

All you need to know about the Roundffusor1

■ Why and where Roundffusor1? Using our R1 you can obtain aurally pristine natural acoustical environments for Recording Studios, High-End rooms, City & Conference Halls, Cinema & Music Halls, Swimming pools, Listening rooms, Home theaters, CD Mastering Rooms, Film mix and dubbing stages, Music Schools and practice rooms, Churches. The R1 is used in the Ray Kimber's IsoMike special recordings. We do the acoustical study and acoustical measurements for all situations

■ The R1 brings in musical harmony your recordings/movies with your room and your brain. The R1s grouped surface reduce drastically the reverberation time (RT60) / echo in any kind of rooms. There is the R1's RT60 constant, which is 0.35-0.4 sec regardless the room volume, resulted from a 30% or less room's surface covering (the 30% is the Heinrich Kuttruff's theoretical limit of diffusion surface).

■ The total room area is including floor and ceiling, so just one of your four walls is more or less covered with R1s depending on audio system parameters. Construction which uses non-parallel walls is not detrimental to the effect of the R1, but will not be needed in a room treated with R1s. Typically, for a normal room of 5L x 3.5 W x 3H meters, the total area is 86 m² and 15 units R1 (15 x 58cm x 58cm) are just 6.4 m², meaning less than 8% ! Optically, your room remains your initial room and not a heavy upholstered one as the concurrence propose you ! Always use the bigger and just a single unified R1's surface you can afford, behind the speakers or upon the opposite back wall.

■ As all the unique and serious ideas / products the R1 is the one and only model but has various industrial or artistically paintings

■ Roundffusor1 is an active gain (~2dB) clean sound diffuser (180 - 250Hz to 20.000 Hz) & an adaptable low frequency Helmholtz resonator - highly efficient like bass trap (5 Hz to 250 Hz) at levels up to 130 dB SPL. R1's Diffusion coefficient is ~1 (the theoretical limit) ! Even after many hours of listening to or working with audio at such high levels, the R1s doesn't let you entering into the ear fatigue or headache phenomenon thus, the critical audio decisions will be correct - technically and musically

■ Being an adaptable device, the diffusion / absorption parameters follows the ear's ideal spectral / loudness curves, from whispers to pain levels. The room resonances becomes musical ones. R1 was successfully tested to real helicopter recorded sound! During the test we still understood each other making amazing comments

■ R1 is 100% Occupational Safety and doesn't expose your breath to porous particles or fungus, common things in foam absorptive materials or fiberglass covered with fabrics, which might cause allergies or asthma. More, unlike foam or fiberglass the R1 will not absorb liquids, can be easily cleaned, is nearly indestructible, and will not retain odors. This makes it a cleaner, safer alternative. R1 is made from high impact polystyrene with antistatic additive, flammability rating ISO UL94 HB @ 1.6 mm

■ Historically, having the R1 on the market, the idea of acoustical treatments was never that easy and the results so sure. The level of aural sophistication is incredible. After listening a song in a R1 environment, we'll never be able to go back to the old and obsolete absorption way, harmful for the music. This site is a complex description of what R1 is doing. Believe it or not ... "Do not give what is holy to dogs, and do not throw your pearls before swine, or they will trample them under their feet, and turn and tear you to pieces"

■ R1 is the World's Most Efficient All in One Acoustical Diffuser Device and The Real Acoustical Reference of The Music Industry & High End field. R1 is produced by ESR Acoustics and is Granted with a United States Patent Nr.:7261182/2007 and European Patent Nr.:1506541/2010

■ Affordability? R1 costs LESS than any other acoustical material! The obvious advantage of an invention way ahead of its time

Detailed Market Applications

- Radio and TV broadcasting, stereo equipment and consumer electronics
- Movies, movie products and theatre operations
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- Recording Studios - Music, records, production and instruments
- home theatre installations, quality control rooms, film mix and dubbing stages, CD mastering, music practice or normal residential rooms and also rooms for professional reviewers
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- Rehearsal rooms of any dimensions
- Amusement and recreational facilities
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- Elementary and Secondary Music Education Colleges & Universities
- Performing Arts Centers, Theatres
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- Swimming pools
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- Churches

• In Conclusion

- In all situations, and especially for Swimming pools, Churches and big or very big Music or Cinema Halls using the grouped R1 we obtain the R1's RT60 constant, which is 0.35 - 0.4 sec regardless the room volume. All kind of echoes will be reduced to inaudibility
- The intelligibility (clear understanding of the words meaning) is practically the maximum 1 (one)
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