

EMC ABSORBER DURASORB™ POLYSTYRENE HYBRID ABSORBER



MODEL DSH-1250H

- 30 MHz to 40 GHz Frequency Range
- For ANSI C63.4 and CISPR
- Durable Construction, Precision Installation Design
- Non-hygroscopic, Fire Resistant

ETS-Lindgren's DuraSorb DSH-1250H 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-1250H is ideal for 5m range and 10m range chambers.

The DSH-1250H 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.

The absorption levels make DuraSorb ideal for treating semi-anechoic chambers for 5m and 10m range measurements per the CISPR 16 and ANSI C63.4 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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Technical Specifications

Electrical

Frequency	30 MHz to 40 GHz
Power Handling	200 V/m
	106 W/m ²

Physical

Height– With Ferrite Tile Base	125.0 cm
	49.2 in
Width	60.0 cm
	23.6 in
Depth	60.0 cm
	23.6 in
Weight– Without Ferrite Tile Base	10.7 kg
	23.5 lb
Weight– With Ferrite Tile Base	26.8 kg
	59.0 lb

Fire Standard

Tested To	EN 11925-2 UL 94-HBF DIN 4102-B2 EN 13501-1 Class E
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DSH-1250H
Typical Reflectivity

