

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. 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 WITHOUT a lifejacket:
Anti exposure suits**

with type designation(s)
E-300-2

Issued to

**Hansen Protection AS
MOSS, Norway**

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

Regulation **(EU) 2015/559,**

**Annex A.1, item No. A.1/1.6c 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**

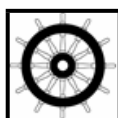
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-12-04**.

Issued at **Høvik** on **2016-12-05**

DNV GL local station:
Sandefjord

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Job Id:
Certificate No: **MEDB00001NZ**

Product description

E-300-2 anti-exposure suit is designed to be worn without a lifejacket.

The anti-exposure suit is constructed with soft buoyancy foam and fitted with lifting strap, buddy line, light, whistle and removable fingered gloves.

Main fabric:	2678 FR/OR PU 210 Denier 57" wide Int. Orange	by Uretek Inc.
Buoyancy foam:	S11.70	by Alcan Airex AG
Zipper:	G2 SHF PU35 SDO-CR U25	by Dynat 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).
- Production and installation testing shall be carried out according to IMO Res. MSC.81(70), part 2.

Type Examination documentation

The following documentation is basis for the DNV GL approval:

Helly Hansen Specification for E-300-2, issue 35	1999-05-07
Letter from NMD	1998-08-14
SINTEF test report STF23 F96028, "Thermal protective properties of HH Insulated immersion suit E-307"	1995-05-24
SINTEF test report from strength testing	1999-05-10
SINTEF test report P.nr. 804023.77, strength test	2011-11-29
SINTEF test certificate on Helly Hansen E-307	1997-05-10
SINTEF testreport F21469 donning-cold test	2011-12-07
Uretek, Inc. testreport, Product 2678	1997-09-17
VTT Kjemisk Teknikk, test report no. KET3230/97	

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 and address of the 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.