DNV·GL

Certificate No:
MEDB00000E1

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Immersion suits and anti-exposure suits designed to be worn in conjunction WITHOUT a lifejacket: Immersion suit with inherent insulation

with type designation(s)
E-307

Issued to
Hansen Protection AS
MOSS, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.6b and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code and 2000 HSC Code 8

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

Høvik, 2015-12-07
for **DNV GL AS**

This Certificate is valid until
2017-01-09

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Sandefjord

Tessa Biever
Surveyor

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Job Id: **344.1-001957-9**
Certificate No: **MEDB00000E1**

Product description

E-307 is an insulated immersion suit designed to be worn without a lifejacket. The immersion suit is constructed with soft buoyancy foam and fitted with lifting strap, buddy line, light, whistle and fixed fingered gloves.

Main fabric:	TP-N2008 - HT Nylon 224 dtex / FR Ether type TPU, Orange - colour	by Jasplendid Co., Ltd.
Buoyancy foam:	Cellu-cushion float	by Sealed Air Svenska AB
Zipper:	Tizip MasterSeal 10	by Titex Vertriebs - GmbH

Application/Limitation

- Position indicating light and retro-reflective materials shall be approved in accordance with the Marine Equipment Directive and be "wheelmarked".
- The design assessment is based on IMO Res. MSC 48(66) as amended by IMO Res. MSC 207(81) and IMO Res. MSC 218(82).
- Production and installation testing shall be carried out according to IMO Res. MSC. 81(70), part 2.

Type Examination documentation

Basis for approval:

The following documentation is basis for the DNV GL approval:

- Hansen Protection Specification for E-307, issue 56 dated 2015-05-18
- ErgoPro, test report no. 03-2015, Rev. 1, dated 2015-12-06
- Drawings 85202 E-307 (front and back), revision 2 dated 2015-11-02

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC 81(70) part 1, including IMO Res. MSC 200(81), IMO Res. MSC 226(82) and IMO Res. MSC 323(89).

Marking of product

The product is to be indelibly marked with name of manufacturer, type designation, dimensions and date of manufacture. The marking shall comply with the LSA Code (IMO Res. MSC 48(66)), item 1.2.2.9.

Mark of Conformity

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

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.