

# ABSORBER FLAT LAMINATE ABSORBER



## FLAT LAMINATE ABSORBER

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

**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 electric 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 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.

## Technical Specifications

### Electrical Specifications

| 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        |

### Physical Specifications

| 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) |