



UK Approved Body Authorised
by the MCA

Certificate number: 74059/A0 UK

File number: PPE 50679/01

Item number: UK/1.7

*This certificate is not valid when
presented without the full attached
schedule composed of 7 sections*

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:

I.C. BRINDLE & CO. LTD

Poole - UNITED KINGDOM

for the type of product

THERMAL PROTECTIVE AIDS

Thermal Protective Aids "AV-3" and "AV-3a"

Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/22, III/32 and III/34
IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93), MSC.425(98), MSC.459(101) and MSC.485(103) I, II
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93), MSC.427(98), MSC.472(101) and MSC.488(103)
IMO MSC/Circ.1046 and IMO MSC.1/Circ.1628

The attached (schedule of approval) forms part of this certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 01 Feb 2028

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)

At BV LONDON, on 01 Feb 2023,

Spencer Yule

This certificate was created electronically and is valid without signature



Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

Note 2: Should the specified Regulations or standards be amended during the period of validity of this certificate, the product(s) is/ are to be re-approved prior to it/ they being placed on the UK market and on board vessels to which the amended regulations of standards apply.

Note 3: "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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."

Note 4: In case limitations of use apply, these should be indicated in the Annex.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

"AV-3" and "AV-3a" are Thermal Protective Aids for Survival Craft, designed to reduce the loss of vital body heat and the risk of hypothermia during emergency situations at sea.

They are designed to accommodate a person wearing a lifejacket.

"AVMAR T.P.A. AV-3" is of bag type.

"AVMAR T.P.A. AV-3a" has two arms incorporated into the design.

Both models are fitted with a zipper.

Both models are packed in a vacuum sealed clear plastic bag, which contains clear instructions.

2. DOCUMENTS AND DRAWINGS

2.1 Drawings

Description	Drawing Number	Revision	Date
TPA AV-3A (with arms)	TPA/1/3A	5	11/06/2018
TPA AV-3 (without arms)	TPA/2/3	5	11/06/2018

2.2 Technical File

Description	Revision	Date
Thermal Protective Aid's AV3 (without arms) - AV-3a (with arms)	5	11/06/2018
TPA Fabric: "Rolamit Standard 70 (Quality PE yellow or green)", two layers polyethylene film, manufactured by Pavag Follen A.G., Switzerland	Test report 9451/HPM005/ A249/LP	14/03/2002

2.3 Manual for installation, use and maintenance

Description	Drawing Number	Revision	Date
Donning Instructions TPA AV-3a (with arms)	TPA/2/3/DN	11	11/01/2023
Donning Instructions TPA AV-3 (without arms)	TPA/2/3/DN	11	11/01/2023

3. TEST REPORTS

DATE		TEST
2002-05-27	AER/FTL/711	"evaluation of thermal protective aid to MSC 81(70)" Type tests performed at Fleetwood Testing Laboratory, U.K,
2002-06-12	AER/FTL/711a	"Part evaluation of thermal protective aid to MSC 81(70)"
2002-03-14	9451/HPM005/A249/LP	tested against Thermal Conductivity, in accordance with BS 4745 :1990 (ISO 5085-1 :1989), by BTTG, England,

4. APPLICATION / LIMITATION

- As per requirements stated on front page of this certificate.
- Each Thermal Protective Aids will be supplied with its instructions for use, inspections and on-board maintenance complying with requirements stated on the front page of this certificate.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.

The manufacturer shall institute a quality control procedure to ensure that Thermal Protective Aids are produced to the same standard as the approved prototype and shall keep records of any production tests carried out.

Thermal Protective Aids intended to be fitted onboard a United Kingdom ship shall be delivered with a United Kingdom Declaration of Conformity.

The Thermal Protective Aid shall be supplied with its Manual(s) for Installation, use & maintenance.

5.2 - For information concerning the production phase modules, **I.C. BRINDLE & CO. LTD** has declared the following manufacturing site(s):

I.C. BRINDLE & CO. LTD
Unit 4, The Glenmore Centre
Fancy Road
Poole
BH12 4FB

United Kingdom

6. MARKING OF PRODUCT

The Thermal Protective Aids shall bear the following marks:

- Manufacturer name or logo
- Type designation
- Date of manufacture (last two digits of year mark affixed)
- Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part3:

In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS

It is **I.C. BRINDLE & CO. LTD**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****