



Marine & Offshore

Certificate number: 03136/H0 BV

File number: ACM 135/1919/001

Product code: 2265D

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

WALTER STAUFFENBERG GmbH & CO. KG

Werdohl - GERMANY

for the type of product

PIPE CLAMPS

STAUFF clamps - Standard, Heavy, Twin, Twin Heavy, Light, KS, DKS series, U-bolts, Metal Pipe Clamps, and ACT Clamp

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 03 Aug 2023

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 03 Aug 2018,

Jens Bauermeister



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=mlo95xmejc>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

STAUFF pipe clamps

1.1 Size

Series	Pipe Outside Diameter (mm)
STANDARD	6 to 102
TWIN	6 to 42
LIGHT (LN)	6 to 22
KS / DKS	220 to 800
METAL PIPE	20 to 521
TWIN HEAVY	8 to 42

Series	Pipe Outside Diameter (mm)
HEAVY	6 to 450
LIGHT (LB)	3,2 to 25,4
LIGHT (LBBU)	6 to 32
U-BOLT	25 to 521
ACT CLAMP	6 to 42

1.2 Maximum allowable temperature range of clamp bodies

Material	Temperature range (°C)
Polypropylene (PP)	-30/90
Polyamide (PA)	-40/120
Aluminium (AL)	-40/300
Santoprene (SA)	-40/125
Polyamide (PAVO)	-30/120
Polyamide (PA-FF)	-30/120
EPDM	-50/120

Material	Temperature range (°C)
Polypropylene (PPDA)	-25/90
Polypropylene (PP6853)	-25/90
Polypropylene (PP-AC)	-30/90
Polypropylene (PP-V0)	-25/90
ACT/ACE (Anti-Corrosion Elastomer)	-25/90
Santoprene VO (SA-V0)	-50/90

1.3 Material specification

Clamp bodies	Polypropylene, polyamide, thermoplastic elastomer (Santoprene), ACT/ACE (Anti-Corrosion Elastomer), aluminium
Metal parts	Carbon steel St37 / stainless steel 1.4301/1.4305/1.4401/1.4404/1.4571

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.

2. DOCUMENTS AND DRAWINGS

- STAUFF ONE - STAUFF Clamps Manufacturer Catalogue Edition 02/2017
- ACT clamp anti corrosion technology product Catalogue Edition 03/2015
- STAUFF NRC - STAUFF Clamps Manufacturer Catalogue Edition 03/2016

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

Not applicable.

4. APPLICATION / LIMITATION

- 4.1 As clamps for piping systems on board ships and offshore units. In machinery spaces, only the series with a steel cover and at least two screws may be used.
- 4.2 The clamps made of aluminium are not to be used in dangerous areas.
- 4.3 The manufacturer has to inform its clients about proper methods of arrangement, fitting and general maintenance of the clamps.

5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 The products are to be supplied by **WALTER STAUFFENBERG GmbH & CO. KG** in accordance with the type described in this certificate.
- 5.2 This type of product is within the category DBV of Bureau Veritas Rule Note NR320.

6. MARKING OF PRODUCT

Each product is to be at least marked with:

- Manufacturer's name or logo
- Type designation

7. OTHERS

It is **WALTER STAUFFENBERG GmbH & CO. KG**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This certificate supersedes the Type Approval Certificate N° 03136/G0 BV issued by the Society.

***** END OF CERTIFICATE *****