

## 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, 2012/32/EU and 2013/52/EU subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer</b>	BBMG Energy Saving Material & Technology Company
<b>Address</b>	Gaojing #2, Chaoyang District, Beijing 100123 People's Republic of China
<b>Annex A1 Item</b> <b>USCG Category Number</b>	<b>A.1/3.11a 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY (a) 'A' CLASS DIVISIONS</b> <b>164.105 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY (DECK ASSEMBLY)</b>
<b>Product Type</b>	<b>A-60 DECK</b>
<b>Product Description</b>	Steel Deck Insulated on the underside with Type: "CY-120" Mineral Wool Insulation (40mm thick, 120 kg/m <sup>3</sup> density)
<b>Specified Standard</b>	IMO Res. MSC.307(88)-(2010 FTP Code) Annex 1 Part 3

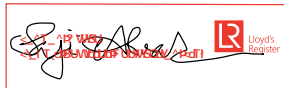
The attached Design Appraisal Document (schedule) forms part of this certificate.

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	15 June 2015	Expiry date	14 June 2020
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Certificate No.	MED 1550144
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Signed

  
S. Abraham  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

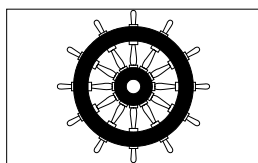
Sheet No	1 of 3
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Name

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 product has been assigned a U.S. Coast Guard Module B number:

**USCG Module B number: 164.105/EC0038**

## USCG-EU MRA

to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

**This certificate is issued under the authority of the MCA.**

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Lloyd's  
Register

## Lloyd's Register Verification Limited

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### DESIGN APPRAISAL DOCUMENT

Date 15 June 2015	Quote this reference on all future communications MTES/SFS/TA/DQW/SA/WP21412945
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1550144

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 (FEFTC), Shanghai, China; Fire Test Report No. FT15058 dated 16 February 2015.

#### CONDITIONS OF CERTIFICATION

1. A-60 Class steel deck insulated on the underside with two layers of (20mm thick, 120 kg/m<sup>3</sup> density) type: "CY-120" mineral wool insulation manufactured by BBGM Energy Saving Material & Technology Company. The two layers of insulation is retained to both the steel plate and the stiffeners using 3mm diameter steel pins and 30mm diameter steel washers at maximum 367mm x 250mm staggered joints and at a maximum distance of 50mm from all joints and edges.
2. 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.
3. This product has been assigned a **U.S. Coast Guard Module B number USCG Approval Category 164.105/EC0038** to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment".

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly.

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements.

4. 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.



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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1550144

##### PLACE OF PRODUCTION

BBGM Energy Saving Material & Technology Company Dachang Branch  
Xia'an Road, #8, Dachang County,  
Hebei Province  
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