

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU and 2012/32/EU subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer	Foshan Hongzan Building Materials Co Ltd
Address	No 2, East Eco-industrial Park, Lishui Town, Nanhai District, Foshan, Guangdong,, 528244 People's Republic of China,
Annex A1 Item	A.1/3.64 'C' CLASS DIVISIONS
Product Type	C Class Division
Product Description	Aluminium Honeycomb Panel with Low Flame Spread Adhesive-Type: "AHP-A", for use in C Class divisions
Specified Standard	IMO Res. MSC.307 (88)-(2010 FTP Code) Annex 1, Part 5 and Annex 2

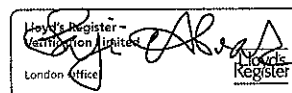
The attached Design Appraisal Document (schedule) forms part of this certificate.

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

Date of issue 21 May 2014 Expiry date 20 May 2019

Certificate No. MED 1450118

Signed



Sheet No 1 of 3

Name

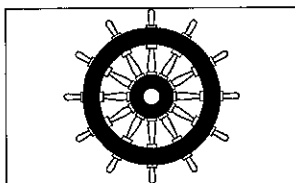
S. Abraham

For and on behalf of Lloyd's Register Verification

LRV EC Distinguishing No. 0038

Note:

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 the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK.

A subsidiary of Lloyd's Register Group Limited.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email med@lr.org

Page	2 of 3
Document number	MED 1450118
Issue number	1

DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
21 May 2014	MTES/SFS/TA/SA/WP17861230

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 1450118

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL DOCUMENTATION

Far East Fire Testing Centre, Shanghai, People's Republic of China; Fire Test Report No: FT13121 dated 22 May 2013 and No: FT13272 dated 20 November 2013

CONDITIONS OF CERTIFICATION

1. Type "AHP-A" aluminium honeycomb panel consisting of: aluminium honeycomb core constructed using type: "PAPU-03" two component Polyurethane adhesive applied at 200g/m² and bonded to the aluminium facing sheets using the same type: "PAPU-03" two component Polyurethane adhesive applied at 200g/m². The adhesive satisfied low flame spread criteria when tested to 2010 IMO FTP Code Annex 1 Part 5.
2. Smoke and toxicity criteria is satisfied by meeting the total heat release (Qt) and peak heat release rate (Qp) as stated in IMO Fire Test Procedures Code, Annex 2, section 2.2.
3. Approval is limited to the adhesive used in the Aluminium honeycomb panel.
4. All materials other than adhesives used in the construction of the C Class division should be non-combustible. Combustible veneers and surface finish materials are to be separately approved.
5. Construction of the C Class division in particular the thickness of the panels should be confirmed as being suitable for the specific application by the relevant project approval authority at the plan approval stage.
6. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
7. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.



Lloyd's
Register

Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS
Telephone 020 7423 2416 Fax 020 7423 2053
Email med@lr.org

Page	3 of 3
Document number	MED 1450118
Issue number	1

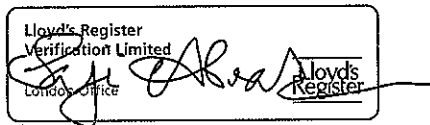
DESIGN APPRAISAL DOCUMENT

Date 21 May 2014	Quote this reference on all future communications MTES/SFS/TA/SA/WP17861230
---------------------	--

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 1450118

PLACE OF PRODUCTION

Foshan Hongzan Building Materials Co Ltd
No: 2, East Eco-industrial Park,
Lishui Town,
Nanhai District,
Foshan,
Guangdong, 528244,
People's Republic of China



Saji Abraham
Senior Specialist
Statutory Fire and Safety
Marine Technology and Engineering Services
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038