



**TYPE APPROVAL CERTIFICATE**  
No. ELE117918XG/001

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

|                             |  |
|-----------------------------|--|
| <i>Description</i>          | <b>SOUND RECEPTION SYSTEM</b>  |
| <i>Type</i>                 | <b>VSS-V2 Sound Reception System</b>   |
| <i>Applicant</i>            | <b>ZENITEL NORWAY AS<br/>BROMSVEIEN 17<br/>N-3194 HORTEN<br/>NORWAY</b>                                    |
| <i>Manufacturer</i>         | <b>ZENITEL NORWAY AS</b>   |
| <i>Place of manufacture</i> | <b>BROMSVEIEN 17<br/>N-3194 HORTEN<br/>NORWAY</b>  |
| <i>Reference standards</i>  | <b>IMO Res. MSC 86(70) Annex 1 Recommendation on<br/>Performance Standards for Sound Reception Systems</b> |

Issued in **HAMBURG** on **June 29, 2018**. This Certificate is valid until **June 28, 2023**

RINA Services S.p.A.  
**Giuseppe Russo**

This certificate consists of this page and 1 enclosure





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**Enclosure - Page 1 of 1**  
**VSS-V2 Sound Reception System**

**Product Description:**

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

| Module                   | Type   | Item no.   | Installation |
|--------------------------|--------|------------|--------------|
| VSS Master Panel - V2    | VSS-MP | 1021001100 | Protected    |
| VSS Slave Panel - V2     | VSS-SP | 1021001200 | Protected    |
| VSS Microphone Unit - V2 | VSS-MU | 1021002100 | Exposed      |

**Application / Limitation:**

VSS-V2 shall be installed and tested according to the manufacturer's Installation & User Manual.

**Performed Tests:**

- Performance testing of the sound reception system: ISO 14859 (2012)
- Presentation of navigation information: IEC 62288 (2008)
- EMC and environmental testing: IEC 60945 (2002)
- Performance testing. sound reception system: DNV Rules Pt 6, Ch 8, (July 2011)

**Documentation:**

| Documentation No.             | Description   |
|-------------------------------|---|
| SRS2012-VSS DNV Type Approval | Report: Zenitel, VSS-V2 Performance Test Report                           |
| A100K11209                    | Manual: Zenitel, Sound Reception System VSS-V2 Installation & User Manual |
| E12067.00                     | Report: Nemko, EMC Report including Environmental Tests                   |

**Marking of Product:**

The manufacturer and type designation is to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with the serial number, safe distance to magnetic compass and power supply voltage.

*The certificate supersedes previous RINA certificate No. ELE138412XG/001.*

**HAMBURG June 29, 2018**

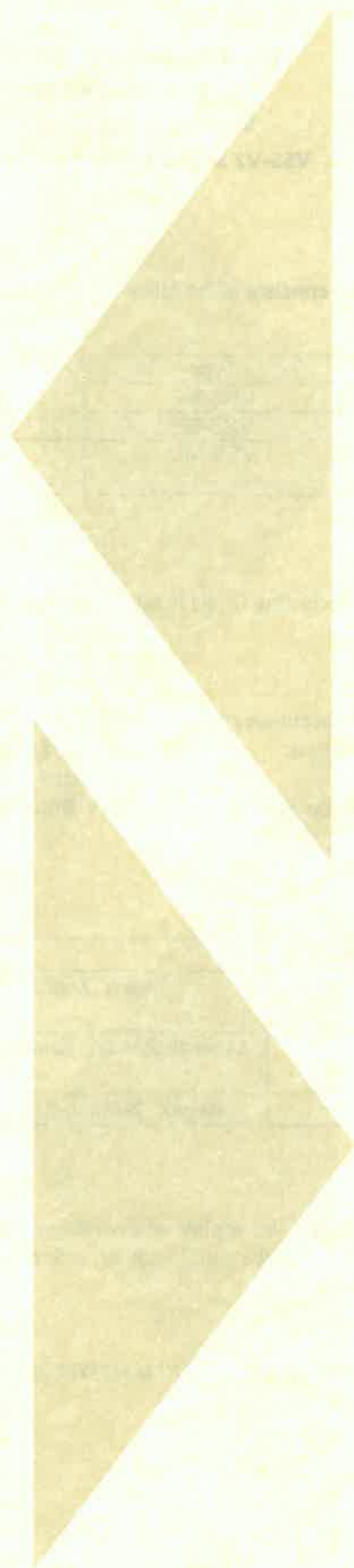
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