

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND  
CERTIFICATE OF TYPE APPROVAL**

(EC Certificate of Type Examination-96/98/EC Directive Module B)

**Certificate Number: 164.112/1121/EWC MED0439TE**

Applicant:- Pyrotek Pty Ltd

Manufacturer:- Pyrotek Pty Ltd

Address:- 147-149 Magowar Road, Girraween  
2145 NSW, Australia

147-149 Magowar Road, Girraween 2145 NSW,  
Australia

This is to certify that the applicant has submitted details of a surface material with Low flame-spread characteristics and low smoke and toxic fume emissions (Item Number A.1/3.18a: decorative veneer), known and designated as:-

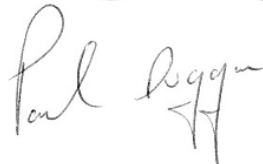
**"Quadzero™dBX"**

having the technical specification given in the schedule of equipment on this certificate which has been tested and complies with the recommended criteria given in the following methods, published by the International Maritime Organisation, and which are contained in the relevant parts of the International Code for Application of Fire Test Procedures (FTP Code) namely:-

- IMO Resolution MSC 307(88) Annex 1 Part 5 and Annex 2.
- IMO Resolution MSC 307(88) Annex 1 Part 2 and Annex 2.
- Smoke and Toxicity is satisfied by meeting the total heat release ( $Q_t$ ) and peak heat release ( $Q_p$ ) as stated in IMO Fire Test Procedures Code, Annex 2 Section 2.2.

This certificate is issued on behalf of the Maritime and Coastguard Agency (MCA). The system complies with the relevant international testing standards under which legislation (The Merchant Shipping Marine Equipment) Regulations 1999 and also the Marine Equipment Directive 2014/90/EU as amended, the certificate is issued.

This product has been assigned a U.S. Coast Guard Module B number 164.112/EC1121/EWC MED0439 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27<sup>th</sup>, 2004.



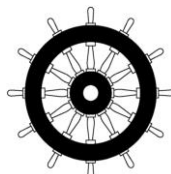
P Duggan  
Manager  
Warrington Certification  
Holmesfield Road  
Warrington WA1 2DS

Date of Issue: 20<sup>th</sup> January 2015

Date of amendment: 7<sup>th</sup> November 2016

This certificate is valid until: 19<sup>th</sup> January 2020

**This certificate is not valid for equipment, the design or manufacture of which, has been varied or modified from the specimens tested.**



## Certificate of Type Approval Schedule of Equipment

The applicant declared that the following comprises an accurate description of the system type to which this certificate applies.

General description		Glass cloth material adhered to a rubber type material
Product reference		<b>"Quadzero™dBX"</b>
Name of manufacturer		Pyrotek
Thickness		4.02mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area		8kg/m <sup>2</sup> (stated by sponsor)
Facing	Generic type	Aluminium glass cloth
	Product reference	<b>See Note 1 Below</b>
	Name of manufacturer	Pyrotek
	Thickness	<b>See Note 1 Below</b>
	Weight per unit area	<b>See Note 1 Below</b>
	Colour reference	"Silver"
	Flame retardant details	<b>See Note 2 Below</b>
Adhesive	Generic type	<b>See Note 1 Below</b>
	Product reference	<b>See Note 1 Below</b>
	Name of manufacturer	<b>See Note 1 Below</b>
	Colour reference	<b>See Note 1 Below</b>
	Application rate	<b>See Note 1 Below</b>
	Application method	<b>See Note 1 Below</b>
	Flame retardant details	<b>See Note 3 Below</b>
	Curing process	<b>See Note 1 Below</b>
Thermoplastic barrier	Generic type	<b>See Note 1 Below</b>
	Product reference	<b>"Quadzero™dBX"</b>
	Composition details	<b>See Note 1 Below</b>
	Name of manufacturer	<b>See Note 1 Below</b>
	Thickness	<b>See Note 1 Below</b>
	Weight per unit area	8kg/m <sup>2</sup>
	Colour reference	"Dark Grey"
	Flame retardant details	<b>See Note 3 Below</b>
Brief description of manufacturing process		<b>See Note 1 Below</b>

Note 1. The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 2. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

Note 3. The sponsor was unable to provide this information.

The under noted documents have been approved for compliance with the relevant requirements of International Conventions and European Union Legislation for the EC Type examination of Marine Equipment for use on Ships Registered in the European Economic Area.

### **Approved Documents - Test Reports**

- (1) WF 344504 (dated October 2014). Surface Flammability test to IMO Resolution MSC 307(88) Annex 1 Part 5 and Annex 2.

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Warrington Certification, Holmesfield Road, Warrington WA1 2DS

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