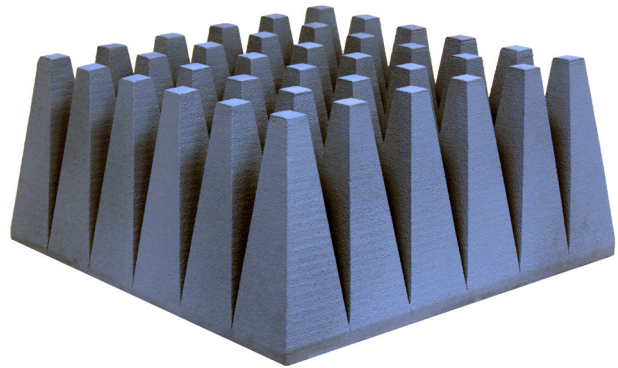


Features:

- 30 MHz to 40 GHz Frequency Range
- Small Profile
- For Use with Ferrite Tile Backing
- Up to 775 W/m² (0.5 W/in²) CW Power Handling
- Fire Retardant
- Meets Requirements for:
 - IEC 61000-4-3 for floor treatment
 - sVSWR testing floor treatment for CISPR 16
 - MIL-STD 461, RTCA DO 160, CISPR 25
 - Ideal for Covering Non-Critical Areas of 3 m Chambers
- Optional FlexSorb™ Flexible Absorber Colors Available



ETS-Lindgren's Model FS-300 Anechoic Absorber

FERROSORB FS-300 is the latest addition to the FS Family of hybrid (ferrite tile and carbon loaded material) absorbers from ETS-Lindgren. The FAA-300 loaded foam portion is designed to match the impedance of ETS-Lindgren's ferrite tile panels FT-1500. When combined, these two absorber technologies become the FS-300 absorber system.

FEATURES

Frequency Range

The absorber has a very broad band range of 30 MHz to 40 GHz, meeting the required range for MIL-STD 461 and CISPR 25 and providing enough absorption for use in the floor treatment for immunity measurements per IEC 61000-4-3 and for fully anechoic chambers for above 1 GHz testing per CISPR 16.

Small Profile

Only 30 cm high (11.8 inches), this absorber has very low profile yet it

has excellent absorption for the entire range of frequencies. The absorber ships in standard 60 cm x 60 cm (23.6 in. x 23.6 in.) pieces with 36 truncated pyramids per piece.

Tile Backing

The FAA-300 material is designed to provide absorption at low frequencies provided that it is used with a ferrite tile backing as part of the FS-300 absorber system.

Power Handling

Like other ETS-Lindgren absorbers, the FS-300 can handle up to 775 W/m² (0.5 W/in²) CW power density (540 V/m) in RF and MW frequencies. For periods less than 10 minutes, the absorber can safely handle up to 2650 W/m² (1.7 W/in²) power density (1000 V/m).

Maximum service temperature is 90° Celsius (190° F) continuous.

Fire Retardant

This absorber meets the fire

retardant standards of NRL 8093 Tests 1, 2, 3, MIT MS-8-21, UL 94, and DIN 4102-B2 Tests for Flammability. FS-300 has an ASTM E84-84 flame-spread index of 35 and a smoke developed index of 450.

Standards

FS-300 meets the absorption requirements of MIL-STD 461 E/F, RTCA DO 160 and CISPR 25. It can also be used to cover non-critical areas on FACT™ Chambers, such as the ceiling above the antenna tower location. Additionally, FS-300 is ideal as a floor treatment for immunity testing per IEC 61000-4-3 and for the floor treatment for testing above 1 GHz per CISPR 16 and related standards.

FlexSorb Coating and Colors Options

FS-300 absorber is also available with FlexSorb flexible, non-hygroscopic coating in a variety of colors. Contact ETS-Lindgren for details.

Electrical Specifications

MODEL	FREQUENCY	POWER HANDLING (CW)	POWER HANDLING (MAX)
FS-300	30 MHz - 40 GHz	540.0 V/m 775.0 W/m ² 0.5 W/sq. in	1000 V/m 2650 W/m ² 1.7 W/sq. in

Physical Specifications

MODEL	DIMENSIONS (L X W X H)	RATINGS: FIRE RETARDANT
FS-300	60 cm x 60 cm x 30 cm 23.6" x 23.6" x 11.8"	NRL 8093 Tests 1, 2 & 3 MIT MS-8-21, UL 94 and DIN 4102-B2

