



VELOX VCS650-FD-EN

6.5" Ceiling speaker, 6 watts, RAL 9016, metal, certified EN 54-24, BS 5839 compliant, IP21C, with Fire Dome



Description

The 6W powered speaker is equipped with a 165mm full-range loudspeaker chassis and a 100V transformer with 3 power adjustments. The powder coated metal similar in RAL 9010 guarantees long-term stability. For additional reliability, a 2 pin-ceramic block, a thermal fuse is provided and the speaker chassis is impregnated against wetness.

The speaker is also secured with protection class IP 55 against the security risks of environmental influences. Quick and easy mounting with spring clamps and short tension distance. The connecting cables can be supplied by rubber grommets in the fire dome.

The speaker is also compliant with the British Standard BS 5839, Part 8. Special paint of the speaker in 4-digit RAL- or NCS-colour available at extra cost. The fire-dome is included in the delivery.

This speaker is suitable for a ceiling strength of about 2 – 45 mm. Our specification is primarily related to solid ceilings, for ceilings with soft materials a higher ceiling thicknesses could be necessary. In addition, stronger cables and other fittings may also result in changes of the appropriate setup. With regard to the variety of materials and manufacturers, we recommend to build in a sample of the speaker to match the requirements accurately.

- quick mounting
- shock-resistant housing
- BS 5839

Standard & Approvals

VELOX 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.

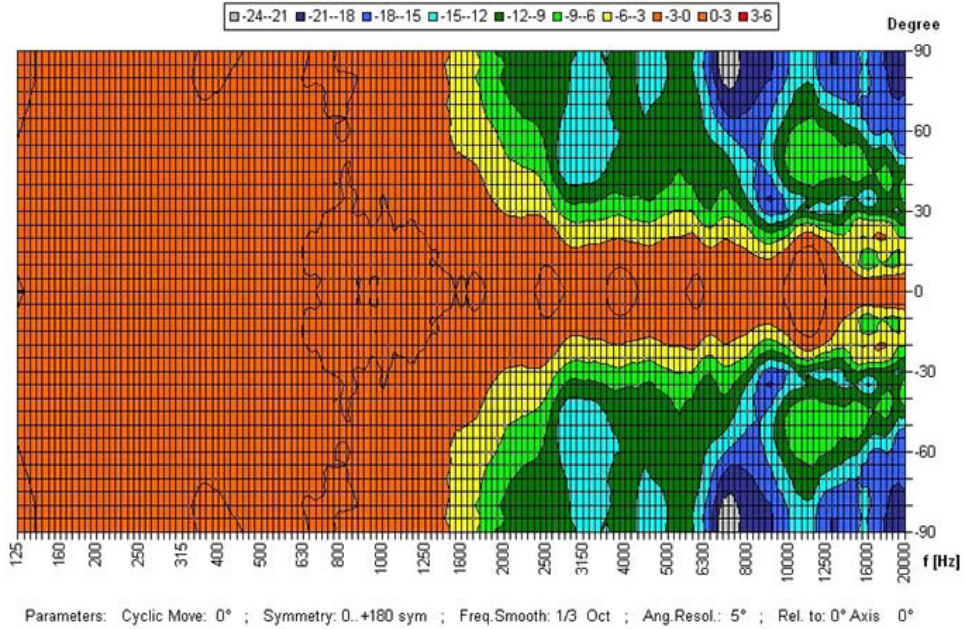
RoHS compliant (2011/65/EU)

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

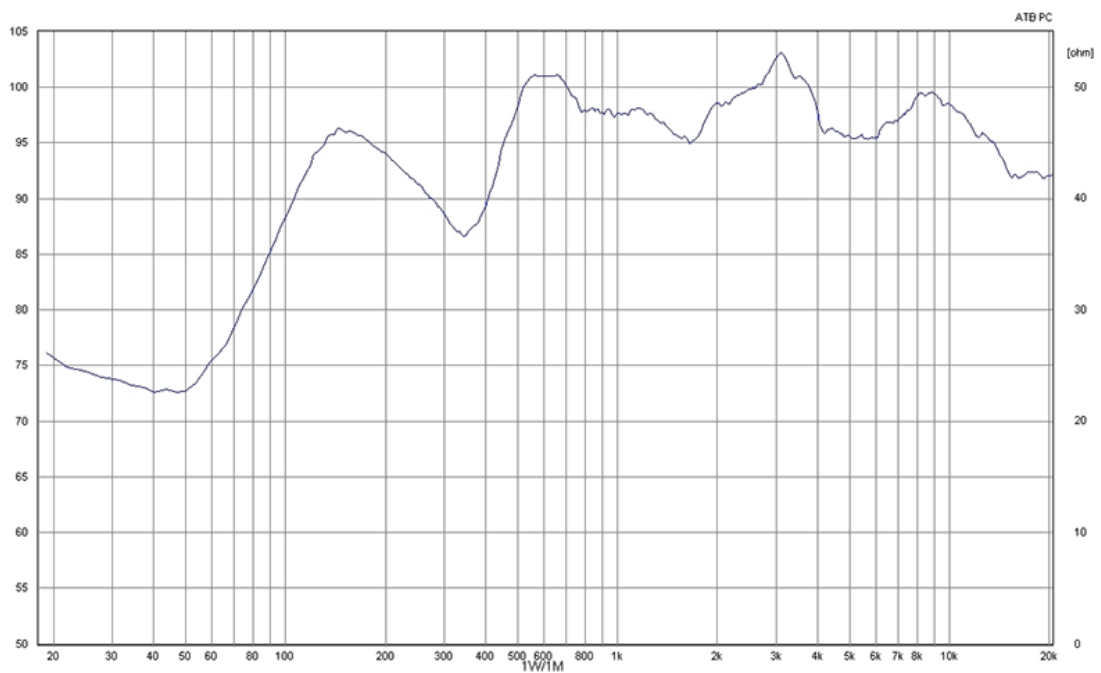


EN 54-24:2008
Ref. Nr.: 018-15
ID-Code: SAA-LS18
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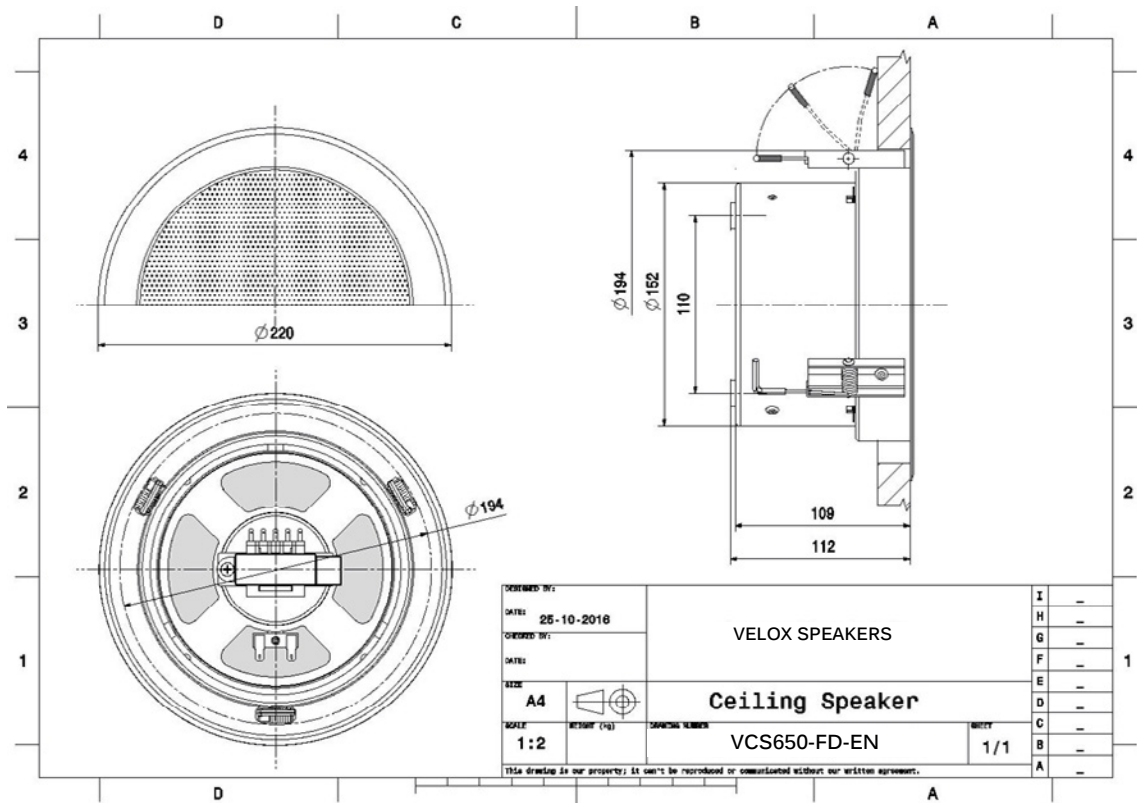
Polar Diagrams



Frequency Response Diagrams



Technical Diagrams



Technical Data (Electrical)

Feature	Description
Power	6/3/1,5 W
Impedance (100V)	1667/3333/6667 ohm
Frequency Range	404 - 10.100 Hz
Frequency Response	80 - 24.000 Hz
SPL IEC268-5 , 1W/1m	93,0 dB
SPL EN54-24, Pmax/4m	89,0 dB
Sensitivity EN54-24, 1W/4m	81,0 dB
Sensitivity EN54-24, 1W/1m	93,0 dB
Dispersion -6dB, 500Hz	h/v 180°
Dispersion -6dB, 1KHz	h/v 175°
Dispersion -6dB, 2KHz	h/v 100°
Dispersion -6dB, 4KHz	h/v 50°

Please note: Because of many different types of ceiling materials and ceiling strengths we recommend to build in a sample of the speaker to match the requirements accurately.

Technical Data (Mechanical)

Feature	Description
Dimensions	220x109 mm
IP Rating	IP55
Weight (net)	1,36 kg
Ceiling Cut-out	198 mm
Temperature range	-10 / +55 C°
Mounting	Quick fit mounting
Connector	2-pin ceramic block
Terminal diameter	3,2 mm
Maximum cable cross section	8mm ²
Colour	RAL 9010

Order code

Part No.	Description
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