

Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	U.P. Twiga Fibreglass Ltd.
Address	Twiga House, 3, Community Centre, East of Kailash, New Delhi, 110065, India
Type	Non-Combustible Material
Description	Fire-Resisting Material
Trade Name	Twiga Insul Fibreglass Insulation Material
Specified Standard	IMO Res. MSC.61 (67) - (FTP Code) Annex 1 Part 1 IMO MSC/Circ.1120 IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 1 IMO Res. MSC.307(88) – (2010 FTP Code) Section 8

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

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Jessica Evans

Senior Surveyor to Lloyd's Register EMEA
A member of the Lloyd's Register group

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2013237SF

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

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This certificate is a renewal of certificate SAS F140313/M1

APPROVAL DOCUMENTATION

TEST REPORTS

TUV SUD PSB Fire Test Laboratory, Tuas Avenue, Singapore; Fire Test Report No. S08MEC03240/LGJ dated 24th June 2008.

TUV SUD PSB Fire Test Laboratory, Tuas Avenue, Singapore; Fire Test Reports No. 7191084208-MEC14/A-MHA dated 7th July 2014 and No. 7191095472-MEC14-MHA dated 26th September 2014.

CONDITIONS OF CERTIFICATION

1. Consisting of: fibreglass wool insulation material, minimum density 16kg/m³, maximum density 80kg/m³.
2. Composition of all sub component materials, including any fire retardants, to be maintained in production in accordance with originally tested composition formula.
3. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
4. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

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PLACE OF PRODUCTION

U.P. Twiga Fiberglass Ltd.
9 Sikandrabad Industrial Area
District Bulandshahr
Uttar Pradesh 203 205
India

U.P. Twiga Fiberglass Ltd.
N-40 Additional Ambernath Industrial Area
MIDC, Shill Badlapur Road
Ambernath (East)
Dist. Thane 421 506
Maharashtra
India



Jessica Evans
Senior Specialist
Statutory Fire & Safety
Marine Technology and Engineering Services
Global Technology Centre
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).