Cone Marine Rubber Fender for Dock Protection

Cone type rubber fender's structure is more reasonable, deflection can reach 70%. The equal specification fender energy absorb raise one more times, long life using.

ADDITIONAL IMAGES

Overview

A standalone cone type rubber fender designed for high energy absorption and low reaction force.

High-Performance Cone Marine Rubber Fender

The Cone type rubber fender represents the 3rd generation of cell-type fenders, featuring a refined structure that allows for deflections up to 70%. This design significantly increases energy absorption compared to standard specifications, effectively reducing dock project costs while ensuring a long service life. It is specifically engineered to maintain stable performance even during angular vessel berthing, making it an ideal choice for large-scale maritime infrastructure.

Key Features

The conical shape provides superior stability and shear resistance during berthing operations.

Design Benefits

- Reasonable structure with deflection reaching up to 70%
- Stable performance during angular berthing
- Surface pressure controlled below 200KN/¡ to protect vessel hulls
- Integrated UHMW-PE face pads to reduce friction and shear strength
- Versatile installation styles for various dock types
- High energy absorption with low reaction force

Performance Metrics

Rated Performance Standards

70 %	72.5 %	200 KN/¡	10 +/- %
Rated Compression Deflection	Max Compression Deflection	Max Surface Pressure	Performance Tolerance

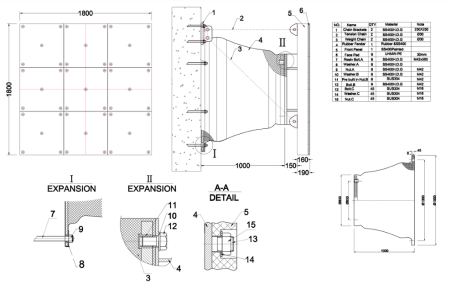
Reaction Force Grades	RS (Ultra High), RH (High), RO (Standard), RL (Low)

Technical Specifications

Fender Performance Data (at 70% Deflection)

Model Type	RS Reaction (KN)	RS Energy (KN-M)	RO Reaction (KN)	RO Energy (KN-M)
TLT-AB 500	335	79	200	47
TLT-AB 800	862	368	502	224
TLT-AB 1000	1339	669	784	437
TLT-AB 1300	2125	1585	1320	1043
TLT-AB 1800	3750	3538	2401	2264

System Components



Detailed assembly drawing showing the rubber fender, front panel, UHMW-PE face pads, and chain support systems.

System Assembly Components

- Rubber Fender Body
- Front Panel (Steel)
- UHMW-PE Face Pads (30mm)
- Tension Chains & Weight Chains
- Chain Brackets
- Resin Bolts, Washers, and Nuts

Quality & Inspection

Accepted Inspection Bodies

BV • LR • ABS • CCS • ISO • DNV

Inspection Policy	Third-party inspection and on-spot inspection are available upon request.