

NEWS LETTER

SR.# SEC - 001/2020

Today's Topic!

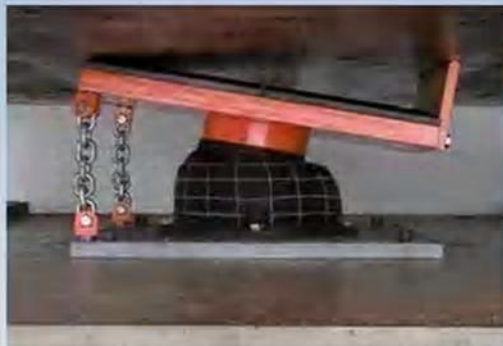
**Q/A - About Quality, Selection
& Specifications for
Rubber Fender's Approval**



**CSS Fender shear testing with
panel and UHMW-PE face pads**



Rubber Fender Testing



**SPC Fender angular compression
testing with restrain chains**



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SHIBATA FENDER TEAM

▶ on the safe side

INTRODUCING MARINE RUBBER FENDERS - GERMANY (Other Locations: USA, Malaysia, Spain, Netherlands)

The ShibataFenderTeam Group is the leading international fender manufacturer with 50+ years of group experience in fender production. ShibataFenderTeam is a dedicated team of true fender experts delivering safety critical fender systems that protect people, ships and port infrastructure.

ShibataFenderTeam offers customized fender solutions. Rely on design consulting, detailed engineering, high quality manufacturing, a global after sales support and testing as per industry standards or even beyond.

They offer a wide range of products for marine applications which exploit their knowledge of rubber, steel, polyurethane and polyethylene. You can expect high quality products at competitive prices.



ShibataFenderTeam delivered fenders for Qasim Bulk Terminal in Pakistan

In 2016, the installation of 25 sets of ShibataFenderTeam SPC 1400 systems at Qasim Bulk Terminal in Karachi, Pakistan has been completed.

The fenders are equipped with frontal panels of 2.300 x 5.600 mm and low friction front face pads of 40 mm thickness. Besides the fender systems SFT has also supplied a number of 6.800 mm long emergency ladders, duplex coated and tailor made to suit the on-site installation below the concrete deck.



SHIBATA FENDER TEAM

▶ on the safe side

Fender installation completed for Qasim Bulk Terminal, Pakistan



Pneumatic Fenders

Sliding Fenders

Tug Boat Fenders



Pictorial view of Installed Marine Rubber Fenders





02. December 2016

New SFT Agent in Pakistan

ShibataFenderTeam announces that Pakistan based Secura Group will be the company's new agent to cover the market in Pakistan. Secura Group will actively support ShibataFenderTeam in acquiring new customers and projects. Additionally, they will be the new local contact for Pakistani ports and consultants. Secura Group has been dealing with SHIBATA rubber fenders since the year 2003 in Pakistan and has successfully completed supplies and installation of SHIBATA Marine Fenders at KPT's NMB Wharf, OP-II, OP-I and PORT QASIM-IOCB Jetties. We are looking very forward to our new partnership.

With the constant additions to our agent's network we strengthen the close cooperation with clients worldwide on a local basis. Together with our offices, we are able to ensure a local contact with global support at any time.

Picture: Qasim Bulk Terminal | Karachi | Pakistan

Q1: WHY "PIANC" CERTIFICATION IS REQUIRED?

Answer :

Testing and verification as per PIANC report "Guidelines for the design of fender systems" is important. It will ensure that fenders will be comparable on the same basis which is very important for designers especially when it comes to the reaction force of the fender, i.e. the load that is introduced into the structure. That is for load sensitive structures in particular important to avoid failure or overload during operation. If fenders were tested according to the PIANC guidelines, it additionally ensures that fenders have undergone performance and property testing in order to verify the performance. By doing so, designers are making sure they get a verified and good product. If a product is not tested at all, the client cannot be sure that they buy a high-quality and durable product. They risk major damages, high cost, downtime of the port and injuries of people working in the port and on vessels. This is usually a good argument to convince clients to buy high quality products and to work with a manufacturer who has expertise and experience.

Pictorial View of Installed Marine Rubber Fenders by SFT



Q2: WHAT ARE THE MAIN FEATURES & BENEFITS FOR THE CUSTOMER/CLIENT IF THEY SET CONDITION TO PROVIDE A CERTIFICATE THAT THE FENDERS WERE TESTED ACCORDING TO PIANC?

Answer :

See above (Q/A#1), additionally, they make performance data of different suppliers comparable and could enforce Additional requirements like testing frequency, fender temperature stabilization, durability testing.

Q3: INTERNATIONAL RECOMMENDATIONS ABOUT RUBBER COMPOUNDING & MIXING?

Answer :

International guidelines about compounding and mixing do not exist. Important are the physical properties of the fender, they are the only reliable indicator of the quality of a product whereas the recipe of the compound does not give any indication on quality. Fenders with different compounds can have similar physical properties (see White Paper 1 about Compounding). It is important to understand that a uniform recipe can be really dangerous as the recipe has to be adjusted to the requirements of each project. It is recommended to request samples of the master batch (after mixing, before curing) for 3rd party property testing and TGA testing. Then perform TGA on the finished product for traceability. Keep in mind that there is a certain variation in the results.

Q4: ANY OTHER TECHNICAL REQUIREMENT WHICH CAN BE PLACED IN THE TENDER SPECIFICATIONS BY WHICH CHEAP MANUFACTURERS WILL FAIL?

⚡ **Answer :**

Combined shear/compression testing with at least 15.000 cycles on a sample and 1 full size shear/compression test.

Product liability insurance of the company with at least 5million coverage, 1000+ references of the manufacturer and 10 reference letters from international clients.

No use of recycled rubber (this is oftentimes done by cheap manufacturers). By using recycled rubber, it is not possible to produce a high-quality fender.

Q5: HOW SHIBATAFENDERTEAM COMPLIES TO THE REQUIRED INTERNATIONAL STANDARDS?

⚡ **Answer :**

A high-quality manufacturer should comply with the requirements mentioned below. Read how SFT complies:

- Combined shear/compression testing with at least 15,000 Cycles on a sample and 1 full size shear/compression test: *own Shear-compression test press at their factory in Malaysia and Fenders are tested as mentioned*
- Product liability insurance of the company with at least 5million coverage: *available*
- 1000+ references of the manufacturer: *more than 6,000 references*
- 10 references letter from international clients: *More than 30 letters available*
- No use of recycled rubber: *Comply*

Coming soon in our next "NEWSLETTERS"

- SR.# SEC-002/2020 - Compounding (White paper# 1)
- SR.# SEC-003/2020 - Mixing (White paper# 2)