

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Speakers

with type designation(s)
DB20C, DB10, DB4B, DB16

Manufactured by
Cooper MEDC Ltd.
SUTTON in ASHFIELD, United Kingdom

is found to comply with
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results

Application :

See page 2.

This Certificate is valid until **2021-01-20**.

Issued at **Høvik** on **2016-01-21**

DNV GL local station: **Manchester**

Approval Engineer: **Frederik Tore Elter**

for **DNV GL**

Jan Tore Grimsrud
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.

Product description

Cooper Industries MEDC Loudspeakers.

Type designation	Type	Location
DB20C	Ceiling Loudspeaker	Exposed
DB10	Loudspeaker	Exposed
DB4B	Loudspeaker	Exposed
DB16	Loudspeaker	Exposed

Application/Limitation

Loudspeakers are to be installed according to manufacturer's specifications.

Any Ex-equipment (equipment to be used in areas with explosive atmosphere) listed in this certificate are subject to separate Ex- approvals.

Type Examination documentation

DNV GL No	Title	Drawing No
29	Manual: Technical Manual for the Speaker - DB20 / DB20C	TM208
28	Manual: Technical Manual for the Loudspeaker – DB10	TM231
27	Manual: Technical Manual for the Loudspeaker - DB4B	PXTM252
26	Report: Axis test laboratories, IEC 60945 test report for Cooper MEDC DB16	AXTF14010-11
25	Manual: Technical Manual for the Speaker – DB16	PXTM164
16	Report: Axis test laboratories, IEC 60945 test report for DB20C Ceiling Loudspeaker	AXTF14010-06
15	Report: Axis test laboratories, IEC 60945 test report for DB10 Loudspeaker	AXTF14010-07
14	Report: Axis test laboratories, IEC 60945 test report for DB4B Loudspeaker	AXTF14010-08

Tests carried out

- Environmental testing, IEC 60945 (2002)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, power consumption and supply voltage.

Certificate Retention Survey

A retention survey is to be performed at least once every second year, and again upon renewal of this certificate. The scope of the retention/ renewal survey is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations have been made to the product design or its components and/or materials without appraisal by the Society.