Feonic F1PRO Audio Drive

Feonic F1PRO Audio Drives convert new and existing panels and structures of commonly used resonant building materials, glass, MDF, plywood, wooden floors, plasterboard and much more into high quality loudspeakers using non damaging micro-vibrations. When driven by a Feonic F1PRO the entire surface of the panel produces sound at an equal level.

The low profile F1PRO is unlike traditional speaker technology because it uses a very high powered smart material as a solid state exciter instead of a moving coil or such other high movement technologies. Typical amplitude at 200Hz is less than 3 microns at 1Watt, glass, - amplitude at 200Hz is less than 3 microns.

Key benefits

Feonic F1PRO’s provide a more even distribution of sound than directional traditional speakers - the whole panel becomes the speaker cone, creating an omni-directional, evenly distributed output. The frequency response of the output is not affected by the position of the listener relative to the sounder so all content is communicated all around the panel unlike directional solutions.

Traditional electromechanical exciters using moving coil mechanics which require massive movement to achieve the same results, often resulting in structural damage and cracking to surrounding structure. The versatility of the broad bandwidth F1PRO Audio Drive makes it the perfect choice for both audio and voice reproduction.

Technical Specification

- Impedance: 4 Ohms
- Integrated circuitry: Overload circuit protection
- Operating temperature range: -20°C to +80°C (-4°F to 176°F)
- Storage temperature range: -20°C to +100°C (-4°F to 212°F)
- Product weight: 1580g
- Product weight boxed: 1700g
- Product weight inc carton: 1800g
- Dimensions: 57mm (W) x 141mm (L) x 56mm (H)
- Mounting method: 3M VHB adhesive tape or optional mounting plat
- Connection to amplifier: Binding posts / sockets
- Optimal amplifier power rating: ≥100Watt
- Power Consumption: ≤60Watt (full bandwidth music)
- Sensitivity: 69dB@1m
- Typical Bandwidth: 60Hz-20,000Hz
- Sound Pressure Level 1kHz: 95dB@1m
- Sound Pressure Level Pink Noise: 90dB@1m
- Amplitude: 100μm (microns at <100Hz)
- Speech Transmission Index: 0.60 to 0.65
- Common Intelligibility Scale: 0.78 to 0.83
- Environmental protection: IP55 (Impervious to moisture, splash, dust and sand)

To download specifications visit www.feonic.com/downloads or scan the QR code using your mobile device