Certificate No: LR2002074TA
Issue Date: 03/03/2020
Expiry Date: 25/03/2024

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**JEIL E&S CO LTD**
Address	309 Chungyeol-Ro, Yangsan-Si, Gyeongnam-do, 50592, Korea
Place of Production	JEIL E&S CO LTD 309 Chungyeol-Ro, Yangsan-Si, Gyeongnam-do, 50592, Korea
Type	Gasket
Description	Compressed Non-Asbestos Sheet & Gasket
Trade Name	LEAKBLOK® P200
Application	Marine piping system Hot oil & oil gas : Below 20 kg/cm^2 at 260 °C Fresh water, alkali, sea water :Below 30 kg/ cm^2 at 260 °C Organic solvent : Below 20 kg/cm^2 at 260 °C Steam Service : Below 10 Kg/cm^2 at 180 °C
Specified Standard	LR Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, July 2019 ISO 19921:2005(E) : Ship and marine technology – fire resistance of metallic pipe components with resilient and elastomeric seal – Test methods ISO 19922:2005(E) : Ship and marine technology – fire resistance of metallic pipe components with resilient and elastomeric seal – Requirements imposed

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A member of the Lloyd's Register group

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on the test bench
ASTM F152-95(2017) :Standard test methods for tension testing of non-metallic gasket materials
ASTM F36-15 : Standard test method for compressibility and recovery of gasket materials

Ratings

Sheet Thickness (mm): 0.8~3.2
Short-term peak : 350°C
Maximum continuous : 220 °C
Short term peak : 80 kg/cm^2
The producer's "Remark & Warning"are to be complied with.

Additional Tests

Fire tests have been carried in accordance with ISO 19921:2005(E) & ISO 19922:2005(E).
Material physical properties test – Tensile strength, compressibility and recovery, Fluid Resistance test.

Other Conditions

- 1) The insulation set is to be installed and maintained in accordance with the manufacturer's instructions.
- 2) Type Approval does not eliminate the need for normal inspection survey procedures required by the Rules and Regulation.
- 3) If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to its being supplied to vessels to which the amended standards apply.
- 4) (in case of applications other than Marine) The application of this Type Approval Certificate will be limited to the relevant scope of the Specified standards and acceptance thereof by the local authorities.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

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The Design Appraisal Document No. LR2002074TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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