

# Statement of Approval

Approval No. **WP 1530012 HH**

The material described below complies with the applicable requirements as given in the Rules and Regulations of GL. On this basis the material is

approved as **Carbon Fibre Reinforcement**

for the construction of components provided that the recommendations for use as specified by the producer are observed.

Type **Panex 35**

Description **50K Continuous Tow**

Producer **Zoltek Corporation  
3101 McKelvey Road  
Missouri 63044  
St. Louis  
United States of America**

Normative Reference **GL Rules for Classification and Construction,  
II - Material and Welding Technology  
Part 2 Non-Metallic Materials**

Remarks **Further DNV GL approved production plant is listed in the annex.**

This document consists of this page and a one-page annex which is integral part of the approval.

This Statement of Approval is valid until 2019-04-06.

Hamburg, 2015-04-07

**DNV GL SE**

Guido Michalek

Joachim Rehbein

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**ANNEX**

Date: 2015-04-07

Approval No. WP 1530012 HH

Page 1 of 1

Reference Documents Technical specifications deposited at DNV GL SE, Hamburg.

Assessed Documents

- Technical Data Sheet
- Test Report No. B584/13 issued by IMA Dresden, dated on 2013-12-13
- Workshop inspection and test witnessing carried out by DNV GL on Feb 25th 2015.

Fields of Application Construction of FRP laminates of components, on condition that the resins comply with the applicable requirements of GL and are compatible to the fibre reinforcements.

Approved Variants

- PANEX 35 50K manufactured from polyacrylonitrile (PAN) precursor.

Limitations Any significant changes in design and/or quality of the material will render the approval invalid.

Remarks Additional production plant:  
Zoltek Zrt.  
Varga József tér 1  
2537 Nyergesújfalu  
Hungary

This certificate supersedes the approval WP 1130012 HH.

End of Annex

**DNV GL SE**