

# TYPE APPROVAL CERTIFICATE

with type designation(s)

Issued to

,

is found to comply with

,

This Certificate is valid until .

Issued at on

,

,

for

DNV GL local station:

Approval Engineer :

\_\_\_\_\_

,

,

,

,

,

,

,

,

,

,

,

,

,

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.

\_\_\_\_\_

Job Id:  
Certificate No:

Direct Roving; , for Filament Winding, Pulpusion and Weaving.

Glass type: E6-CR  
Size Type: Silane  
Size Code: 396

Linea density, tex	300	600	1200	2400
Filament diameter, $\mu\text{m}$	13	17	17	17

Variants;

E6-CR13-300-396  
E6-CR17-600-396  
E6-CR17-1200-396  
E6-CR17-2400-396

The approval is valid for the above listed linea densities.

Designed for use with unsaturated polyester, vinyl ester, epoxy and polyurethane resin systems.

Intended for use in uni- and multi-axial multi-ply fabrics, wind energy blade etc.

1. Test Report No. BG160618101 for "E6CR17-600-396" from Testing Centre of Jushi Group Co., Ltd. of 2016-06-18.
2. CNAS Accreditation Certificate CNAS L1990 of 2013-04-25.
3. GL Statement No. GL-LZ 1108 HH-2 of 2011-05-19.
4. Type Approval Assessment Report from DNV GL Alexandria of 2016-05-16.
5. Technical Data Sheet, E6-CR396.
6. FLOW CHART - Description of quality control arrangement.
7. JSEG-G015-14; Organization Charter (2015-11-15).
8. JSEG-G054-01; Quality Control and Non-Conforming products Procedure (2014-07-14).
9. J125-01; SAFE USE INSTRUCTIONS For Continuous Glass Fiber Products (2016).
10. Technical Standard of E6CR-396-Series.
11. Type Approval Application of 2016-01-25.
12. POWER OF ATTORNEY (2016-02-04).
13. Jushi Egypt Plant Layout.
14. ISO 9001-Certificate, ISO 14001-Certificate and OHSAS 18001-Certificate.
15. Company Information/Profile.

Type Testing carried out in accordance with .

Product shall be marked with ; and

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

Job Id:  
Certificate No:

r r r r r r r r

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations have been made to the product design or choice of materials.

Periodical Assessment to be performed after 2 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

r r r r r r r r

The main elements of the Periodical Assessment are to:

Ensure that [redacted] is available.

Review design, materials, production process and performance with respect to possible changes, in order to ensure compliance with [redacted] and/or referenced material specifications.

Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE