



CERTIFICATE NUMBER	23-2360091-PDA
EFFECTIVE DATE	16-Feb-2023
EXPIRY DATE	15-Feb-2028
ABS TECHNICAL OFFICE	Hamburg Engineering Department

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**WIELAND EUCARO GMBH**

located at

**SENATOR-HELMKEN-STR. 3, , D-28197 BREMEN, Germany**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product:** Flange, CuNi  
**Model:** Composite/ CuNi Weld Neck and Slip-On Flanges, EUCARO®10  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 15/Feb/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

  
Efstratios Maliatsos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**WIELAND EUCARO GMBH**

SENATOR-HELMKEN-STR. 3

D-28197 BREMEN

Germany

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**Tier: 2 - PDA Issued**

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**Product:** Flange, CuNi

**Model:** Composite/ CuNi Weld Neck and Slip-On Flanges, EUCARO®10

**Endorsements:**

**Intended Service:**

Seawater carrying systems like fire fighting or cooling systems on offshore units (drilling rigs, workboats, semisubmersibles, FSO, and FPSO).

**Description:**

Inner/Outer Flanges, Composite Slip-On Flanges, Welding Neck Flanges, Slip-On Flanges and Blind Flanges.

Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 28", 32", 36".

Slip-On Sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4".

**Rating:**

Working Pressure/ Temperature Range: 16 bar/ - 29° C to 75° C,  
20 bar/ - 29° C to 38° C (in accordance with EEMU specifications).

**Service Restriction:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

External pressure is to be considered for systems inside deep tanks which may be subject to head of liquid on the outside of the pipe.

**Comments:**

Each particular application of the flanges is to be approved in conjunction with the relevant piping system in which they are used.

The manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

All piping fittings are to bear permanent identification, such as manufacturer's name or trademark, standard of compliance, material identity, pressure rating, etc., as required by the standard of compliance or the manufacturer's specification. Such markings may be cast or forged integral with, stamped on, or securely affixed by nameplate on the component, and are to serve as a permanent means of identification of the component throughout its service life in accordance with 4-6-1/7.1.4 & Table 2 of the Marine Vessel Rules.

**Notes/Drawing/Documentation:**

See Attached File.

**Terms of Validity:**

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This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

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## **STANDARDS**

### **ABS Rules:**

- 2023 Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3 and A4, which covers the following:
- 2023 Rules for Building and Classing Marine Vessels: 4-1-1/TABLE 6; 4-3-4/9.5.2, 4-6-1/5, 4-6-1/7.5.2, 4-6-2/3.3/5.5/5.9, 4-6-7/Table 1
- 2023 Rules for Conditions of Classification - Offshore Units and Structures: 1-1-A2, 1-1-A3, 1-1-4/9.7, which covers the following:
- 2023 Rules for Building and Classing Mobile Offshore Units: 4-2-2/11, 6-1-6/5

### **National:**

NA

### **International:**

NA

### **Government:**

NA

### **EUMED:**

NA

### **OTHERS:**

EEMUA 234 (2015, 1st. Edition)