

# TYPE EXAMINATION CERTIFICATE

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**This is to certify:**

**That the Fender**

with type designation(s)  
**Ocean Guard**

Issued to

**ShibataFenderTeam AG**  
**Hamburg, Germany**

is found to comply with  
**Guidelines for the Design of Fender Systems : 2002 (PIANC 2002)**

**Application :**

**Foam filled floating fender for marine application**

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Issued at **Hamburg** on **2018-03-05**

for **DNV GL**

This Certificate is valid until **2022-10-31**.

DNV GL local station: **Hamburg**

Approval Engineer: **Joachim Rehbein**

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**Thorsten Lohmann**  
**Head of Section**

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-026362-1**  
Certificate No: **TAS00001CN**

## Product description

Ocean Guard: PU coated – PE Foam Filled Fender  
Size, diameter [mm]: 400 up to 4500  
length [mm]: 10000

## Assessed production site

- Marine Fender International, 909 Mahar Avenue, Wilmington, CA 90744, United States of America
- ShibataFenderTeam Produktions GmbH (formerly F4 Produktions GmbH), Ahornstraße 8, 17248 Rechlin, Germany

## Application/Limitation

This type of fender is approved according to the 'Guideline for the design of Fender Systems: 2002, Appendix A – Constant Velocity' issued by the International Navigation Association(PIANC).

Any significant changes in design and/or quality of the material will render the approval invalid.

If there are any changes to the product design, the design documentation and / or the TE certificate, information about this and revised documentation shall be sent to the DNV GL local office.

## Type Examination documentation

- Initial TE – documentation for KBZ 1244 HH
- Renewal documentation:
  - A0422078\_SFT Ocean Guard Fender - Renewal TA Assessment Report (90.02a) - 2018-01-11
  - A0431701\_MFI Ocean Guard Fender - Renewal TA Assessment Report (90.02a) - 2018-01-11
  - A0460772\_ShibataFenderTeam\_F4\_Rechlin - Renewal TA Assessment Report (90.02a)
  - Supporting documentation ((TDS, product catalogue 08/2017 E, deflection and material tests)

## Tests carried out

- According Type Examination documentation

## Marking of product

Product shall be marked with manufacturer's name and type designation.  
The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Examination Certificate.

## Periodical assessment

Periodical assessments will be carried out bi-yearly(Certificate Retention) and at renewal after 5 years (Certificate Renewal).

When possible, this assessments may be harmonised with normal surveys for product certification and / or other surveys and audits carried out.

A Type Approval Certificate may be renewed for a further period of validity, at the customer's request. An application for renewal shall be submitted to the DNV GL local office.

END OF CERTIFICATE