DNV·GL

Certificate No:
TAK00001BD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Prepreg Materials

with type designation(s)
Carbon SparPreg

Issued to
Gurit (UK) Ltd.
Newport, Isle Of Wight, United Kingdom

is found to comply with
DNV GL class programme DNVGL-CP-0431 – Type approval – Prepreg materials

Application :

Manufacturing of FRP laminates.

Issued at **Hamburg** on **2018-12-14**
This Certificate is valid until **2023-12-13**.
DNV GL local station: **Hamburg Materials & Welding**

Approval Engineer: **Guido Michalek**

for **DNV GL**

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.

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Job Id: **262.1-026924-1**
Certificate No: **TAK00001BD**

Product description

Unidirectional (0°) hot-melt epoxy carbon fibre prepreg with curing temperatures between 85°C and 120°C and curing times between 45 min and 10 hours (depending on curing temperature).

Approved variants

Nominal Area Weight:	909 g/m²
Nominal Fibre Weight:	600 g/m²
Resin Content:	31 - 37 % (by weight)
Fibre Type:	High Tenacity (HT)[1)]
	High Modulus (HM)[2)]
	Intermediate Modulus Carbon (IMC)[3)]

[1)] HT is the DNV GL definition according to DNV GL Class Programme CP-0096 and is comparable to Gurit's High Elongation Carbon (HEC) definition.

[2)] HM is the DNV GL definition according to DNV GL Class Programme CP-0096 and is comparable to Gurit's High Modulus Carbon (HMC) definition.

[3)] Intermediate Modulus Carbon (IMC) is a Gurit definition.

Type Approval documentation

- Technical Data Sheet
- Test Report No. 8469 issued by the DNV GL approeved (Approval No. AOSS0000DHK) Testing Laboratory of Gurit (UK), dated 2012-08-06.
- Fatigue Test Report No. K14048208 issued by ACCUTEK Fairfield USA; dated on 2015-02-23.
- Approval of Manufacturer (AoM) No. AMPM0000023 valid until 2021-02-28.
- Quality documentation

Assessed production sites

Gurit (UK) Ltd.
St. Cross Business Park
Newport PO30 5WU
United Kingdom

Gurit (Spain) Ltd
Polígono Industrial Romica, Calle 4
Parcela 11C, Albacete 02080
Spain

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.

Remarks

This certificate supersedes the Type Approval WP 1530019 HH.

END OF CERTIFICATE