

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

with type designation(s)
AG Type Aluminum Tape

Issued to

Jiaxing Nanhu District Huanyu Adhesive Factory
Jiaxing City, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397,**

**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**

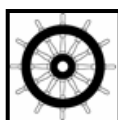
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-01.**

Issued at **Hamburg** on **2020-03-02**

DNV GL local station:
Shanghai

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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, and amended by Decision No 1/2018 dated February 18th, 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **344.1-009790-1**
Certificate No: **MEDB00005WW**

Product description

Consisting of 0.17mm thick aluminium foil coated with HY type flame retardant white glue adhesive, with 90-95 g/m². Specimen has been tested on a 1 mm steel plate.

Adhesive:

HY type flame retardant white glue, Manufactured by JIANGYIN BOND TAPE TECHNOLOGY CORPORATION

Max. applied thickness: 0.17mm

Density: 100 g/m²

Maximum organic content: 25%

Approved colour: Silver

For further details see Type Examination documentation below.

Applications/Limitations

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

Approved for use as floor covering on any low flame-spread floor covering, steel or non-combustible material.

The product satisfies the requirement for maximum calorific value (ref. SOLAS Chapter II-2, Reg 5.3.2.2) without further testing.

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 Annex1 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 reports no. FT19350 dated 2019-12-11 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO 2010 FTP Code, Annex1, Part 5 and in compliance with Annex 2 item 2.2 and 2.3.

Marking of product

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