

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008NU

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 AS under the authority of the Government of Norway.

This is to certify:

that the **Public Address and General Alarm Systems (PAGA):- Speakers**

with type designation(s)

BP-361 ST-MED, BP-361 T-MED, BPF-660 IPT-MED, BPF-660T-MED, BS-560T-MED, VES-561-54T-MED, VES-561T-MED

issued to

**DNH A/S Den Norske Høytalerfabrikk A/S
KRAGERØ, Norway**

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

Regulation **(EU) 2023/1667**,

item No. MED/1.44b. SOLAS 1974 as amended, Regulation II-2/12,21,22, III/4, 6 & X/3, LSA Code VII, HSC Code 4,8, IMO MSC.1/Circ. 808, 1369/Add.1

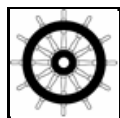
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-02-05**.

Issued at **Høvik** on **2024-02-06**

DNV local unit:
East & South Norway CMC

Approval Engineer:
Steinar Kristensen



Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body



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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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 BP-361 ST-MED, BP-361 T-MED, BPF-660 IPT-MED, BPF-660T-MED, BS-560T-MED, VES-561-54T-MED and VES-561T-MED are ceiling speakers intended for sounding of Public Address or General Emergency Alarm.

Unit	Description	Rated voltage (V)	Max power (W)	Location
BP-361 ST-MED	Ceiling speaker with screw mounting, Steel dust box	70/100	6	Protected
BP-361 T-MED	Ceiling speaker with screw mounting	70/100	6	Protected
BPF-660 IPT-MED	Ceiling speaker with dust box, IP 54	70/100	6	Protected
BPF-660T-MED	Ceiling speaker with dust box	70/100	6	Protected
BS-560T-MED	Ceiling speaker	70/100	6	Protected
VES-561-54T-MED	Ceiling speaker	70/100	6	Protected
VES-561T-MED	Ceiling speaker	70/100	6	Protected

Application/Limitation

The speakers are to be installed according to instructions in technical documentation.

Type Examination documentation

DNV No	Document ID	Rev	Description
24	BP-361T-MED	2024-01-26	Manual: DNH, Manual and specifications for BP-361T-MED
23	BP-361ST-MED	2024-01-11	Manual: DNH, Manual and specifications for BP-361ST-MED
22	B-560 T-MED	2024-01-11	Manual: DNH, Manual and specifications for B-560 T-MED
21	VES-561-54T-MED	2024-01-26	Manual: DNH, Manual and specifications for VES-561-54T-MED
20	BPF-660T-MED	2024-01-11	Manual: DNH, Manual and specifications for BPF-660T-MED
19	BPF-660IPT-MED	2024-01-11	Manual: DNH, Manual and specifications for BPF-660IPT-MED
17	E19215.00	00	Report: Nemko, Environmental test report for BP-361T and BP 361ST
12	200112102/C3/10	2001-07-13	Report: Nemko, Damp heat cyclic test report for BS-560(T) loudspeaker
9	200112105/10/M1	2001-07-05	Report: Nemko, Vibration test report for BS-560(T) loudspeaker
8	200112102/C2/10	2001-07-13	Report: Nemko, Dry heat test report for BS-560(T) loudspeaker
7	200112102/C1/10	2001-07-13	Report: Nemko, Low temperature test report for BS-560(T) loudspeaker
6	13356-3S	0	Report: Labtest Certification Inc, Environmental test report for BPF-660T loudspeaker
2	33/BA/20	2020-01-08	Report: CNBOP-PIB, Environmental test report for BPF-660-54T and MPF-660-54T 8W

Tests carried out

- Environmental testing: IEC 60945 (2002) incl. Corr.1 (2008)
- Performance testing: EN 50695 (2021)

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.

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:
MEDD00002FV

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 AS under the authority of the Government of Norway.

This is to certify:

That the Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to

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KRAGERØ, Norway

is found to comply with the applicable requirements.

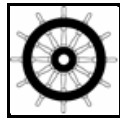
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2023/1667.

This Certificate is valid until **2029-02-08**.

Issued at **Høvik** on **2024-02-09**

DNV local unit:
East & South Norway CMC

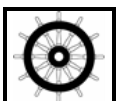
Approval Engineer:
Steinar Kristensen



Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body



0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed



The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein. This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.



APPENDIX

Item no. MED/1.44b Public Address and General Alarm Systems (PAGA):- Speakers

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
DSP-15 T-MED, DSP-15-54 T-MED, DST-100-MED, HP-10 T-MED, HP-10-54 T-MED, HP-15 T-MED, HP-20 T-MED, HP30 T-MED, HP-6 CT-MED, HPS-6 CT-MED ¹	MEDB00008NW	2029-02-07	0575	N/A
BA-56 EExeNT-MED, DSP-15 EExmN(M)T(MF)-MED, DSP15 EExmN(M)LT(MF) ¹	MEDB00008NV	2029-02-05	0575	N/A
BP-361 ST-MED, BP-361 T-MED, BPF-660 IPT-MED, BPF-660T-MED, BS-560T-MED, VES-561-54T-MED, VES-561T-MED ¹	MEDB00008NU	2029-02-05	0575	N/A
CAR-6T-MED, CAS-15-54T-MED, CP-6 T-MED, CP-66 T-MED, MC-50T-MED, MH-30T-MED, SAFE-10P-54T-MED, SAFE-10PT-MED, SAFE-15 T-MED, SAFE-561 IPT-MED, SAFE-561-54T-MED ¹	MEDB00008NT	2029-02-05	0575	N/A

Places of production

1.DNH A/S Den Norske Høytalerfabrikk A/S, Gruveveien 2-4, KRAGERØ, Norway