

Certificate No:  
**MED-B-9492**  
Item No:  
**A.1/4.58**  
Job Id:  
**344.1-004483-1**

## EC TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL under the authority of the Government of the Kingdom of Norway.

### This is to certify:

**That the Sound reception system**

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

Issued to

**Zenitel Norway AS**  
**HORTEN, Norway**

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

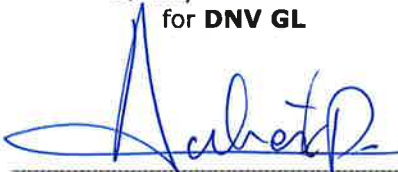
**Annex A.1, item No. A.1/4.58 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation V/18, V/19 & X/3, IMO Res. A.694(17), 2000 HSC Code, IMO Res. MSC.86(70) & 191(79)**

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

**Høvik, 2014-12-11**  
for **DNV GL**



This Certificate is valid until  
**2019-12-11**

*for*   
**Marianne Strand Valderhaug**  
Head of Department

Notified Body No.: **0575**

DNV GL local office:  
**Sandefjord**

  
**Steinar Kristensen**  
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

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## Product description

Sound Reception System

The System consists of the following components:

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 shall be installed and tested according to the manufacturers Installation & User Manual

## Type Examination documentation

Doc Id.	Rev.	Title
E12067.00	00	Report: Nemko, EMC report incl Environmental tests
SRS2012-VSS DNV	V.1.0	Report: Zenitel, VSS-V2 Performance test report
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)
- Performance testing, sound reception systems DNV Rules Pt.6 Ch.8 (July 2011)
- Presentation of navigation information IEC 62288 (2014)

## Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

## 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 Certificate of Conformity.

