buoys can be used in any tough conditions, providing tough, heavy-duty protection for ship-to-ship, ship-to-dock and ship berthing and mooring applications.

3.Easy to maintenance. As the internal construction consists of a solid heat laminated foam core, there is no need to maintain air pressure, inflation, or relief valves as with pneumatic rubber buoys.

4.Tough, nylon filament reinforced polyurea/polyurethane skin,optional Kevlar reinforcement.

## The following performance parameters of the "standard" EVA foam filled fenders:

| Size | Deflection 60% | | Weight(±3%) |
|---|---|---|---|
| | Reaction force(KN) | Enery absorption(KJ) | (KG) |
| 300×500 | 43 | 5 | 7 |
| 400×800 | 54 | 7 | 17 |
| 500×1000 | 89 | 32 | 23 |
| 700×1500 | 129 | 24 | 85 |
| 1000×1500 | 190 | 62 | 175 |
| 1000×2000 | 298 | 80 | 240 |

| | | | |
|---|---|---|---|
| 1200×2000 | 335 | 110 | 350 |
| 1350×2500 | 460 | 173 | 550 |
| 1500×3000 | 615 | 263 | 770 |
| 1700×3000 | 678 | 330 | 1075 |
| 2000×3500 | 940 | 535 | 1530 |
| 2000×4000 | 1095 | 630 | 1980 |
| 2000×4500 | 1250 | 690 | 2500 |
| 2300×4000 | 1380 | 735 | 2885 |
| 2300×5500 | 1860 | 1133 | 3480 |
| 2500×4000 | 1455 | 980 | 3390 |
| 2500×5500 | 1960 | 1230 | 3985 |
| 3000×5000 | 2180 | 1755 | 5350 |
| 3000×6000 | 2455 | 1960 | 6680 |
| 3300×4500 | 1960 | 1760 | 5750 |
| 3300×6500 | 3075 | 2830 | 8400 |
| 3500×7000 | 3975 | 3162 | 10100 |

1.The above performance parameters measured are based on static state;
2.Above reaction force and energy absorption tolerance of ± 10%;
3.Special sizes are available upon request processing;
4.Fender accessories have all been hot dip galvanized anti-corrosion treatment

Today's vessels demand the absolute best protection for berthing operations.


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