



**Work Order - WO0330317
Product Design Assessment (PDA) -
Revalidation
Epoxy Resin Chock
PDA No. 25-0330317-PDA**

Attention: WEICON GMBH & CO. KG (WCN: 461764)

The documents shown in the attached list are reviewed or filed for reference in accordance with the applicable requirements indicated in the PDA along with the service restrictions and comments.

We recommend that you monitor the ABS Rules, Guides and other standards used in the Assessment. These Rules, Guides and standards often change on an annual basis, and you must comply with the new Rules, Guides and standards in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules, Guides or specifications.

Additionally, we acknowledge the PDA request form warranting that the materials used in the product(s) are free from asbestos.

For any clarifications, contact James Oehrle at JOehrle@eagle.org.

Very truly yours,

Gareth Burton
Senior Vice President of Engineering

Electronically Signed by: Satya Meruva

Documents List

Drawing No.	Rev. No.	Title	Status
01 100 1600536	-	ISO 9001:2015	Filed by ABS for Reference Only
10.06.2025	-	WEICON CBC	Reviewed
Client Letter	-	Declaration_WEICON_CBC	Reviewed

Electronic copies of the documents, appropriately stamped, are available in the ABS MyFreedom™ Client Portal.

Include: PDA Certificate 25-0330317-PDA

All Documents approved by 25-0330317-PDA are listed in the attachment to the PDA certificate.



CERTIFICATE NUMBER	25-0330317-PDA
EFFECTIVE DATE	28-Jul-2025
EXPIRY DATE	27-Jul-2030
ABS TECHNICAL OFFICE	Houston Materials

CERTIFICATE OF Product Design Assessment

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

WEICON GMBH & CO. KG

located at

**KOENIGSBERGER STRASSE 255, , DE - 48157 MUENSTER,
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: Epoxy Resin Chock
Model: WEICON CBC
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 27/Jul/2030 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

Satya P.K. (Satya Meruva) Meruva, Manager

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)

WEICON GMBH & CO. KG

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Web: www.weicon.com

Tier: 2 - PDA Issued

Product: Epoxy Resin Chock

Model: WEICON CBC

Endorsements:

Intended Service:

Marine, Offshore & Industrial application - Foundation chocking of propulsion machinery, generators, deck machinery, sterntubes, strut and rudder bearings and other auxiliary machinery.

Description:

Two part Epoxy resin with aluminium filler for the shimming and back filling of difficult to be aligned systems. It serves as a replacement for fittings and worn metal sheets and ensures the direct contact to foundation plates.

Rating:

Mixing ratio by weight %, Resin:Hardener - 100:30

Compressive strength - 70 N/mm²

Tensile Modulus - 4170 N/mm²

Hardness - 80 Shore D

Service Temperature

- up to 50 °C, degrees Celsius, in as cured condition at room temperature.

- up to 80 °C, degrees Celsius, after curing at room temperature and tempering at 90 °C degrees Celsius.

Loading conditions at service temperature

- Deadweight loading, due to machinery weight only, should not exceed 0.9 N/mm².

- Total loading on the resin chocks, due to deadweight of the machinery plus hold down bolts, shall not exceed 5 N/mm².

- For alignment sensitive equipment, the maximum loads and temperature are to be reviewed on a case by case basis in accordance with the manufacturer requirements and ABS Rules.

Service Restriction:

1. Unit Certification is not required for this product.

2. 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.

Comments:

1. Prior to each individual installation for alignment of sensitive equipment, a chocking plan is to be submitted for review and shall include the total dead weight of the unit to be chocked, number and size of chocks, number and size of holding down bolts including tightening torque, etc., and calculations showing that the manufacturer's specified allowable pressure is not exceeded, are to be submitted for review in each case as per 4-2-1/11.5, 4-3-2/11.1.3 and 4-3-4/21.1 of ABS Steel Vessels Rules.

2. The arrangements and installation procedures for alignment sensitive equipment are to be in accordance with the equipment Manufacturer's recommendations.

3. In case of chocking installation for stern tubes and struts the assembly should have means to prevent bearing(s) from rotating with the shaft. In addition, there should be a sealing arrangement to prevent seawater contact with the chocking material and inflow into the bearing unless this is a water lubricated arrangement. The machinery manufacturers shall be consulted regarding their approval/recommendations in connection with the use of WEICON CBC.

4. The chocking installation is to be carried out by qualified personnel in accordance with WEICON's established and recommended procedure. Upon completion of the pouring of subject compound correct alignment of the machinery is to be verified and suitable warning notices are to be fitted in conspicuous places in the relevant compartment to avoid

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unintentional re-tightening of down holding foundation bolts.

5. Minimum thickness of the chock is a function of application's ambient temperature as per resin chock Manufacturer's instruction Manual.

6. Upon completion of the solidification/curing of subject compound, correct alignment of the machinery is to be verified and suitable warning notices are to be fitted in conspicuous places in the relevant compartment to avoid unintentional re-tightening of hold down foundations bolts.

7. Sufficient information, instructions, alignment and measuring records, as well as the necessary tools, are to be provided on board for future checking of the alignment, chocks, and pre-tensioning of bolts.

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

Notes/Drawing/Documentation:

Drawing No., WEICON_CBC, Revision: -, Pages:

Drawing No. 10.06.2025, WEICON CBC, Revision: -, Pages:

Drawing No. 01 100 1600536, ISO 9001:2015, Revision: -, Pages:

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 27/Jul/2030 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.

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STANDARDS

ABS Rules:

2025 Rules for Conditions of Classification, Part 1 - 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2025 Marine Vessels Rules: 4-2-1/11.5, 4-3-2/11.1.3, 4-3-4/21.1

2025 High Speed Craft Rules 4-3-1/23.3.5

2025 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2025 Offshore Support Vessels Rules: 4-2-1/11.5, 4-3-2/11.1.3, 4-3-4/21.1

National:

NA

International:

NA

Government:

NA

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EUMED:

NA

OTHERS:

NA