

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Glass Fibre Products**

with type designation(s)  
**SE 3030 - Series**

Issued to

**3B-Fibreglass S.P.R.L.**  
**Battice, Belgium**

is found to comply with  
**DNV GL class programme DNVGL-CP-0082 – Type approval – Glass fibre rovings**

**Application :**

**Manufacturing of fabrics and/or fibre reinforced plastics.**

Issued at **Hamburg** on **2018-12-11**

for **DNV GL**

This Certificate is valid until **2023-12-10**.

DNV GL local station: **Hamburg Materials & Welding**

Approval Engineer: **Guido Michalek**

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**Thorsten Lohmann**  
**Head of Section**

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.



## Product description

Direct ECR Glass Roving SE 3030 for Epoxy, Polyester and Vinylester Resins

## Approved variants

Properties	Test Method	SE 3030 300	SE 3030 600	SE 3030 1200	SE 3030 2400	SE 3030 4800	Unit
Density	ISO 1889	300±25	600±36	1200±72	2400±144	4800±288	TEX
Filament Diameter	ISO 1888	16±1	17±1	17±1	17±1	24±1	µm
Loss on Ignition	ISO 1887	0.55±0.20	0.55±0.12	0.55±0.12	0.55±0.12	0.55±0.12	%
Moisture Content	ISO 3344	≤0.15	≤0.15	≤0.15	≤0.15	≤0.15	%

## Limitation

The roving complies with the applicable requirements of DNV GL and is compatible to the laminating resin. Any significant changes in design and / or quality of the material will render the approval invalid.

## Type Approval documentation

- Technical Data Sheet
- Test Report No. WMC-2016-047g, issued by WMC Knowledge Centre Netherlands, dated 2016-10-03.
- Test Report No. WMC-2016-047h, issued by WMC Knowledge Centre Netherlands, dated 2016-10-03.
- Test Report No. WMC-2016-047j, issued by WMC Knowledge Centre Netherlands, dated 2016-10-03.
- Workshop Inspection Report issued by DNV GL Hamburg
- Quality Assurance Documentation

## Assessed production sites

3B-Fibreglass S.P.R.L.  
Rue de Maestricht 67  
4651 Battice  
Belgien

3B-Fibreglass S.P.R.L.  
Colvale, Bardez  
Goa, 403513  
India

## Periodical assessment

A production site with a valid Approval of Manufacturer (AoM) certificate for material in question is exempted from the obligation concerning retention and renewal assessments.

For manufacturer without a valid AoM a periodical assessment after 2.5 years and at renewal after 5 years is required.

END OF CERTIFICATE