

# 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 Norway.

**This is to certify:**

**That the Sound reception system**

with type designation(s)  
**VSS-V2**

Issued to  
**ZENITEL NORWAY AS AVD HORTEN  
HORTEN, Norway**

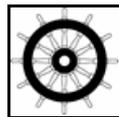
is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2019/1397,**  
**item No. MED/4.58. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.86(70), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87)**

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

This Certificate is valid until **2025-06-15.**

Issued at **Høvik** on **2020-06-16**

DNV GL local station:  
**Norway Fleet in Service, East-South**



for **DNV GL AS**

Approval Engineer:  
**Steinar Kristensen**

Notified Body  
No.: **0575**

**Roald Vårheim**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

The VSS-V2 Sound Reception System consists of the following modules:

Module	Type	Item no.	Installation
VSS Master Panel -V2	VSS-MP	102 100 1100	Protected
VSS Slave Panel -V2	VSS-SP	102 100 1200	Protected
VSS Microphone Unit -V2	VSS-MU	102 100 2100	Exposed

## Application/Limitation

- VSS-V2 is to be installed and tested according to the manufacturers Installation & User Manual
- VSS-V2 does not issue alerts, hence testing according to IEC 62923-1 and IEC 62923-2 is deemed as not being applicable.
- VSS-V2 Sound Reception System is found to comply with requirements for Sound Reception Systems for the additional class notations NAUT(OC) and NAUT (AW) as specified in the DNV GL Rules Pt.6, Ch.3, Sec.3 (July 2019).

## Type Examination documentation

DNV GL No	Document Id	Rev.	Description
5	E12067.00	00	Report: Nemko, EMC and Environmental test report for VSS-V2 Sound Reception System
3	SRS2012-VSS DNV Type Approval	V.1.0	Report: Zenitel, VSS-V2 Performance test report
2	A100K11209	v.1.0	Manual: Zenitel, Sound Reception System VSS-V2 Installation & User Manual

## Tests carried out

- EMC and Environmental tests IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Performance testing, sound reception systems ISO 14859 (2012) and  
DNV GL TA programme MED/4.58
- Presentation of navigation information IEC 62288 (2014)

## Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.