

FENDER SYSTEMS – A HOLISTIC APPROACH

ShibataFenderTeam's enhanced focus on in-house design and manufacturing helps to offer customized fender solutions to protect people, ships, and port infrastructure. With more than 50 years' experience in the fender industry, the SFT Group has gained the reputation as the dependable partner in the international port, harbor and waterways market and the corresponding engineering community.

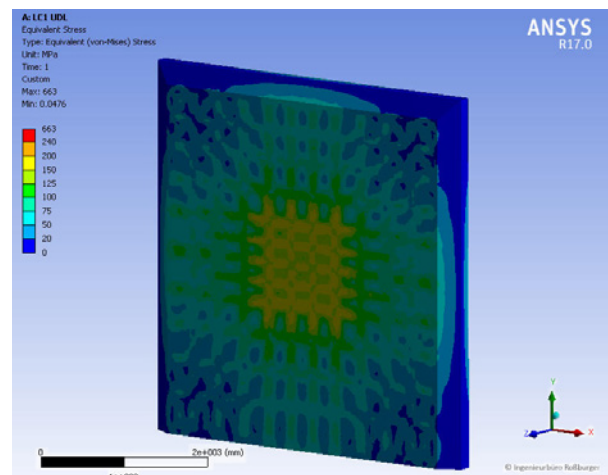
A customized design of the overall fender system is crucial for the successful operation of the system. Therefore, a detailed and extensive design input should be provided by the fender manufacturer at an early project stage. This is one of the main strengths of ShibataFenderTeam in addition to the focus on customized system designs. SFT supports engineering companies, operators, and other stakeholders early on in the project. Already in the planning phase of a project, one can rely on professional expertise and advice. Consulting is provided by the four SFT offices, local agents, and partners. The close connection between their partners and internal resources enables them to globally support a project while ensuring that local standards and regulations are followed and, typically exceeded.

Customized Fender Design.

The engineering of a fender system is a complex process and maintaining a close cooperation between contractor and engineer is crucial.

Since the rubber units are mostly standardized in the industry, the real engineering and, design challenge is with the steel panels, chains and the corresponding anchorage. The rubber unit is a crucial component of the system, but is only as good as the overall design of the system. SFT has inspected numerous systems of even reputable fender manufacturer, that showed signs of premature failures due to incorrect designs. Simple issues like incorrect chain angles or the positioning of the rubber unit on the steel panel and substructure leads to weight introduction into the rubber unit, dropping of the system and premature failure of the fender system as a whole.

[More information](#)



Inexperienced clients and fender suppliers typically point fingers immediately at the rubber unit. In a lot of cases however, it's not the rubber unit that causes the problem, it's the design that leads to failures of the rubber unit. When fenders fail or are not working properly due to low quality or incorrect designs, then there is a cost to the port in terms of repair, downtime,

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or even accidents which should not be underestimated. Each fender type has specific advantages and it depends on the project and the conditions on site which fender type is used for a particular project. Each project has diverse requirements that are all equally important when designing a new fender system. The interaction of the most diverse conditions, ranging from ship size, application, berthing process, to weather conditions at the port, need to be taken into account to design a customized fender system. ShibataFenderTeam's engineers have a long proven track record in the marine construction industry. All SFT products are designed, manufactured, and tested in accordance with PIANC 2002, BS 6349, EAU 2012, EC 3, DIN 18800, BS 5950, and AISC.

In-house Production.



Providing safety critical equipment, ShibataFenderTeam has a strong focus on producing all major components in-house ensuring highest quality and reliability at their own production facilities in Europe and Asia.

ShibataFenderTeam operates rubber fender manufacturing facilities in Malaysia and Japan, which have an extensive proven track record of producing high quality rubber fendering products for decades. Both facilities have state-of-the-art test equipment including a combined shear and compression test press even available for the largest fender sizes. In addition to the performance verification testing, their certified labo-

ratories check constantly all rubber batches used for the production of their high quality fenders in order to verify compliance with material requirements for each single order.

ShibataFenderTeam has a key advantage over other fender manufacturers. They own steel, composite and foam fender production facilities in Germany, which allows them to offer excellent high quality products, produced with German precision and perfection – Fender Systems “Made in Germany”. Since the early nineties, their steel fabrication shop has gained expertise in steel fabrication, corrosion protection, and HD-PE Sliding Fender Extrusion.

Proven in practice.

ShibataFenderTeam's extensive experience and company set-up provides the flexibility and sufficient financial strength to implement large scale projects as well as even small projects demanding precise specifications. In Doha, Qatar, an impressive number of more than 350 Ocean Guard Fenders of different sizes, partly “Made in Germany”, were delivered to the New Doha Port.



Another example is the recent installation in Saudi Arabia at King Abdullah Port. As part of a long term supply agreement ShibataFenderTeam has been supplying SPC1000 and SPC1100 Fender systems. The total supply includes 150+ fender systems and 100+ bollards, mooring rings and ladders. [More information](#)

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For the Boubyan Project at Mubarak Al-Kabeer Seaport in Kuwait, ShibataFenderTeam supplied an impressive 149 nos. CSS Cell Fender systems. [More information](#)

All these large scale orders were delivered on time and in high quality.

Besides these large scale orders, ShibataFenderTeam has established major expertise in the engineering, manufacturing, and delivery of small highly customized projects.

Since 2011, ShibataFenderTeam has been continuously supplying specialized fender systems for various berths at the Port of Dover, UK, for the ongoing rehabilitation

and upgrading program of Dover Harbor Board. As part of this long-term program, SFT supplied custom-built fender systems for berth 7 in September 2015. The stern fender system consists of four large Parallel Motion Fenders, working together and absorbing the berthing energy during the berthing process and provide guidance for the ferry on the linkspan. In addition to the stern fenders, ShibataFenderTeam also supplied the side fenders for this and other berths at the Port of Dover, UK. [More information](#)

Services.

ShibataFenderTeam's support does not end with the successful delivery of the fenders. They are committed to provide support and assistance also throughout the service life of the fender system. With their own installation and maintenance team based in Germany, they can offer global assistance during the installation and/or maintenance works. A site assessment including a customized maintenance plan to assess the condition of the marine furniture is one of the many services offered to their customers.



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SFT Selected Reference Projects

Ready for the next decade.

Overall, SFT Group is the most experienced fender manufacturer in the market with more than 50 years of experience in the manufacturing and supply of rubber fenders and decades of combined experience of fender system design within their sales and engineering group. In the past two years, SFT has opened new offices in Spain and Malaysia to better serve these markets. Maintaining a strong presence means supporting and guiding all stakeholders through every stage of the project, no matter where in the world. ShibataFenderTeam looks forward to the next exciting decade of fender challenges around the globe.

For more information, visit our website at www.shibata-fender.team

or our LinkedIn profile at www.linkedin.com/company/shibatafenderteam

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