# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MEDB0000750**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

## This is to certify:

**That the Surface materials and floor coverings with low flame-spread characteristics: decorative veneers**

with type designation(s)
**Quadzero NL**

Issued to
**Pyrotek Pty Ltd**
**Girraween, NSW, Australia**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
**item No. MED/3.18a. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code**

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-03-16**.

Issued at **Høvik** on **2021-03-17**

DNV local station:
**Australia FIS/CMC**

Approval Engineer:
**Marcin Tobiasz**

Notified Body
No.: **0575**

for **DNV AS**

**Roald Vårheim**
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

## Product description
"Quadzero NL"
is a foil faced mass-loaded vinyl composite, consisting of:
- Aluminium foil,
- Quadzero NL insulation barrier layer,
- Backing fabric.

Max. thickness: 4 mm
Weight per unit area: 2 kg/m$^2$ - 8 kg/m$^2$

For further details see Type Examination documentation below.

## Application/Limitation
Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use as decorative veneers on non-combustible substrate with a greater thickness than 25 mm.

Approved colour: dark grey
Max. organic content: 30 %

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2.

Each product is to be supplied with its manual for installation and maintenance.

## Type Examination documentation
Test Report No. 437219 dated 12 February 2021 from Exova Warringtonfire, Warringtonfire, UK. (date of initial report No. 381212: 17 March 2017).

Test Report No. 437218 dated 12 February 2021 from Exova Warringtonfire, Warringtonfire, UK. (date of initial report No. 377172: 6 December 2016).

## Tests carried out
Tested according to IMO 2010 FTP Code Part 5 and Annex 2 item 2.2 and 2.3.

## Marking of product
The product or packing is to be marked with name and address of manufacturer, type designation, MED Mark of Conformity and USCG approval number if applicable (see first page).