



# BIRO KLASIFIKASI INDONESIA

## SERTIFIKAT PERSETUJUAN TIPE

### *Type Approval Certificate*

No. 00034.18.TP02239

No. Persetujuan : 00269TA18  
*No. of approval*

Tanggal persetujuan : 13 Desember 2017  
*Date of approval*

**Dengan ini dinyatakan** bahwa produk dibawah ini telah memenuhi dan disetujui  
*This is to certify that the following products has been complied and approved*

berdasarkan persyaratan dari Peraturan dan/atau Standard yang tercantum dibawah ini  
*in accordance with requirements of the Rules and / or Standards listed below*

Produk : **FIBER GLASS REINFORCING MATERIALS**  
*Product*

Pembuat : **JUSHI GROUP CO. LTD**  
*Manufacturer*  
669 Wenhua Rd (S), Tongxiang Economic Development Zone, Zhejiang,  
P.R.China

Tipe produk : **EWR**  
*Type designation*

Standard persetujuan :  
*Approval standards*

Rules for Approval of Manufacturers and Service Suppliers (Pt. 1, Vol. XI)  
Rules for Non-Metallic Materials (Pt. 1, Vol. XIV)  
Guidance for The Approval and Type Approval of Materials and Equipment for Marine  
Use (Pt. I, Vol. W)

Sertifikat ini berlaku hingga tanggal yang ditetapkan di bawah dengan syarat pemeriksaan periodik  
*This certificate remains valid until the date set below provided that periodical surveillances*

dilakukan tepat waktu dan setiap perubahan atau modifikasi pada produk diberitahukan ke BKI.  
*are carried out on time and any alterations or modifications to the approved product notified to BKI.*

Sertifikat ini berlaku sampai dengan : **12 Desember 2022**  
*This certificate is valid until*

Jakarta, 27 Februari 2018

a.n. Direktur Operasi  
Kepala Departemen Operasi Klasifikasi  
*o.b. Operation Director*  
*SVP of Classification Operation*

**Ir. Totok Achmad Sugiharso**

- Jika Peraturan atau Standard yang digunakan mengalami perubahan pada saat sertifikat ini masih berlaku, maka produk harus dilakukan persetujuan ulang sebelum dipasang dikapal yang menerapkan Peraturan atau Standard tersebut.  
*Should the specified Rules or Standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended Rules or Standards apply.*

## Ketentuan Persetujuan

### Approval Condition

#### Deskripsi Produk

##### Product Description

EWR is bidirectional fabrics woven roving (0°/90°) made from e-glass rovings.

Type Designation : EWR 600, EWR 800.  
Mass per unit area (g/m<sup>2</sup>) : 600, 800  
Weave : Plain weave

Type Designation : EWR 500T  
Mass per unit area (g/m<sup>2</sup>) : 500  
Weave : Twill

#### Kondisi Persetujuan

##### Approval condition

1. The approval is valid for the above-mentioned nominal weight range.
2. Used for manufacturing ships and component made of FRP.
3. Individual certification is not required.

#### Dokumentasi Persetujuan Tipe

##### Type Approval Documentation

1. Product data sheet and material safety data sheet.
2. Manufacturer Quality Manual no JS/01-QSHE-2016, Procedures, and Records.
3. Test report no. BG171213102 issued by Jushi Testing Center accepted by BKI.
4. BKI assessment report for type approval no. 02239 -TP/C1/2017

#### Penandaan Produk

##### Marking of Product

The product or packing shall be marked with manufacturer's name, type designation, batch / lot number, dimension, and BKI's approval number (00269TA18).

#### Pemeriksaan periodik

##### Periodical Surveillance


For retention of the Type Approval, a BKI Surveyor shall conduct periodical surveillance every year to verify that approved quality system, etc. of the manufacturing works are maintained satisfactorily.

The main scope of the Periodical Surveillance will normally include:

- Verification of the manufacturer's production and quality system with regard to ensure continued consistent production of the Type Approved products at the manufacturer's premises.
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, material and performance of the product
- Verification of the product marking.

**Lembar Pengukuhan**  
*Endorsement Sheet*

Harus dikukuhkan oleh Surveyor BKI  
 To be endorsed by BKI Surveyor

Pemeriksaan periodik pertama (12 September 2018 s/d 12 Maret 2019) <i>First periodical surveillance (12 September 2018 till 12 March 2019)</i>  No. Laporan : 0390 - TP / CI / 2019 <i>Report no.</i>	Tanggal : 11 Maret 2019 <i>Date</i>   Surveyor : Syaharuddin Nur
Pemeriksaan periodik kedua (12 September 2019 s/d 12 Maret 2020) <i>Second periodical surveillance (12 September 2018 till 12 March 2020)</i>  No. Laporan : <i>Report no.</i>	Tanggal : <i>Date</i>  Surveyor :
Pemeriksaan periodik ketiga (12 September 2020 s/d 12 Maret 2021) <i>Third periodical surveillance (12 September 2018 till 12 March 2021)</i>  No. Laporan : <i>Report no.</i>	Tanggal : <i>Date</i>  Surveyor :
Pemeriksaan periodik keempat (12 September 2021 s/d 12 Maret 2022) <i>Fourth periodical surveillance (12 September 2018 till 12 March 2022)</i>  No. Laporan : <i>Report no.</i>	Tanggal : <i>Date</i>  Surveyor :

Catatan : Persetujuan akan ditangguhkan secara otomatis dan sertifikat menjadi tidak berlaku jika tidak dikukuhkan setiap tahun dalam rentang waktu yang telah ditetapkan diatas.  
*Note*  
 The approval will be automatically suspended and the certificate become invalid if not endorsed annually within the specified period above.

