

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Vinyl Ester Resins**with type designation(s)
DION® 9133 Series

Issued to

Reichhold AS
Sandefjord, Norway

is found to comply with

Det Norske Veritas' Rules for Classification of High Speed, Light Craft and Naval Surface Craft, Grade 1**Det Norske Veritas Standards' for Certification No. 2.21, Craft, 2010****Det Norske Veritas' Type Approval Programme 1-501.9, 2012, Polyester- and Vinylester Resins, Gelcoats and Topcoats****Application :****For use in marine vessels according to stated Rules/Standard.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2019-06-30**.Issued at **Høvik** on **2015-07-30**DNV GL local station: **Sandefjord**Approval Engineer: **Gisle Hersvik**for **DNV GL**

Martin Strande
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.



Job Id: **262.1-019948-1**
Certificate No: **TAK000001M**

The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

DION® 9133 Series.

Medium reactive bisphenol A epoxy based vinyl ester resin.

Variants, non-LSE products:

DION® 9133-700

DION® Impact 9133-000, DION® Impact 9133-200, DION® Impact 9133-800

Manufactured by

Reichhold AS, Øraveien 8/19, 1630 Gamle Fredrikstad, Norway

DNV GL local office: Sandefjord

Reichhold Srl, Via Romagnoli 23, 43056 San Polo di Torrile (Parma), Italy

DNV GL local office: Milan

Reichhold UK Limited, 54 Willow Lane, Mitcham, Surrey, United Kingdom CR4 4NA

DNV GL local office: London

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name, place of production 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 Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical Assessment to be performed after two (2) years (Certificate Retention) and at renewal after four (4) years (Certificate Renewal).

The main elements of the Periodical Assessment are to:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.



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END OF CERTIFICATE