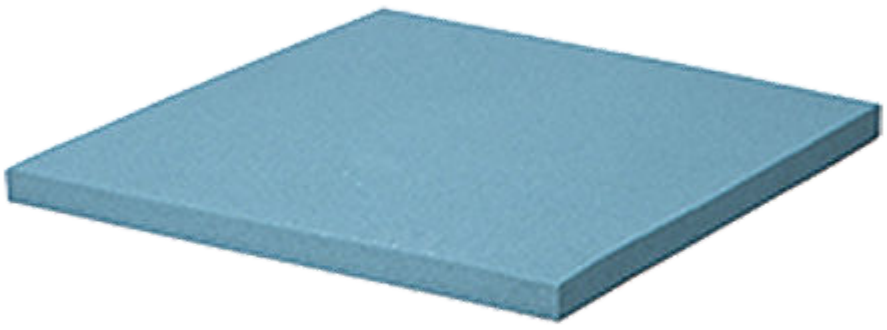
Flat Laminate Absorber



ETS-Lindgren's Flat Laminate Absorber, commonly known as a lossy foam block is a moderate performance broadband microwave absorber with graded dielectric material. The absorber is fabricated using three layers of carbon impregnated foam. By using a front layer with a small loss tangent, a center layer with a moderate loss tangent, and a bottom layer with a higher loss tangent, an electrical taper is achieved that yields a material with an average reflection coefficient of -20 dB over a wide frequency range.

A 100 percent inspection of the flat laminate series material is performed by measuring the reflection coefficient at the frequencies of 0-18 GHz shown under the Product Charts tab. The reflection coefficient is guaranteed to be -20 dB (1 percent) or less at the test frequency.

ETS-Lindgren's Flat Laminate Absorber or lossy foam block is flexible and easily cut using a band saw or a knife with a serrated edge. Best performance is achieved when the absorber is mounted in intimate contact with a metal surface. The front surface of the Flat Laminate Absorber is painted a light blue color.

Key Features

- Flexible and Easy to Cut
- Average Reflection Coefficient of -20 dB over a Wide Frequency Range

Specifications

Physical Specifications

Dimensions by Model

Model	Thickness	Base Size	Weight
FL-1125CL	2.9 cm (1.14 in)	61 cm x 61 cm (24 in x 24 in)	0.2 kg (0.44 lb)
FL-2250CL	5.7 cm (2.24 in)	61 cm x 61 cm (24 in x 24 in)	0.4 kg (0.88 lb)
FL-4500CL	11.4 cm (4.49 in)	61 cm x 61 cm (24 in x 24 in)	0.9 kg (1.98 lb)

Electrical Specifications

Frequency Range by Model

Model	Frequency	Test Frequency
FL-1125CL	2.4 GHz & above	3 GHz
FL-2250CL	940 MHz & above	1.7 GHz
FL-4500CL	455 MHz & above	800 MHz