

DSH-600H™ DURASORB POLYSTYRENE HYBRID ABSORBER

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ETS-Lindgren's DuraSorb DSH-600H Absorber is the latest evolution of ETS-Lindgren's low profile, hybrid anechoic absorber technology. It combines the advantages of the proven FerroSorb performance with the physical properties of the PS Series absorbers. DuraSorb is constructed using substrates with rigid, closed cell foams, which are loaded volumetrically and uniformly throughout the absorbers. DSH-600H is ideal for 3 m range and 5 m range chambers.

Key Features

- 30 MHz to >40 GHz Frequency Range
- For MIL-STD-461, ANSI C63.4, CISPR 16 and CISPR 25
- Power Handling of 200V/m CW
- Durable Construction, Precision Installation Design
- Non-hygroscopic, Fire Resistant
- Watch our UTAC Case Study for Improving Chamber Performance!

Features

Optimized Design

The DSH-600H provides a smooth transition from free space impedance to the lossy ferrite tile base. As a result of its optimized design, high performance is guaranteed not only at the lower frequency band, but also at above 1 GHz. It has a reflectivity better than 17 dB from 60 MHz to 3 GHz, and better than 20 dB at above 4 GHz. At frequencies above 8 GHz, the reflectivity exceeds 35 dB. The absorption levels make DuraSorb ideal for treating semi-anechoic chambers for 3m and 5m range measurements per the CISPR 16 and ANSI C63.4 standards, it also meets the requirements of MIL-STD-461 and CISPR 25 standards. DuraSorb is manufactured by injecting uniformly loaded lossy materials in predetermined geometric shapes to produce the desired performance. After the lightweight substrates have been molded, they are shipped disassembled to job-sites for reduced shipping volume. Easily assembled at the site, finished absorbers are pressed and glued into a lightweight polystyrene universal mounting base on the walls and ceiling of the chamber. This method assures absorber rows are aligned with geometric precision.

Compact Size

DSH-600H is compact in size, with a 60 cm (23.6 in) height, and each 60 cm x 60 cm (23.6 in x 23.6 in) standard piece consists of two wedge shaped pyramids.

Non-hygroscopic & Fire Resistant

DuraSorb is intrinsically non-hygroscopic due to its closed cell design. Furthermore, DuraSorb is engineered to have outstanding fire resistancy. The material is treated additionally with environmentally friendly fire retardants beyond what is normally required for construction grade foams. DuraSorb material has been tested to meet the requirements of UL94 HBF and DIN 4102 B2.

Specifications

Electrical Specifications

Height¹: 60.0 cm (23.62 in)

Width: 60.0 cm (23.62 in)

Depth: 60.0 cm (23.62 in)

Weight: 3.9 lbs

¹Height Includes Ferrite Tile Base

Other Specifications

- DuraSorb Polystyrene Absorber
- PS-1001 Polystyrene Universal Mounting Base
- Ferrite Substrate
- Polystyrene White Caps

Product Charts

DSH-600H
Typical Reflectivity

