



## DL-SE 06-130/T-EN54-C

- frameless design
- suitable also for very thin ceilings
- WAGO connector 221

EN54

CE
25

EN 54-24:2008
**Ref. Nr.**: 001-18
**ID-Code**: SAA-1801
1438-CPR-0642

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CE-Symbol gemäß Richtlinie 93/68EWG

The frameless design of the new ceiling speakers is inspired by current LED lights and already has the makings of a classic. The 6W powered speaker is equipped with a 130mm full-range loudspeaker, a 100V transformer with 3 power adjustments and a DC blocking capacitor (2.2 µF, 250V). The powder-coated metal in RAL 9016 guarantees long-term stability. For additional reliability, the speaker is impregnated against wetness.

The speaker is also secured with protection class IP 21C against the security risks of environmental influences. Fast and easy installation by WAGO 221 connector and strong spring clamps with protective caps for vibration damping. The connecting cables can be supplied through rubber grommets in the fire dome.

Special paint of the speaker in 4-digit RAL- or NCS- colour is available at extra cost. The fire dome is included in the delivery.

This speaker is suitable for a ceiling strength of about 1-45 mm. Our specification is primarily related to solid ceilings, for ceilings with soft materials higher ceiling thicknesses could be necessary. In addition, stronger cables and other fittings may also result in changes in the appropriate setup. With regard to the variety of materials and manufacturers, we recommend building a sample of the speaker to match the requirements accurately.

| | |
|---|---|
| Product | DL-SE 06-130/T-EN54-C |
| Article No | 20173196-C |

## Acoustics

| | |
|---|---|
| Power | 6/3/1,5 W |
| Impedance (100V) | 1667/3333/6667 ohm |
| Speaker ø | 130 mm |
| Frequency Range | 80 - 20.000 Hz |
| Frequency Response | 64 - 21.500 Hz |
| SPL 1W/1m, peak | 97,0 dB |
| SPL 1W/4m, peak | 85,0 dB |
| SPL Pmax/4m, peak | 92,7 dB |
| SPL IEC268-5, 1W/1m | 90,0 dB |
| SPL IEC268-5, Pmax/1m | 97,8 dB |
| Sensitivity EN54-24, 1W/1m | 90,0 dB |
| Sensitivity EN54-24, 1W/4m | 78,0 dB |
| Dispersion -6dB, 500Hz | 180° h/v |
| Dispersion -6dB, 1KHz | 180° h/v |
| Dispersion -6dB, 2KHz | 150° h/v |
| Dispersion -6dB, 4KHz | 75° h/v |

## Connections and Housing

| | |
|---|---|
| Connector | WAGO 221 connector |
| Terminal Diameter | 2,3 mm |
| Maximum Cable Passage | 4 mm² |
| Max. cable cross section loop | 4 mm² |
| Temperature Range | -10 / +55 °C |
| Type A/B | A |
| Dimensions | 180x100 mm |
| Ceiling Cut-out | 161-167 mm |
| Weight (net) | 0,81 kg |
| Housing | metal |
| Colour | RAL 9016 |
| Mounting | Quick fit mounting |
| IP Rating | IP21 |

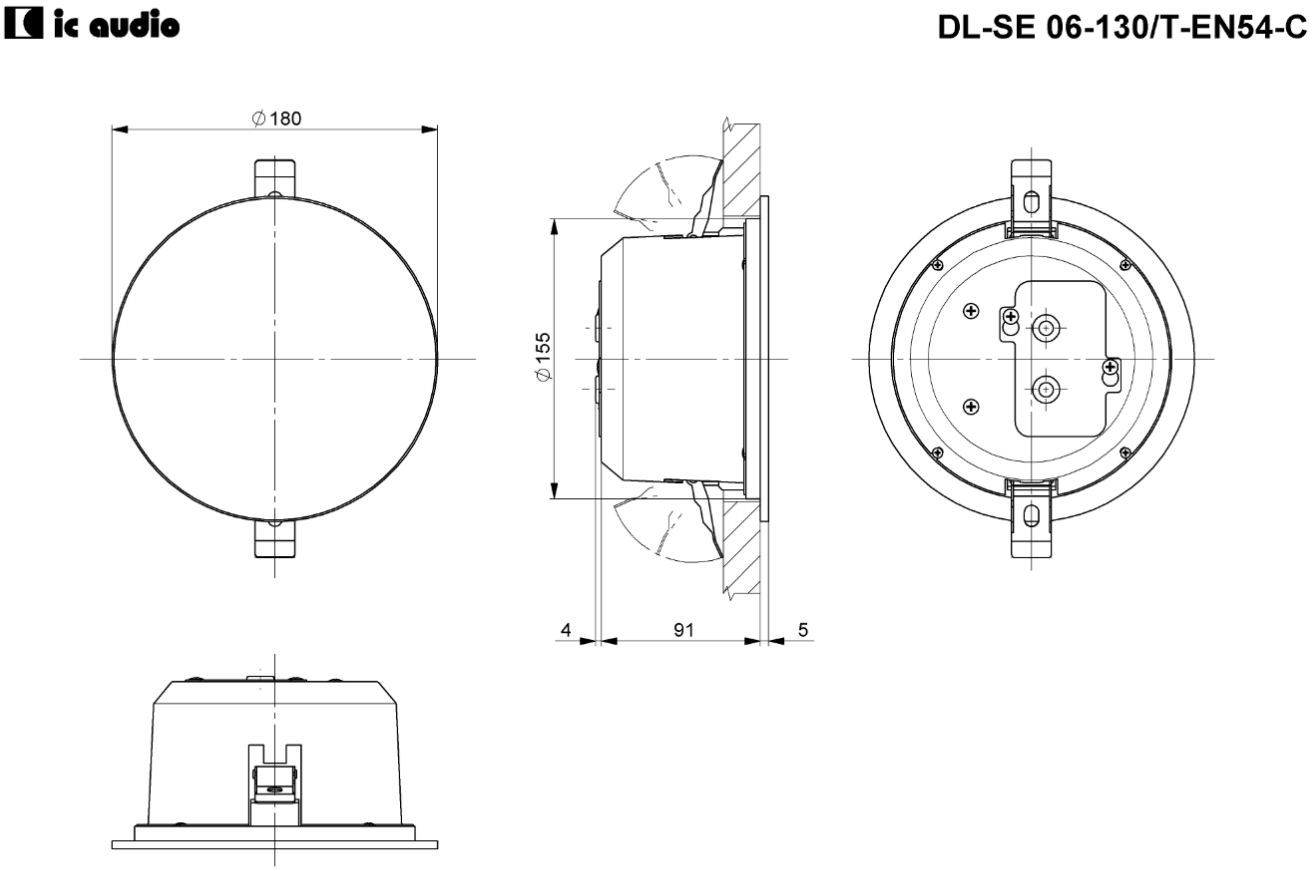
## Certification

| | |
|---|---|
| Ref. Nr. | 001-18 |
| ID-Code | SAA-1801 |
| Certificate Number | 1438-CPR-0642 |

## Product Attributes

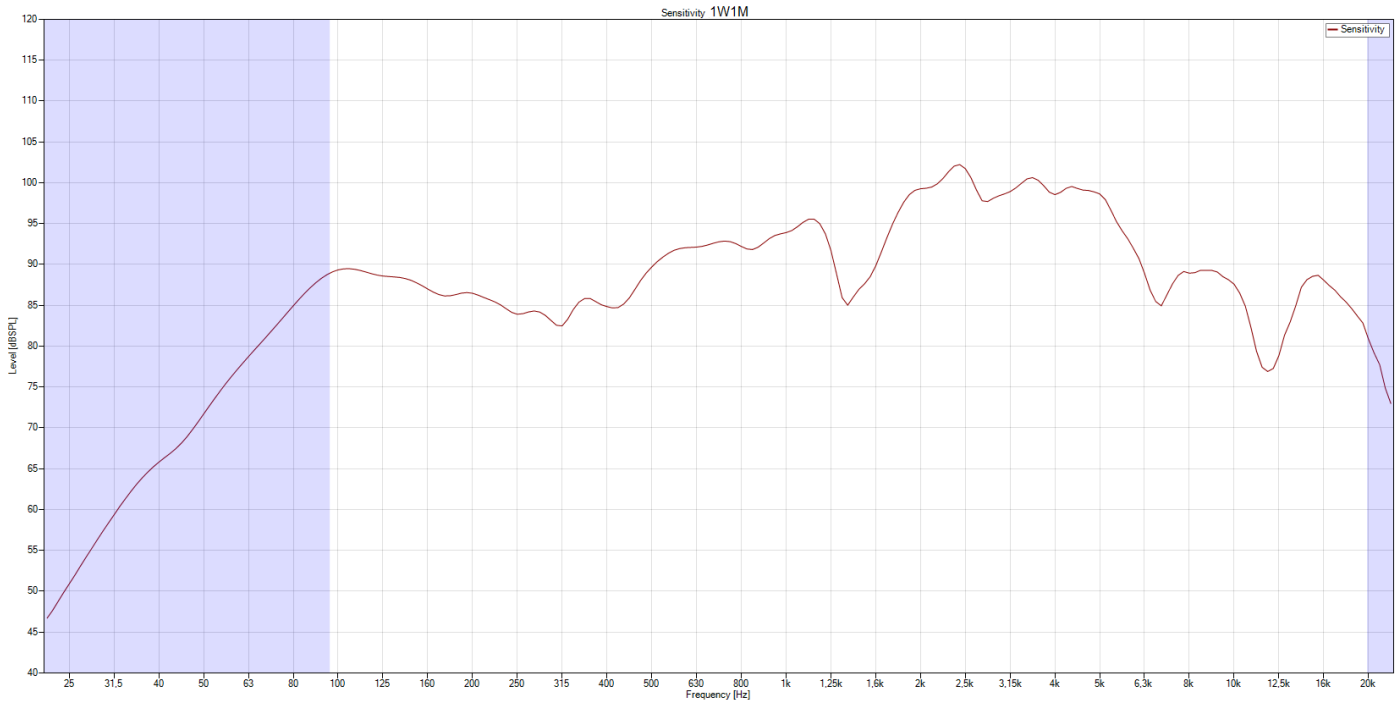


## Technical Drawing

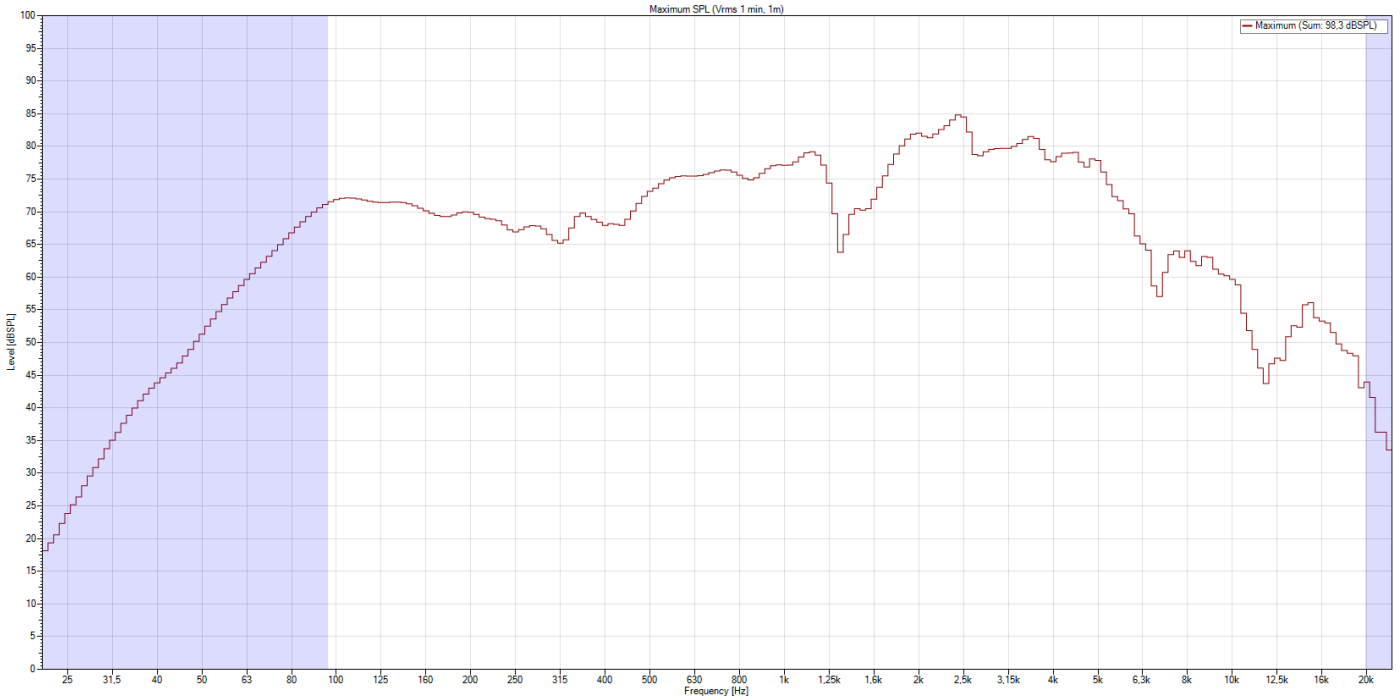


## Frequency Response Diagram

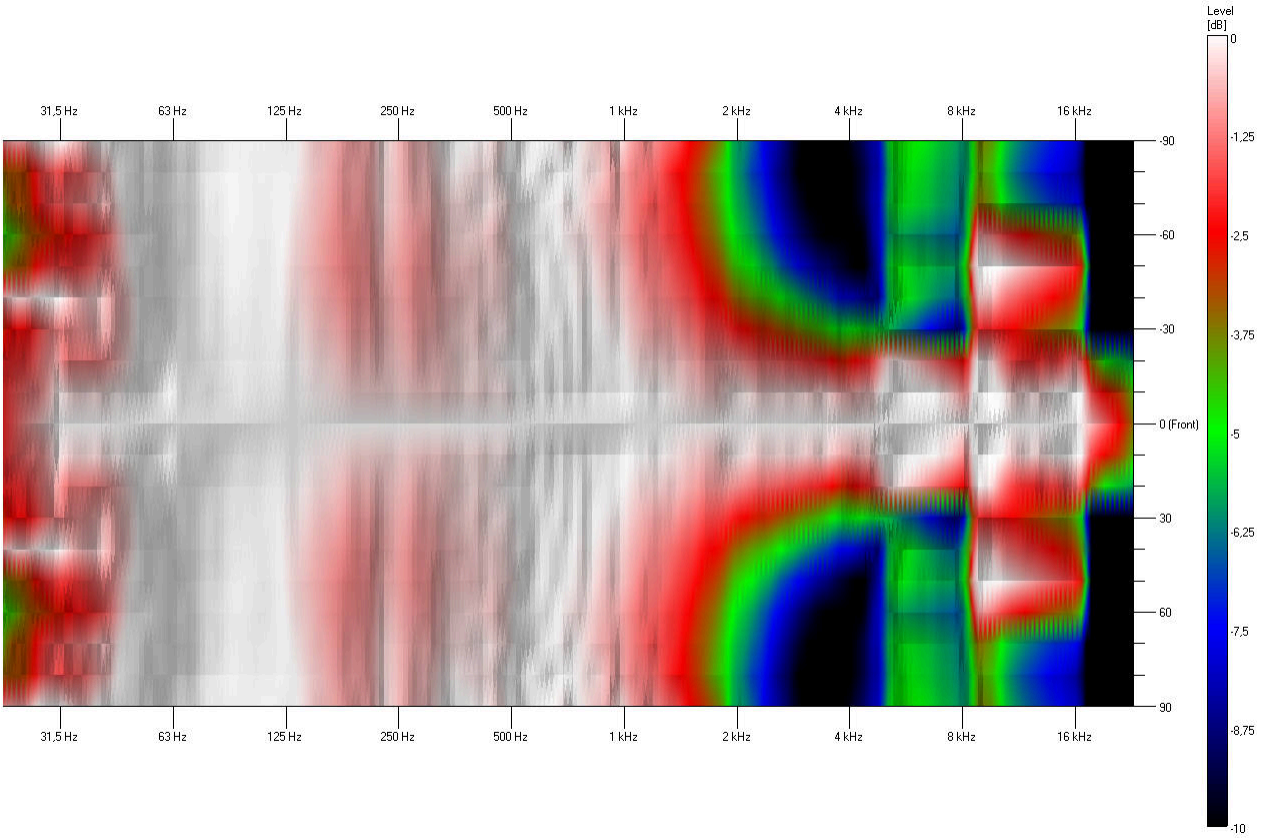
Sensitivity




SPL Max

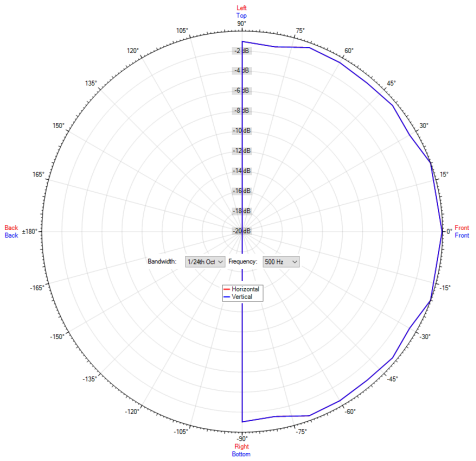


## Isobar

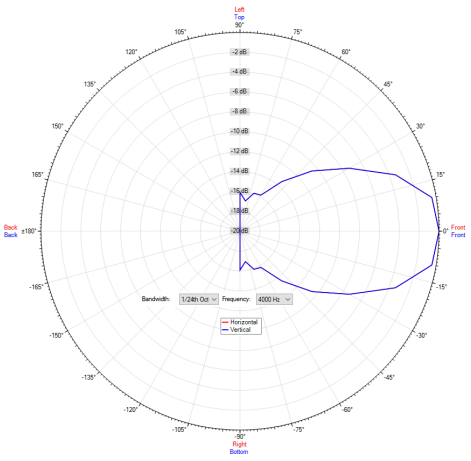

31,5 Hz
63 Hz
125 Hz
250 Hz
500 Hz
1 kHz
2 kHz
4 kHz
8 kHz
16 kHz
-90
-60
-30
0 (Front)
30
60
90
Level [dB]
0
-1,25
-2,5
-3,75
-5
-6,25
-7,5
-8,75
-10

## Polar Diagram

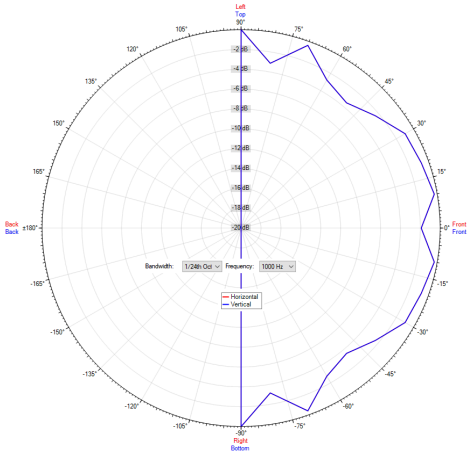
### Polar Diagram 500Hz



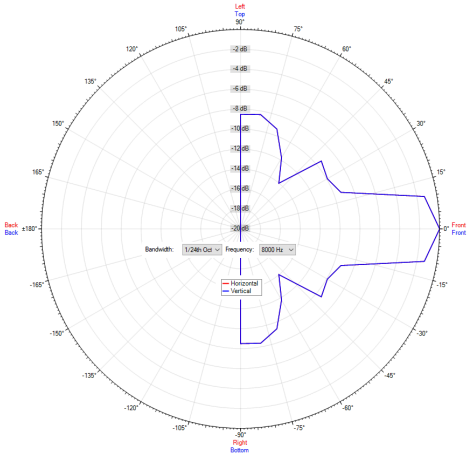

### Polar Diagram 4000Hz



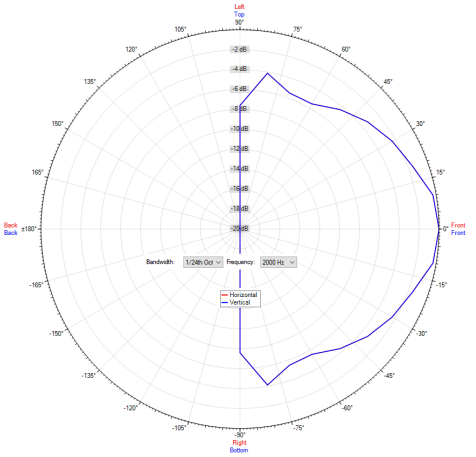

### Polar Diagram 1000Hz




### 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:** 20173196-C
**Packing Unit:** 12