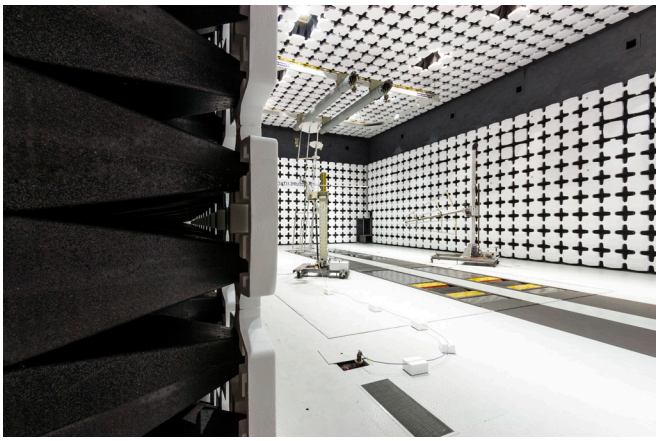
EMC ABSORBER DURASORB™ POLYSTYRENE HYBRID ABSORBER



MODEL DSH-600H

- **30 MHz to >40 GHz Frequency Range**
- **For MIL-STD-461, ANSI C63.4, CISPR 16 and CISPR 25**
- **Durable Construction, Precision Installation Design**
- **Non-hygroscopic, Fire Resistant**

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

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, both at lower frequency bands and frequencies 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 fo 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.

DuraSorb is intrinsically non-hygroscopic due to its closed cell design. Furthermore, DuraSorb is engineered to have outstanding fire resistance. 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 EN 11925-2, UL 94-HBF, DIN 4102-B2, and EN 13501-1 Class E.

Standard Configuration

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

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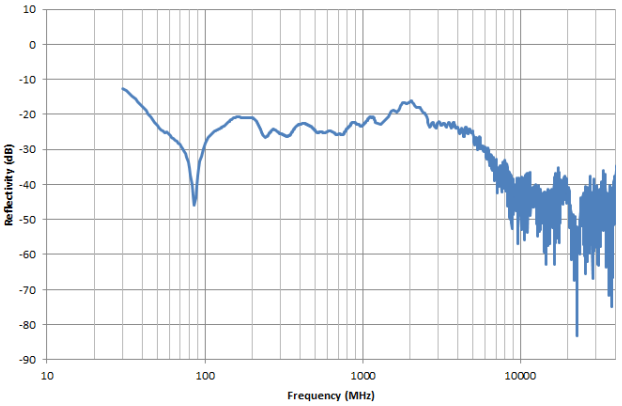
DuraSorb DSH-600H features a dual-pyramid design (shown without polystyrene white cap).

Technical Specifications

Electrical	
Frequency	30 MHz to >40 GHz
Power Handling	200 V/m
	106 W/m^2
	0.068 W/in^2
Physical	
Height[1]	60.0 cm
	23.6 in
Width	60.0 cm
	23.6 in
Depth	60.0 cm
	23.6 in
Weight[2]	2.7 kg
	6.0 lbs
Fire Standard	
Tested To	EN 11925-2 UL 94-HBF DIN 4102-B2 EN 13501-1 Class E

[1] Height Includes Ferrite Tile Base
[2] Typical Weight, Does Not Include Ferrite Tile Base

DSH-600H
Typical Reflectivity



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