

MRA Mutual Recognition Agreement on Marine Equipment EC-US

EC TYPE-EXAMINATION CERTIFICATE (Module B)

Application Of:

Council Directive 96/98/EC of 20 December 1996 On Marine Equipment (MED) as modified by Commission Directives 98/85/EC, 2001/53/EC and **as amended by Commission Directive 2002/75/EC and 2008/67/EC last amendment by DIRECTIVE 2009/26/EC of 6th April 2009**

Certificate N° 0987/MED-B/300

This Certificate consists of 2 pages

This is to certify that the product
ALPILAM AFF (Thick: 1,0 mm)

MED annex A.1 item: A.1/3.18 (a)

Product type:

SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS: DECORATIVE VENEERS FOR SURFACE LININGS

Supplied / Manufactured by:

ALPI S.p.A. - DIV. LINTECO

Provinciale Faentina, 38 - 47015 MODIGLIANA (FC) - ITALY

Complies with the requirements in the following Regulations/Standards:

Annex B, Module B in the above Directive and as applicable:

- SOLAS 74 as amended Reg II-2/3.8, II-2/34.3, II-2/34.7, II-2/49.1, II-2/49.2, Reg X/3 (HSC), Reg II-2/3.29, IMO Resolution MSC 97 (73) 2000 HSC Code 7.4.3.4, 7.4.3.5, 7.4.3.6
- IMO Res A.653 (16), IMO Res MSC. 61(67), Annex 1 parts 2 - 5 and ISO 1716 (1973) and where applicable Annex 2.2.2 for material not generating excessive quantities of smoke and toxic products in fire
- FTP Code MSC 61 (67) Annex 1, IMO MSC/Circ 916 as Integrated by IMO MSC/Circ 1008 and where applicable IMO MSC/Circ 1004

This product has been assigned a U.S. Coast Guard Module B number N° 164.112/EC0987/MED300 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 for Marine Equipment" signed February 27th, 2004.

Further details of the product and conditions for certification are given overleaf



The Manufacturer is allowed to affix the Mark of conformity according to the Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the Module D or E or F or Annex B in the same Directive is fully complied with.

Prato, 07/09/2010

The Certification Manager

Dr. Massimo Borsini

The Technical Director

Dr. Luca Ermini

This certificate is valid until 06/09/2015

This Certificate is issued under the Authority of Ministero delle Infrastrutture e del Trasporti Comando Generale del Corpo delle Capitanerie di Porto according to Decreto Ministeriale 26 October 2004 N° 825 and Decreto Ministeriale 1 February 2008 N° 98/2008.

Product description:

Appearance: decorative panels having a dark wood decorated side.

Technical data of the material (*):

Composition: 20% Wood – 48% Paper – 22% Phenolic resin – 10% Melaminic resin		
Total thickness		1 mm
Total weight of the finished material after fabrication procedure		1300 g/m ²
Material	Composition (%)	Weight (g/m ²)
1° External layer / Melaminic overlay (Thickness 0,12 mm)	Cellulose sheet impregnated with melaminic resin	120
2° layer / Veneer made of multilayer wood of either Ayous, Poplar, Lime (Thickness 0,55 mm)	Wood leaf and urea – formaldehyde condensation adhesive	350
3° layer / Melaminic paper (Thickness 0,1 mm)	Paper impregnated with melaminic resin	95
4°,5° layer / Self-extinguishing kraft paper (Thickness 0,3 mm)	Kraft paper impregnated with phenolic resin containing a flame retardant	250
6°,7° layer / Self-extinguishing kraft paper (Thickness 0,3 mm)	Kraft paper impregnated with phenolic resin containing a flame retardant	250

Fabrication procedure for the assembling of the components

Stacking under high pressure and temperature with hot – cold cycle

Adhesive used for glueing to the non-combustible substrate (Thick 0,2 mm)	Adhesive based on water dispersed polyvinylacetate	1,09 kg/l (Density)
The laminate described above is applied by the glue in ratio of 200 g/m ² on both the substrates reported below:		
Non – combustible substrate (Thickness 10 mm)	Non-combustible silicate – based slab	870 kg/m ³ (Density)
Non – combustible substrate (Thickness 1 mm)	Aluminium plate	2700 kg/m ³ (Density)

Side in view: wood decorated surface.

The material has been sampled by the Sponsor on date 26/07/2010 of production batch n° F45441P (Poplar), F45442P (Ayous) e F45443P (Lime), in the plant of Via Provinciale Faentina, 38 - MODIGLIANA (FC).

Applications/Limitations

 The material fulfils the requirements of **FTP Code MSC 61(67) Annex 1, Part 2 and 5.**

 Calorific value to be less than 45 MJ/m² when required.

The compliance is valid for:

- All colours
- Ayous, Poplar and Lime multilayer wood veneer
- A total thickness of the finished material not exceeding the range of 1,0 mm.
- A total weight of the material not exceeding the weight of 1300 g/m².

This provided that no variation is effected on any of the components listed above (i.e. all the data reported above remain the same).

Moreover, according to MSC/Circ. 1004, the compliance is valid for:

1) Non-combustible non-metallic substrates having:

 > density not less than $0.75 \times (\text{Density of the non – combustible support used}) = 0.75 \times 870 \text{ kg/m}^3 = 653 \text{ kg/m}^3$
 or

 > thickness not lower than 10 mm for any non-combustible support non-metallic support having density > 400 kg/m³.

2) Metallic substrates, provided their thickness is not less than 0.75 mm (75% of 1.0 mm)
Type approval documentation

Product	Test Report	Issued by
ALPILAM AFF (Thick. 1,0 mm)	<ul style="list-style-type: none"> • 1187.4IM0080/10 - Smoke and Toxicity test in accordance to FTP Code MSC 61 (67) Annex 1 part 2, IMO MSC/Circ 916 as Integrated by IMO MSC/Circ 1008 • 1187.4IM0090/10 - Measure of gross calorific value in accordance to FTP Code MSC 61 (67) Annex 1 part 5 ISO 1716 (1973) • 1187.4IM0100/10 - Surface flammability test in accordance to FTP Code MSC 61 (67) Annex 1 part 5 Imo Res. A. 653 (16), and IMO MSC/Circ 1004 	LAPI Laboratorio Prevenzione Incendi SpA - Italy - Notified Testing Body N° 0987 EN 17025 Accredited Laboratory IMO Testing Laboratory FP 039



===== End of Document =====