

Statement of Approval



Approval No. **WP 1330009 HH**

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

approved as **R-Glass Fibre**

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

Type **HiPer-tex W2020**

Description **Direct Roving**

Producer **3B-Fibreglass Norway AS
Tollenesveien 60, Tollnes
4795 Birkeland
Norway**

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

Remarks **Approval is partly based on fatigue tests with
- R = -1 from N 10³ up to 10⁷ load cycles
- R = 0,1 from N 10³ up to 10⁶ load cycles**

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 2017-01-31.

Hamburg, 2013-01-21

Germanischer Lloyd


Guido Michalek


Stefan Röhr

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ANNEX

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Date: 2013-01-21
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Reference Technical specifications deposited at Germanischer Lloyd Head Office.

Assessed Documents - Technical Data Sheet
- Test Report No.:
B246/12.1
B204/12.1A
B204/12.3A1
B204/12.2A
Issued by IMA Dresden, dated on December 2012.

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

| Approved Variants | Type designation | TEX | Filament Diameter |
|-------------------|-------------------|------|-------------------|
| | - HiPer-tex W2020 | 300 | 16 |
| | - HiPer-tex W2020 | 600 | 17 |
| | - HiPer-tex W2020 | 1200 | 17 |
| | - HiPer-tex W2020 | 2400 | 17 |

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

End of Annex

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