

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:
Immersion suit with inherent insulation**

with type designation(s)
SeaAir 1

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.1/1.6b 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**

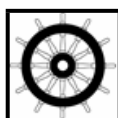
Further details of the equipment and conditions for certification are given overleaf.

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**

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Vidar Dolonen
Head of Notified Body



Job Id:
Certificate No: **MEDB00001NV**

Product description

SeaAir1 is an insulated immersion suit designed to be worn without a lifejacket.

The immersion suit is equipped with an inflatable collar for comfort purposes and may be equipped with a removable self-righting unit, helicopter underwater breathing system and HPL emergency locator beacon. The colour of the suit is orange/black or yellow/black.

Main fabric:	Uretek 4530 M	by Uretek Inc.
Buoyancy foam:	Airex S32	by Alcan Airex AG
Zipper:	TIZIP Super Seal	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

The following documentation is basis for the DNV GL approval:

Technical Documentation Hansen Protection File SeaAir 1, version 1-1 (2007-06-29)	2007-07-16
Reports from prototype testing in Trondheim, Norway witnessed by DNV	2007-01-23~25, 2007-03-27~29, 2007-05-04, 2007-06-01, 2007-06-05
Test report from Sintef, project no 804021.68	2007-06-28
Test report from Sintef, project no 60F069	2011-09-23

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.