

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Non-combustible materials

with type designation(s)
LPI aluminium honeycomb core

Issued to
Luxpanel International GmbH
Bitburg, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.13. SOLAS 74 as amended, Regulation II-2/3 II-2/5, II-2/9 & X/3, 2000 HSC
Code 7 and IMO 2010 FTP Code

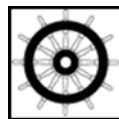
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-02-05**.

Issued at **Hamburg** on **2018-02-06**

DNV GL local station:
Essen

Approval Engineer:
John Alan Walton



Notified Body
No.: **0098**



for **DNV GL SE**
Digitally Signed By: Dudszus, Sven
Location: DNVGL Hamburg

Sven Dudszus
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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 GL SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-007907-1**
Certificate No: **MEDB00003U9**

Product description

"LPI Aluminium Honeycomb Core"

consists of aluminium sheets (3003 H19, 0.07mm thick) connected with strips of the approved dry adhesive (Luxpanel Wabenkleber). Application rate of the adhesive 1.3 g/m² surface area weight. Density of expanded honeycomb 42.6 kg/m³.

Organic content is 0.7%.

Application/Limitation

Approved for use as a non-combustible material with surface layer of low flame spread characteristics, not generating excessive quantities of smoke nor toxic products in fire.

The product may be used as an integrated part of approved fire resisting divisions only when tested as such.

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 annex 1, Part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

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

Type Examination documentation

Test Report No. 8115395634-10, APS4-Hau/Wa dated 31.01.2018 issued by the DMT Test Laboratory for Fire Protection, Dortmund, Germany

Tests carried out

The aluminium honeycomb core has been tested according to IMO 2010 FTP Code, Annex 1, Part 1

Marking of product

The product or packing is to be marked with name and address of the manufacturer, type designation, Mark of Conformity and USCG approval number. (See Page 1).