

TH-100 black-EN54

- high sound pressure level
- weather-proof
- stainless steel mounting V5A

EN54

CE
16

EN 54-24:2008
Ref. Nr.: 01T-15
ID-Code: SAA-TH01
1438-CPR-1263

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CE-Symbol gemäß Richtlinie 93/68EWG

The boundary horn speaker TH-100-EN54 has been developed for areas with extremely high ambient noise and is suitable for indoor and outdoor applications, such as tunnels. It is built to withstand corrosive atmospheric contaminants, high moisture levels and temperature extremes. The horn provides an enormous sound pressure level, a balanced frequency response, and a very low distortion.

The TH-100-EN54 with a flame-retardant plastic housing (UL 94 V-0) in RAL 9005 and IP 65 protection is also equipped with a ceramic block and thermal fuse. The high-quality 100W horn driver offers a high-performance CCAR voice coil. A simple and stable cable gland is made possible by 2 x PG13.5.

Sturdy installation by rust-free V5A stainless steel brackets and screws (1.4401 according to ISO 3506 / EN 10088-3; AISI 316).

There are two mounting solutions to choose from: the standard TH-100-WH mount with 4 individual mounting brackets and the premium TH-100-PH mount, which allows the horn to be mounted by only one person. **The brackets are not included in the delivery**.

This horn speaker provides intelligible voice notifications over a great distance, resulting in a lower number of required loudspeakers. The product is a certified voice alarm speaker according to EN54-24 and there is no other equalizer needed to meet the frequency response requirements according to EN54-24.

Product	TH-100 black-EN54
Article No	20205416

Acoustics

Power	100/50/25W
Impedance (100V)	100/200/400 ohm
Frequency Range	280 - 9.000 Hz
Frequency Response	250 - 10.000 Hz
SPL 1W/1m, peak	119,0 dB
SPL 1W/4m, peak	107,0 dB
SPL Pmax/4m, peak	127,0 dB
SPL IEC268-5, 1W/1m	113,0 dB
SPL IEC268-5, Pmax/1m	133,0 dB
Sensitivity EN54-24, 1W/1m	113,9 dB
Sensitivity EN54-24, 1W/4m	101,0 dB
Dispersion -6dB, 500Hz	58°/35° h/v
Dispersion -6dB, 1KHz	35°/25° h/v
Dispersion -6dB, 2KHz	40°/20° h/v
Dispersion -6dB, 4KHz	54°/15° h/v

Connections and Housing

Connector	4-pin ceramic block
Terminal Diameter	3,2 mm
Maximum Cable Passage	8 mm²
Max. cable cross section loop	2x2mm²
Temperature Range	-25 / +70 C°
Type A/B	B
Dimensions	1252x832x412 mm
Weight (net)	16,0 kg
Housing	ABS
Colour	RAL 9005
Mounting	V5A mounting bracket
IP Rating	IP65

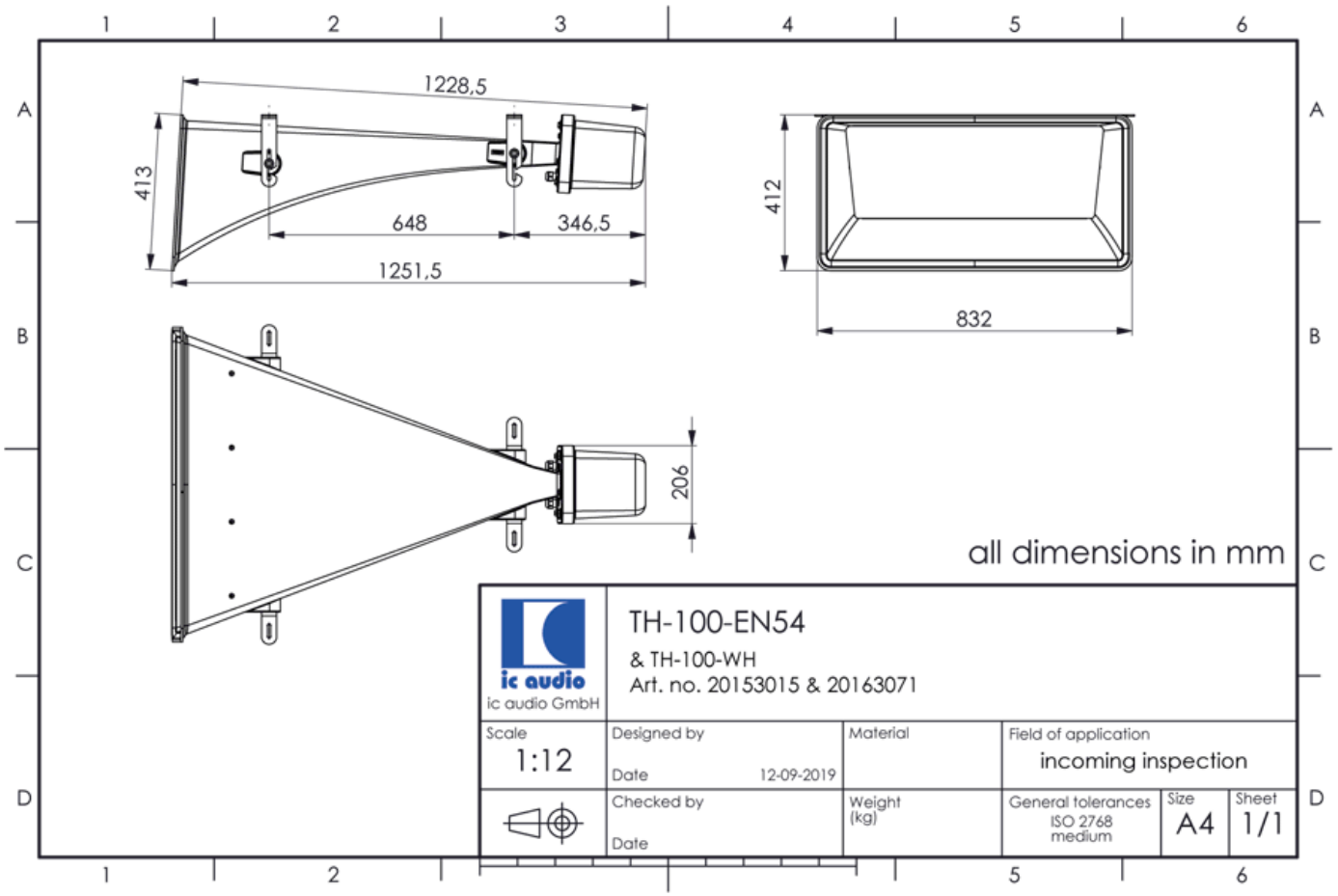
Certification

Ref. Nr.	01T-15
ID-Code	SAA-TH01
Certificate Number	1438-CPR-1263

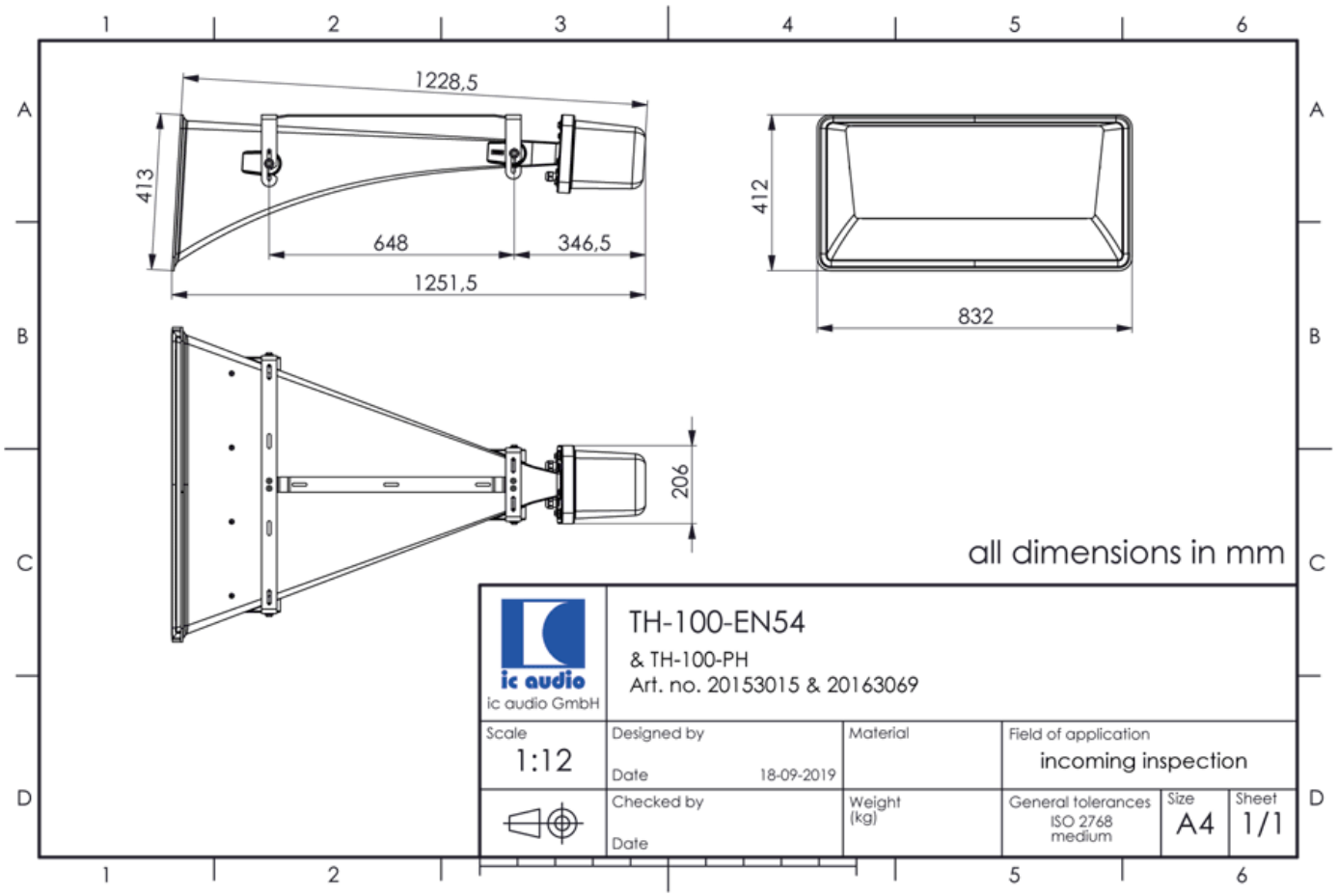
Product Attributes



Technical Drawing

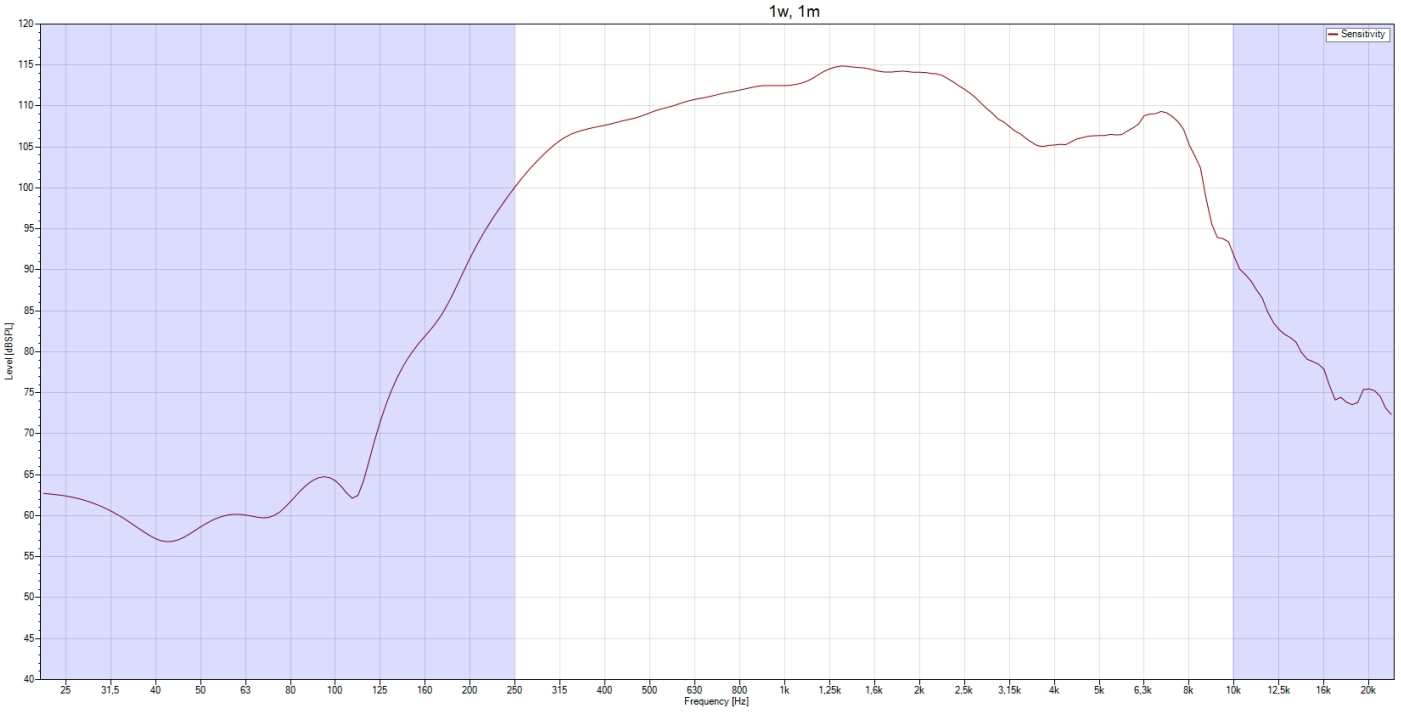


Technical Drawing

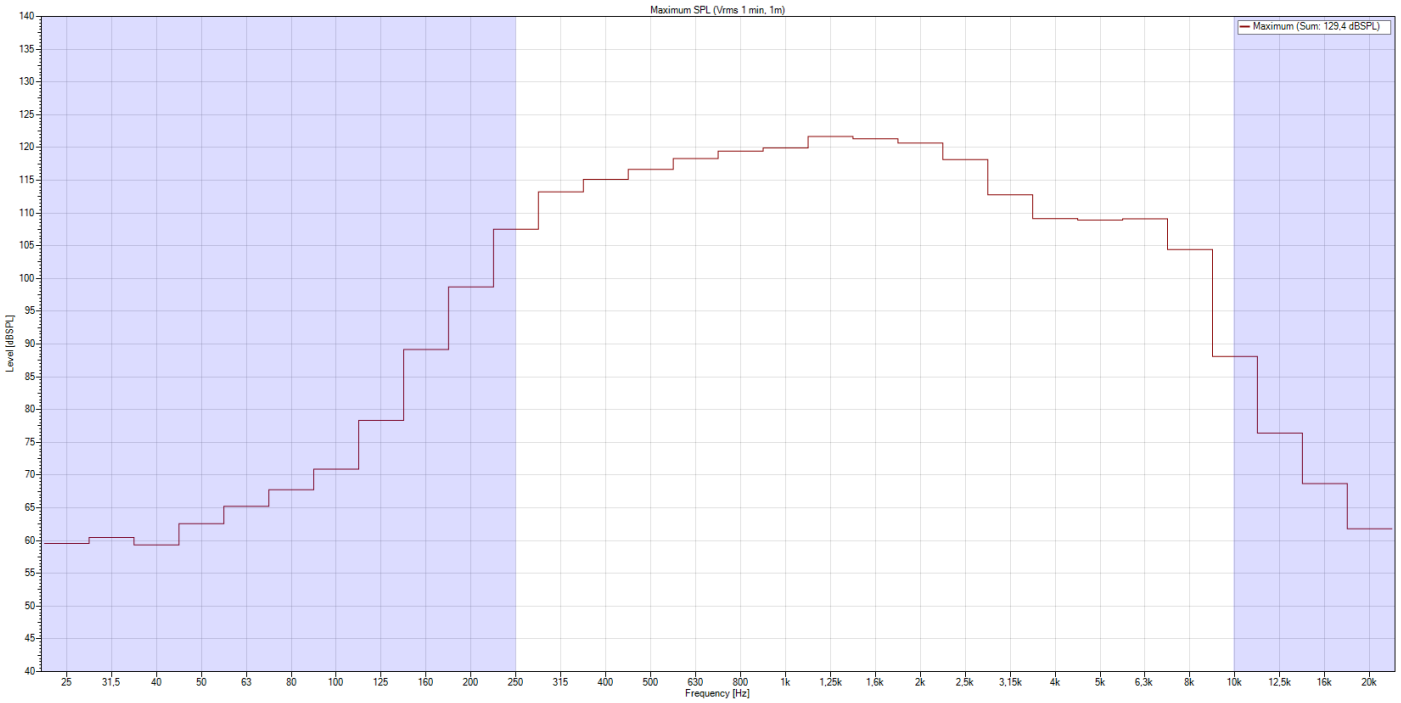


Frequency Response Diagram

Sensitivity

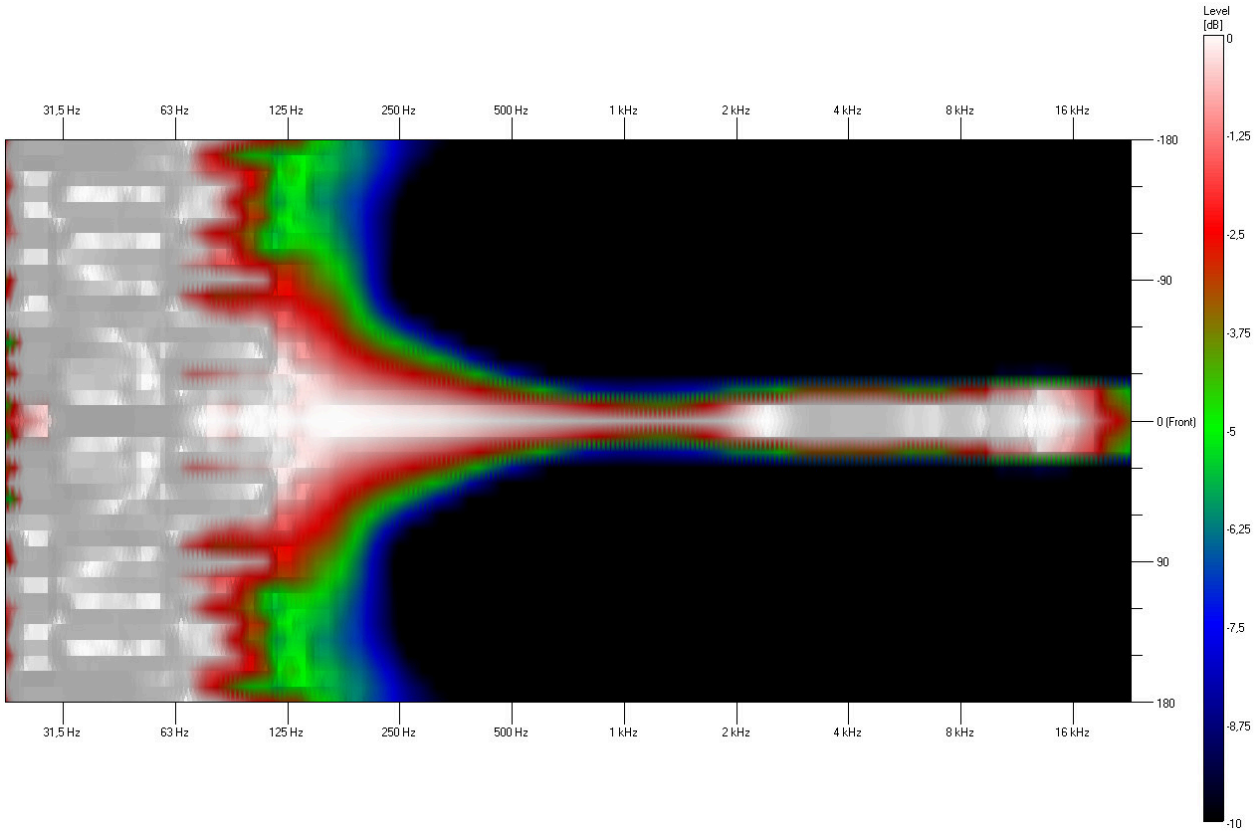


SPL Max

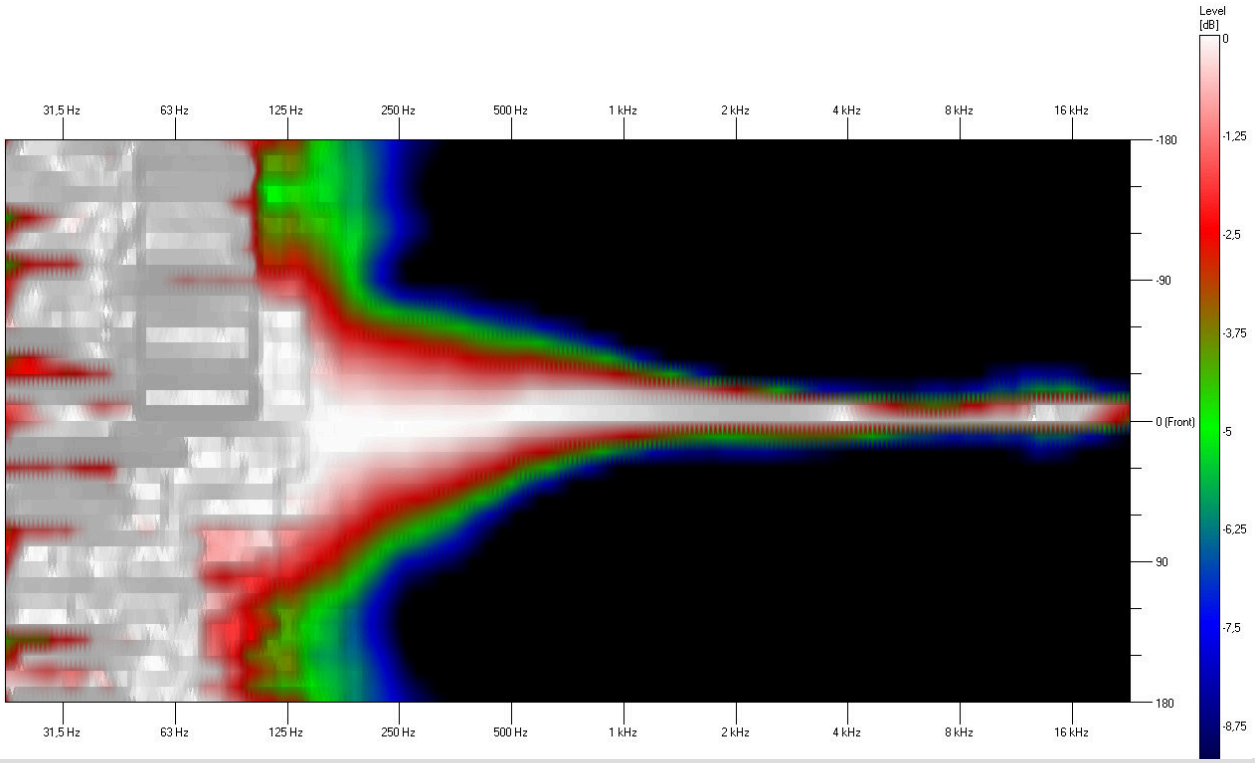


Isobar

Horizontal

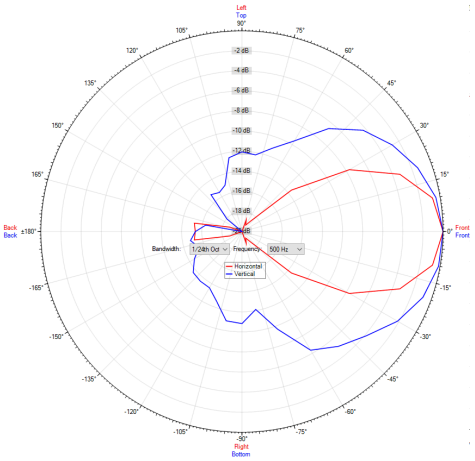


Vertical

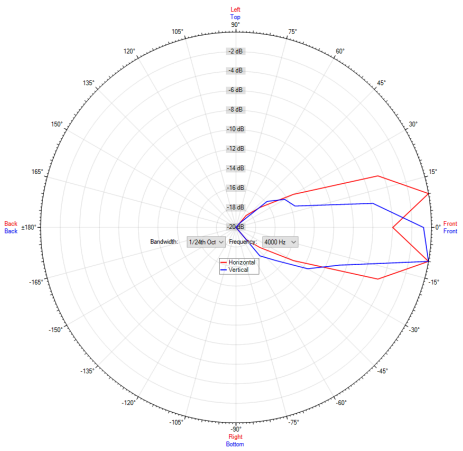


Polar Diagram

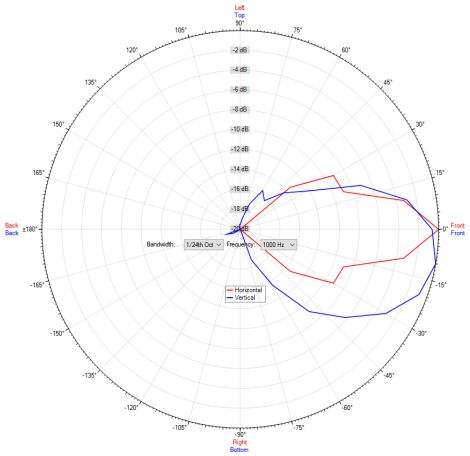
Polar Diagram 500Hz



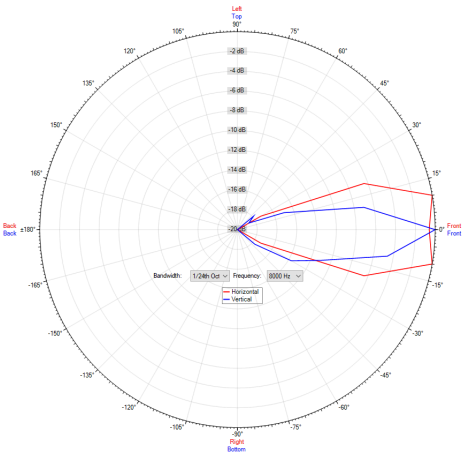
Polar Diagram 4000Hz



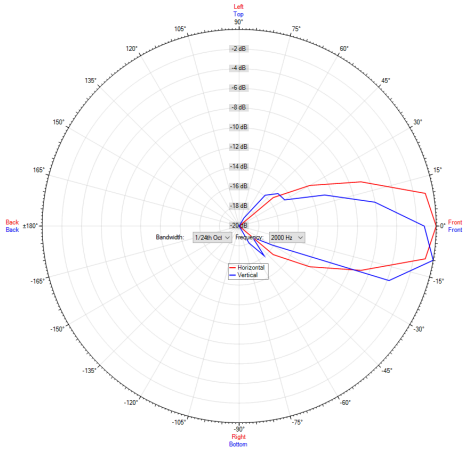
Polar Diagram 1000Hz



Polar Diagram 8000Hz



Polar Diagram 2000Hz



ic audio loudspeakers are tested and classified according to the IEC standard 60529 (degree of protection by enclosure) against the penetration of foreign objects and moisture. The classification is conforming to standards through characterization with a fixed code. This code consists of the letters IP (International Protection) followed by two digits. The first digit indicates the degree of protection against dust and the second digit the degree of protection against water. Please note that the testing of the products has been carried out in laboratory conditions which are not always 100% comparable with the conditions of different installation environments. This protection can be reduced due to normal wear and tear depending on the installation environment.

RoHS compliant (2011/65/EU)

The IP rating specified is based on ic audio test results, not on CNBOP-PIB test results. Certification only verifies the minimum requirements for EN54-24 compliance.

Article No: 20205416
Packing Unit: 1