



What are Figaro and Ottone?

Figaro and Ottone are revolutionary audio speakers using technology that transforms walls, ceilings, windows, tables and nearly any solid surface into a speaker.

How does ESARC technology work?

Figaro and Ottone are powerful sound transducer that transmits acoustical energy through almost any solid surface. The two products are using a special alloy, called Terfenol - D that convert audio signals into powerful vibrations that are then transferred into solid surfaces by direct contact.

With what surfaces does ESARC products work?

Figaro and Ottone performs with excellence when used on rigid surfaces including glass, ceramic, metal, drywall, wood, laminates, composites, fiberglass, and other. Structures include walls, ceilings, floors, tables and other items of furniture in residential, retail, commercial and industrial environments. Figaro and Ottone does not work on concrete surfaces.

What are the benefits of Figaro and Ottone?

The benefits of Figaro and Ottone are that it: Transforms rigid surfaces such as walls, ceilings, floors, windows, tables, and other items of furniture into high quality sound sources.

Easily attaches to surfaces and install directly behind walls and ceilings to create a high- quality sound system with no visible speakers, grilles or wires Blends seamlessly into a room's environment, allowing you to design your space the way you desire or leave your existing space in its original, untouched condition immerses the listener in sound, which is omni-directional at nearly all frequencies 53Hz-18kHz Maintains channel separation Delivers sound to problem areas.

What is the sound quality of Figaro compared to conventional speakers?

Figaro delivers high-quality sound equal to and surpassing that of conventional diaphragm speakers in their price range. Full-range sound is radiated from the entire surface with a frequency response of 53 Hz to 18 kHz while maintaining excellent channel separation. A conventional speaker radiates from a small surface area. The resulting sound is louder near the speaker but dissipates the further you are from the speaker. With Figaro, sound projected from a wall or ceiling is evenly distributed over a large surface area.

This sound completely fills the room and is equal in all areas, immersing the listener.

How efficient is Figaro?

Figaro is highly efficient; and efficiency is very important, particularly for in-wall and in-ceiling applications. Highly efficient Figaro addresses this challenge with its ability to generate sound from an entire flat surface with very little power. In fact, Figaro can generate sound from solid surfaces using less than 40 watts.

How reliable are ESARC products?

Figaro and Ottone are extremely reliable, having no moving parts rubbing together that could cause wear or require lubrication. Parts subject to fatigue due to vibrations are fabricated from special non-fatiguing materials.



How does ESARC products function compared to conventional speakers?

A conventional speaker uses a speaker cone that vibrates to generate sound. The sound created by Figaro and Ottone is similar to a guitar or piano. In a guitar, the vibrating string causes the guitar body to vibrate in response to the string. The vibrating guitar body then creates the sound we hear. Figaro and Ottone create a vibration (like the string) and then uses walls, ceiling, windows or other solid surfaces (like the guitar body) to create sound.











Sound propagation of 2 conventional speakers



Sound propagation of 1 Figaro™

What applications are there for Figaro?

Figaro works great for home theater systems, any residential, retail, commercial or industrial environment. Applications are only limited by your imagination.

Type of audio system	Figaro F-Fil	Ottone
Mono		
Stereo		
Dolby surround (5.1 / 7.1 / 9.2)	 We strongly suggest to integrate the system with an external subwoofer	 With Ottone the sound quality is not sufficient
100/70 Volt line	 With the addition of toroidal line transformer 100/70Volt - 30 W 40hm	 With the addition of toroidal line transformer 100Volt - 30 W 40hm

Who can use Figaro and Ottone?

ESARC products are ideal for professional installers; and because Figaro uses materials already existing in a room, it is perfect for installed home audio, commercial audio or home theater sound systems.

Will the vibrations created by Figaro harm the structure on which it is mounted?

No. The level of vibration imparted by Figaro to the wall or solid surface will not hurt the structure.



How are Figaro and Ottone packaged?

Figaro and Ottone is packaged as a single drive. Mounting instructions are included



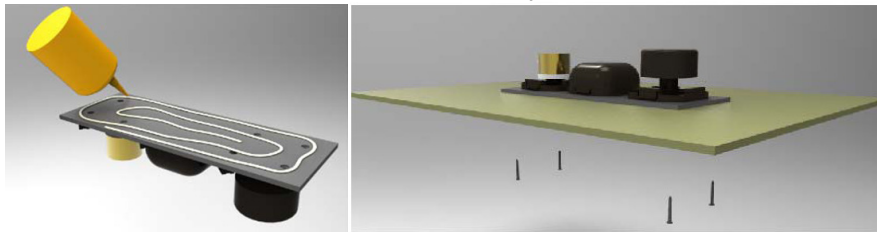
Dimension: 280x390x90mm



Dimensioni: 130x150x80mm

How is Figaro installed in walls and ceilings?

Figaro installs behind walls and ceilings, making direct contact with and adhered to the back side of the drywall with vinilic glue and screw it. Installation can be done both before drywall installation and into existing drywall. Please note that short installation videos are posted online, as well, at www.esarc.com.



How is Figaro installed on wood surfaces?

Figaro can be mounted under conference tables or desks by screwing it directly to the underside of the table. Figaro should be mounted in the center, underneath the table. To ensure an optimal listening experience, the installer MUST equalize the Figaro sound systems.

How is Ottone installed onto glass surfaces?

Ottone can be installed on windows to deliver sound to glass storefronts and glass reception areas or on glass table tops. The double-sided adhesive disc that comes with the product is applied to the base of the drive, and the other side of the disk is pressed to the glass surface with moderate pressure. Ottone is then connected to an amplifier. To ensure an optimal listening experience, the installer MUST equalize the sound system.

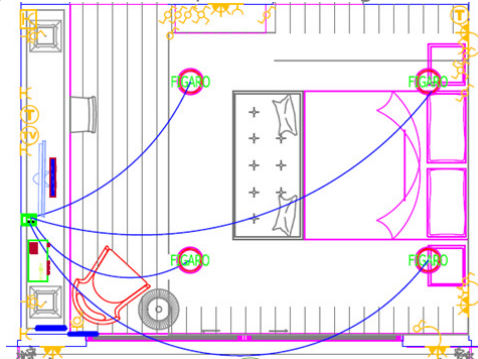
How ESARC product sound system optimized for optimal sound quality?

The surface material plays a key role in the system's sound performance. To ensure an optimal listening experience, the installer MUST equalize the amplification system.



Where should Figaro be placed for home theater applications?

Figaro will create the powerful sound, full frequency response range for multi-channel home theater systems. Home theater set up for the 5.1 system should be placed as designated in the diagram below.



How many Figaro are needed for a home theater installation?

A 5.1 home theater sound system will require 5 or 4 Figaro and a subwoofer – 1 Figaro for the left and right front channel, 1 Figaro for the central channel if the monitor is install in a drywall if not we strongly suggest to use a traditional speaker; 1 Figaro for the left and right surrounds.

Can conventional speakers be combined with Figaro and Ottone?

Yes, ESARC products can be combined with speakers to achieve the desired sound quality.