

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

(EC Certificate of Type Examination-2014/90/EU Directive Module B)

**Certificate Number: 1121/EWC MED0439TE**

Applicant:- Pyrotek Pty Ltd

Manufacturer:- Pyrotek CZ s.r.o

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

Dolni Lhota 203, Blansko, Ceska republic,  
67801

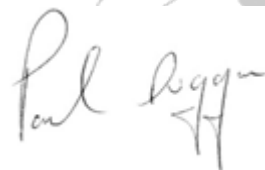
This is to certify that the applicant has submitted details of a surface material with Low flame-spread characteristics and low smoke and toxic fume emissions (Item Number MED3.18a: decorative veneer), known and designated as:-

**"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.

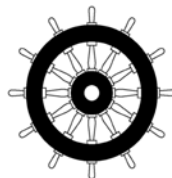
This certificate is issued on behalf of the Maritime and Coastguard Agency (MCA). The system complies with the relevant international testing standards under which legislation (The Merchant Shipping Marine Equipment) Regulations 1999 and also the Marine Equipment Directive 2014/90/EU as amended, the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



P Duggan  
Manager  
Warringtonfire  
Holmesfield Road  
Warrington WA1 2DS

Date of Issue: 20<sup>th</sup> January 2015  
Date of amendment: 7<sup>th</sup> November 2016  
Date of amendment: 30<sup>th</sup> January 2019  
Date of Amendment: 25<sup>th</sup> April 2019  
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		2.5mm to 4mm nominal
Weight per unit area		5kg/m <sup>2</sup> to 8kg/m <sup>2</sup> nominal
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"
Adhesive	Flame retardant details	<b>See Note 2 Below</b>
	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>
Thermoplastic barrier	Flame retardant details	<b>See Note 3 Below</b>
	Curing process	<b>See Note 1 Below</b>
	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		5kg/m <sup>2</sup> to 8kg/m <sup>2</sup> nominal
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.
- (2) WF 399512 (Issue 2, dated 13<sup>th</sup> June 2018). Surface Flammability test to IMO Resolution MSC 307(88) Annex 1 Part 5.
- (3) WF 377177 (dated 6<sup>th</sup> December 2016). Surface Flammability test to IMO Resolution MSC 307(88) Annex 1 Part 5.
- (4) WF 381223 (dated 17<sup>th</sup> March 2017). Surface Flammability test to IMO Resolution MSC 307(88) Annex 1 Part 5.

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.

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