



LABORATORY APPROVAL

Certificate No.:
LA-DNV-SE-0436-08264-1

Issued:
2025-01-22

Valid until:
2028-01-21

Issued for:

Mechanical and analytical testing of plastic and fibre reinforced materials

Issued to:

SAERTEX GmbH & Co. KG

Brochterbecker Damm 52
48369 Saerbeck, Germany

According to:

DNV-SE-0436:2022-09 Shop approval in renewable energy

Applying:

DNV-SE-0441:2021-10 Type and component certification of wind turbines

Based on the document:

CR-LA-DNV-SE-0436-08264-1

Certification Report, dated 2025-01-14

This laboratory approval is valid for the test methods listed in Annex 1.

Changes in the relevant processes (testing and quality) or in responsible personnel as named in this certificate are to be approved by DNV. See Annex 1 for listing of personnel.

Hellerup, 2025-01-22

For DNV Renewables Certification

Christopher Harrison
Service Line Leader Component Certification



By DAkkS according to DIN EN IEC/ISO 17065 accredited Certification Body for products. The accreditation is valid for the fields of certification listed in the certificate.

Hamburg, 2025-01-22

For DNV Renewables Certification

Bernhard Krüger
Project Manager

LABORATORY APPROVAL – ANNEX 1

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DIN EN ISO 527-5	Plastics - Determination of tensile properties Part 5: Test conditions for unidirectional fibre- reinforced plastic composites
DIN EN ISO 14125	Fibre-reinforced plastic composites Determination of flexural properties
DIN EN ISO 14126	Fibre-reinforced plastic composites Determination of compressive properties in the in-plane direction
DIN EN ISO 14129	Fibre-reinforced plastic composites Determination of the in-plane shear stress/shear strain response, including the in-plane shear modulus and strength, by $\pm 45^\circ$ tension test method
DIN EN ISO 14130	Fibre-reinforced plastic composites Determination of apparent interlaminar shear strength by short beam-method
ISO 13003 (Tension – Tension)	Fibre-reinforced plastics - Determination of fatigue properties under cyclic loading conditions <i>In combination with LA-PA-006: Dauerschwing Eigenschaften nach ISO 13003 (Determination of fatigue properties according to ISO 13003)</i>
ASTM C297/C297M	Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
ASTM C393/C393M	Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure
ASTM D2344/D2344M	Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates
ASTM D3518/D3518M	Standard Test Method for In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a $\pm 45^\circ$ Laminate
ASTM D6641/D6641M	Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials Using a Combined Loading Compression (CLC) Test Fixture
ASTM D7078/D7078M	Standard Test Method for Shear Properties of Composite Materials by V-Notched Rail Shear Method

The authorized personnel who will sign the test reports:

- Ms. Carolin Solzbacher
- Mr. Nils Otte
- Dr. Paul Kipke