



metu™ CornerTrap
Frequency Response Technology

Product Data Sheet



Superior Performance, Design & Flexibility are three important qualities that define metu™ CornerTraps.

Performance: metu™ CornerTraps are engineered and tested to control sound energy and its distortion emanating as a result of room corners. Including the control of room reverberation times, there are six sound quality metrics that AVRS uses to define the extraordinary acoustical performance of metu™ CornerTraps:

1. **Dynamics**
2. **Timbre**
3. **Bass Definition**
4. **Imaging**
5. **Soundstage**
6. **Detail**

Design: metu™ CornerTraps offer elegant furniture design in custom prefinished wood grains or paint finishes. The fabric wrapped acoustical panel is offered in a selection of custom fabrics and colors. Metu™ CornerTraps look as good as they make your equipment and room sound.

Flexibility: metu™ CornerTraps provide the flexibility to easily install on the floor or ceiling or both depending on the acoustical needs of your listening environment.

The Problem

Simply put, the properties of the listening environment define the quality of sound created within it. And room corners play one of the most significant roles in defining the sound quality of a room. Untreated room corners reinforce and magnify resonate room modal energy by as much as 3 fold. Low frequency resonances often overpower and muddy all 6 sound quality metrics. As a result, the listening experience deteriorates into uncontrolled sonic chaos.

The Solution

metu™ CornerTraps incorporate both diaphragmatic and reactive sound absorption technology (*patent pending*) to control the build-up of sound energy across a broad and even frequency band. Excellent sound absorption characteristics are achieved down to 80 hertz with additional room absorption influence down as low as 50 hertz. The result is a linear, wideband room response that sounds controlled and natural.

Application Standards

The following sound absorption coefficients for metu™ CornerTraps were derived from tests conducted in accordance with ASTM C423 from an accredited NVLAP test facility.

Frequency (Hz)	metu™ Corner Trap
50	0.20
63	0.28
80	0.72
100	0.55
125	0.86
160	0.65
200	0.74
250	0.72
315	0.72
400	0.76
500	0.88
630	0.97
800	1.07
1000	1.15
1250	1.2
1600	1.24
2000	1.26
2500	1.25
3150	1.24
4000	1.21
5000	1.19

Physical Property Data

CornerTrap Dimensions: 23" wide x 11.25" depth x 40.75" high with floor base (36.75" without floor base)
 Acoustic Panel Size: 22.5" wide x 34.75" high x 1.25" thick (610mm x 1219mm)
 Panel Weight: 17.6 lbs/sq.ft. (6.3 kg/m)
 Wood Finish: Selected
 Fabric Color: Selected
 Noise Reduction Coefficient: NRC 1.00
 Average Sabine Absorption Coefficient: SAA 1.00

Installation Procedure

metu™ Corner Traps come with materials necessary to easily assemble and install in corners over floors or ceilings. Ceiling mounting require wall anchors and screws, supplied. Light density insulation included for cavity absorption within unit.

Design Considerations

Metu™ CornerTraps are part of the metu™ family of products used to control room acoustic anomalies. AVRS recommends that the metu™ CornerTraps be used with metu™ wall panels as part of a series of room treatment Stages. (metu™ Treatment Stages 1 thru 4) Contact an AVRS representative for further details.

Keep product safe and dry during shipping, storage, and installation.