



TYPE APPROVAL CERTIFICATE

Certificate no.:

Revision No:

with type designation(s)

issued to

is found to comply with

Issued at on

This Certificate is valid until

DNV local unit:

Approval Engineer:

for



Digitally Signed By:
Martin Wenning
Location: DNV Hamburg,
Germany

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 Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.



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Chopped Strand Mats: , and

Legends:

E: E-Glass

MC: Chopped Mat

300, 450, 600, 900: Weight per unit area, g/m²

The following indicative properties have been verified by Type Testing of laminates:

Tensile Strength	ISO 527-1,4	130.30	121.40	122.72	134.14	mean	MPa
Tensile Modulus	ISO 527-1,4	9.60	9.67	9.47	10.15	mean	GPa
Flexural Strength	ISO 14125	238.22	228.19	225.83	218.64	mean	MPa
Flexural Modulus	ISO 14125	9.79	9.62	10.07	9.24	mean	GPa
Fibre content by weight	ISO 1172	36.18 (t) 36.15 (f)	36.56 (t) 36.71 (f)	33.26 (t) 33.07 (f)	37.75 6.6%		



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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 assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE