



# 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.

**Manufacturer** Wozair Limited  
 5 & 6 Saracen Close  
**Address** Gillingham Business Park  
 Gillingham  
 Kent, ME8 0QN  
 United Kingdom (UK)

**Annex A1 Item** A.1/3.22 - FIRE DAMPERS  
**USCG Category Number** 164.139 - DAMPERS

**Type** FIRE DAMPER (STANDARD FIRE TEST)

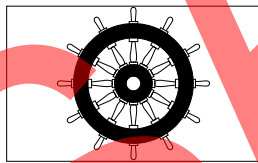
**Description** Single/Multi Bladed Rectangular Fire Damper - Type: "LFD"

**Specified Standard** IMO Res. MSC.61(67) - (FTP Code) Annex 1, Part 3 and  
 IMO MSC/Circ.1120.  
 IMO Res. MSC.307 (88) - (2010 FTP Code), Section 8.

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	9 May 2015	Expiry date	8 May 2020
Certificate No.	MED 1550127/M1	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

USCG-EU MRA

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: 164.139/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."

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.



DESIGN APPRAISAL DOCUMENT

Date 09 May 2015	Quote this reference on all future communications MTES/SFS/TA/SA/WP21963111
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1550127/M1

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

Warrington Fire Research Centre Ltd., Warrington, United Kingdom, Fire Test Reports No. 122471, dated 15 April 2002, No. 143264, dated 21 December 2004 and No. 143265, dated 22 December 2004.

Wozair's Technical File, Document No. PD002/MED/TD01, Rev. 0 ("Type LFD, MFD Fire Dampers"), dated 30 April 2002.

CONDITIONS OF CERTIFICATION

- For use in conjunction with 'A-0', 'A-15', 'A-30' and A-60 class divisions with the ducting protected with insulation suitable for the rating of the division. The table below shows the minimum total duct insulation lengths which may be interpolated for the intermediate sizes based on the internal cross-sectional area of the duct.

	100mm x 100mm	600mm x 600mm	800mm x 800mm
Bulkhead	675mm	845mm	910mm
Deck	650mm	845mm	910mm

- Minimum size of duct opening: 100mm wide x 100mm high.
- Maximum size of duct opening: 800mm wide x 800mm high.
- Suitable for use with Actuator Types: Frangible Bulb Thermal Trigger, SCHISCHEK Type EX, BELIMO type BF and BLE, Solder Link Thermal Trigger and POWERTORK PT series.
- 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.
- This product has been assigned a U.S. Coast Guard Module B number USCG Approval Category 164.139/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.

- 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.



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

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Document number MED 1550127/M1
Issue number 1

**DESIGN APPRAISAL DOCUMENT**

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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1550127/M1**

**PLACES OF PRODUCTION**

Wozair Limited  
5 & 6 Saracen Close  
Gillingham Business Park  
Gillingham  
Kent, ME8 0QN  
United Kingdom (UK)

Matromatic Handling Systems (M) Sdn. Bhd.  
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Johor Darul Takzim  
Malaysia

Wozair (USA) Limited  
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United States of America (USA)

Garfam Industries Inc.  
14703 West Hardy  
Houston  
Texas 77060  
United States of America (USA)

Nam Hoe Metal Industries (Pte) Ltd  
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Singapore  
639036

Wozair (Asia) Pte Ltd  
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Singapore  
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#96-31 Munsan-Gongdan-Gil  
Oedong-Eup  
Gyeongju 780-826  
Republic of Korea



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



# EC TYPE EXAMINATION (MODULE B) CERTIFICATE

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**USCG Category Number** 164.139 - FIRE DAMPERS

**Type** FIRE DAMPER (STANDARD FIRE TEST)

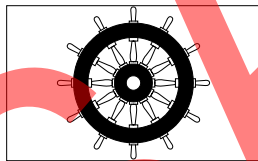
**Description** Single/Multi Bladed Rectangular Fire Damper - Type: "MFD"

**Specified Standard** IMO Res. MSC.61(67)-(FTP Code) Annex 1, Part 3 and  
IMO MSC/Circ.1120.  
IMO Res. MSC.307 (88) - (2010 FTP Code), Section 8.

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**DESIGN APPRAISAL DOCUMENT**

Date 9th May 2015	Quote this reference on all future communications MTES/SFS/TA/SA/WP21963111
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**APPROVAL DOCUMENTATION**

Warrington Fire Research Centre, Cheshire, United Kingdom, Fire Test Reports No. 122471, dated 15 April 2002, No. 143263, dated 21 December 2004, No. 143265 & 143453, both dated 22 December 2004 and No. 144277, dated 14 March 2005.

Wozair's Technical File, Document No. PD002/MED/TD01, Rev. 0 ("Type LFD, MFD Dampers"), dated 30 April 2002.

**CONDITIONS OF CERTIFICATION**

1. For use in conjunction with 'A-0', 'A-15', 'A-30' and A-60 class divisions with the ducting protected with insulation suitable for the rating of the division. The tables below shows the minimum total insulation lengths for deck and bulkhead applications, which may be interpolated for the intermediate sizes based on the internal cross-sectional area of the duct.

**2. For Deck Applications:**

2.1 Minimum total duct insulation lengths:

	100mm x 100mm (Single)	1200mm x 1200mm (Single)	2500mm x 1000mm (Mullion)
Deck	675mm	910mm	1580mm

2.2 Minimum size of duct opening: 100mm wide x 100mm high.

2.3 Maximum size of duct opening: 1200mm x 1200mm (single) and 2500mm x 1000 (mullion)

2.4 Suitable for use with Actuator Types: Frangible Bulb Thermal Trigger, SCHISCHEK type EX, BELIMO types BF and BLF, Solder Link Thermal Trigger and POWERTORK PT series.

**3. For Bulkhead applications:**

3.1 Minimum total duct insulation lengths:

	100mm x 100mm (Single)	300mm x 300mm (Single)	1200mm x 1200mm (Single)	
Bulkhead	675mm	910mm	1400mm	

3.2 Minimum size of duct opening: 100mm wide x 100mm high.

3.3 Maximum size of duct opening: 1200mm x 1200mm (single)

3.4 Suitable for use with Actuator Types: Powertork 'PT', Solder Link Thermal Trigger, Belimo BLF, Belimo BF, Schischek EX and Frangible Bulb Duplex Trigger.

1. 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.





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**PLACES OF PRODUCTION**

Wozair Limited  
5 & 6 Saracen Close  
Gillingham Business Park  
Gillingham  
Kent, ME8 0QN  
United Kingdom (UK)

Matromatic Handling Systems (M) Sdn. Bhd.  
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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**