

Guide to Foam Fenders



PRODUCT GUIDE

The Smarter Approach



Guide to Foam Fenders



Connect with The Smarter Approach

By Trelleborg Marine and Infrastructure

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The demanding nature of commercial ports and terminals means you need partnership that provides much more than technically superior products and technologies. You need to work with a partner that combines best practice expertise gained through worldwide experience with a deep understanding of local requirements and regulations. At Trelleborg, we call this the **Smarter Approach**.

Our Smarter Approach combines global reach with feet-on-the-ground local presence, delivering solutions that continually enhance your operations. Smart technologies are at the forefront of improving operational efficiencies. Trelleborg's innovative SmartPort offering deploys the latest in marine technology applications to help ports and terminals optimize their operations.

Connect with a partner that combines smart solutions, proven product capability and industry expertise to maintain and enhance port and vessel performance. Take a Smarter Approach, with Trelleborg Marine and Infrastructure.

This guide is about Foam Fenders and how they are best deployed, including the latest research on the use and effectiveness of Foam Fenders across the marine industry.

Rubber is the traditional material of choice for fenders, with solid and pneumatic designs covering a multitude of uses. However, floating foam fenders have significant advantages over both types of rubber fenders in many cases.

Guarantee performance by using the very best material for your application with our easy to use fender selector.

LIGHTWEIGHT

Foam fenders are easier to install and transport due to their relatively low density. Even large fenders can be moved without using a crane.

VERSATILITY

Low or high reaction force options are available and surfaces are non-marking. These properties plus their buoyancy and compliance with many Navy specifications make Trelleborg foam fenders suitable for just as wide a range of applications as their solid rubber counterparts.

Why foam?

SPEED

Foam fenders can be produced more quickly than solid rubber equivalents, making them ideal for new projects or temporary applications.

DURABILITY

Closed cell polyethylene construction means water ingress and punctures are impossible. Trelleborg foam fenders benefit from a unique construction method leading to an ultra tough skin, they can even be re-skinned after many years of service to gain a new lease of life.

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A Smarter Approach at every stage

A smarter approach to...

CONSULTATION

Consultation from the earliest project phase to ensure the optimum fender systems and marine technology solutions are specified, with full technical support from our global offices.



CONCEPT

Conceptual design in your local office – with full knowledge of local standards and regulations, delivered in your language – for optimized port and vessel solutions.



DESIGN

Concepts are taken to our Engineering Centers of Excellence in India where our team generates 3D CAD designs, application-engineering drawings, a bill of materials, finite engineering analyses and calculations for both our fender systems and marine technology solutions.



MANUFACTURE

Our entire product range is manufactured in-house, meaning we have full control over the design and quality of everything we produce. Our strategically located, state-of-the-art facilities ensure our global, industry leading manufacturing capability.



TESTING

Across our entire product range, stringent testing comes as standard at every step in our in-house manufacturing process. We ensure that lifecycle and performance of our entire product range meets your specifications, and more.



INSTALLATION

Dedicated project management, from solution design right the way through to on-site installation support. We design products and solutions that always consider ease of installation and future maintenance requirements.



SUPPORT

Local support on a truly global scale, with customer support teams all over the world. And this service doesn't stop after a product is installed. You have our full support throughout the entire lifetime of your project, including customized training programs, maintenance and onsite service and support.



THE FUTURE

Deploying the latest in smart technologies to enable fully automated, data-driven decision making that optimizes port and terminal efficiency. At Trelleborg, we're constantly evolving to provide the digital infrastructure our industry increasingly needs.



When you choose Trelleborg you ensure your expectations will be met, because we deliver a truly end-to-end service – retaining vigilance and full control at every stage.

State of the market report

Trelleborg Marine and Infrastructure conducted a survey into the current state of the foam fender market, with the results indicating that foam fenders may be somewhat underutilised globally.

These hull conforming, easily installed fenders are not specified as widely as they should be and this could be leading to decision makers specifying rubber fenders when, in fact, foam would have been a more cost effective material, or better suited to the requirements of the project.

Of the port owners and operators surveyed in Trelleborg's Barometer Report 4, 77% had specified rubber fenders, whereas only 12% had specified foam. This reticence in the market with regards to specifying foam is somewhat surprising given the benefits that foam fenders boast, such as low hull pressure and quick installation and deployment times.

So, why not specify?

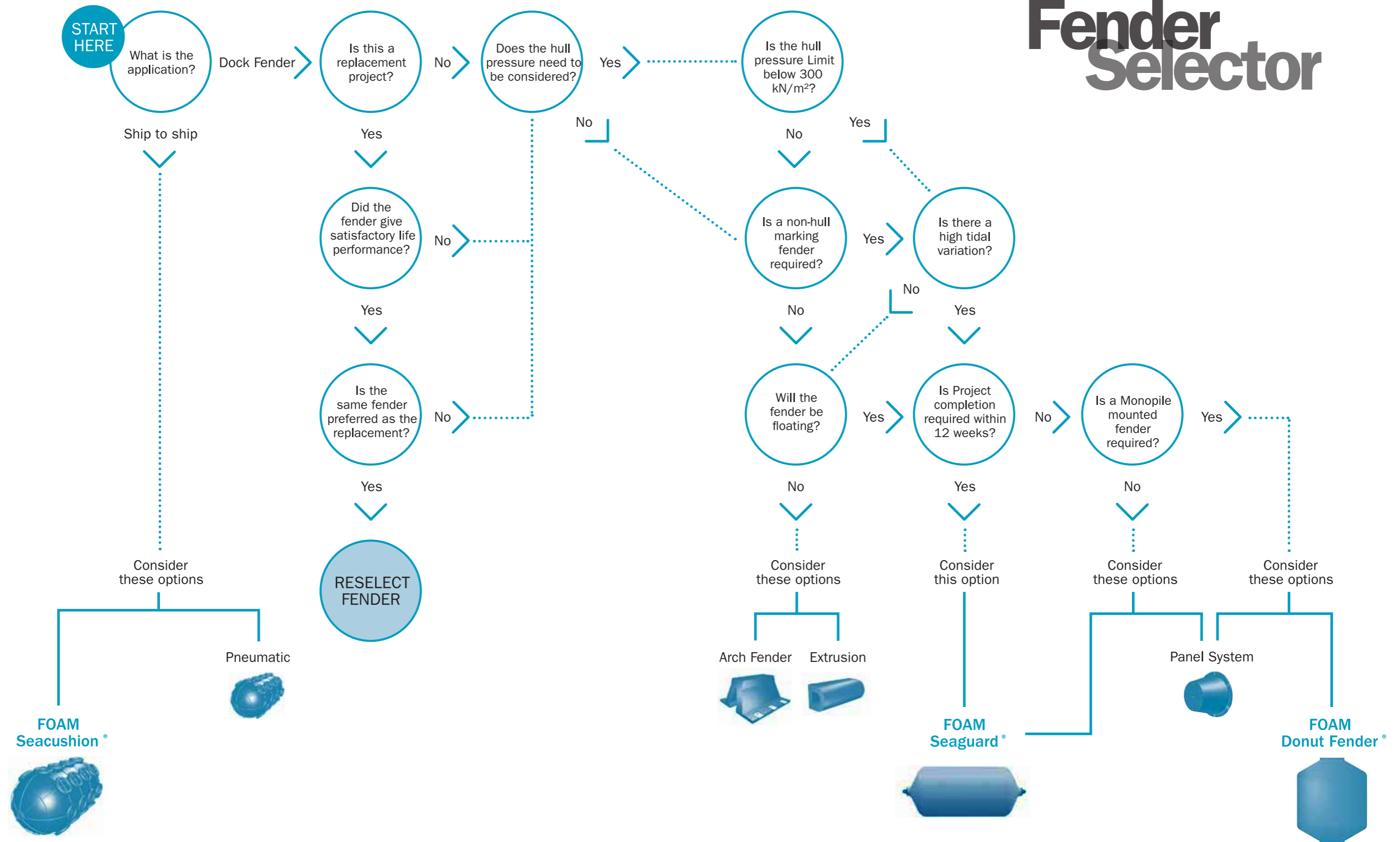
With so many specifiers used to stipulating rubber fenders in their project tenders, they're more inclined to stick to the status quo when purchasing replacements or installing new systems.



Although rubber fenders remain the preferable solution for some applications, Trelleborg wants to raise awareness of the viable alternative that foam can offer and the applications in which a foam fender might be a more cost effective, low maintenance or quickly installed solution.



Fender Selector





Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.

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