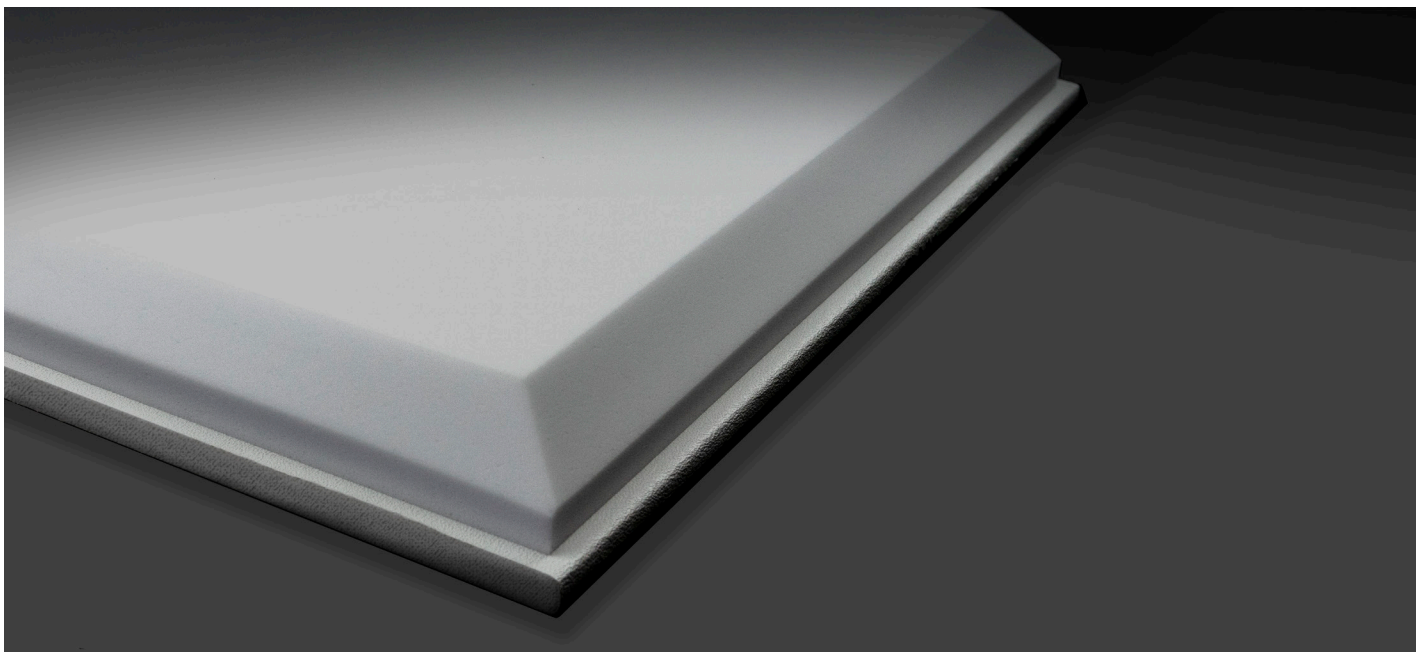


FUSION CEILING TILE | SILENCER SERIES

**TECHLITE® Fusion Ceiling Tile**

TECHLITE'S High CAC Fusion Ceiling Tiles are the superior acoustic solution to a variety of design challenges. The highly sound-absorptive melamine resin used to form the sound-absorptive TECHLITE® melamine foam is a relatively young material compared to polyurethane foam and has a remarkable range of properties. The High CAC Fusion Ceiling Tile provides you the capability to implement an acoustically-effective, cost-efficient sound-absorptive/sound-blocking treatment that is distinctly appropriate for your noisy environment providing acoustical comfort and excellent sound containment. The Fusion Tiles come in our standard size of 23-3/4" x 23-3/4" x 2-1/8". Standard or customized colors are available upon request, including our popular "blackout" theater Ceiling Tiles. The Tiles can be installed in both a 9/16" and 15/16" ceiling grid for a smooth, nondirectional, monolithic visual.

Specifications:

CAC Min: 45 • NRC Min. 0.85 • Light Reflectance: 0.81

PHYSICAL PROPERTIES

Material	Flexible Open-Cell Melamine Foam	Grindstone Gypsum Board
Service Temp	-40°F to 350°F	Up to 125°F
Density	Natural White 0.47 ± 0.13 lb/ft ³	53 lbs/ft ³
Fire Rating	Class A per ASTM E 84	Class A per ASTM E 84, 2 hour fire-rated
Finish	Natural	2 MIL Rigid Vinyl Laminate

BENEFITS

- Open-cell, fiber-free
- Aesthetically pleasing
- Aids with HIPAA requirements
- Class A fire-rated per ASTM E 84
- Viscoelastic/decoupling sound dampening layer
- Highly sound absorptive
- Highly sound isolating
- Extremely lightweight, easy to install

USES AND APPLICATIONS

- Classrooms
- Music Rooms
- Private or Open-Plan Offices
- Medical Treatment / Exam Rooms
- Conference Rooms
- Movie Theaters and More

SIZES/COLORS

- 23-3/4" x 23-3/4" x 2-1/4"
- Fits 9/16" and 15/16" ceiling grids
- Custom Edge Design Available
- Wide Range of Colors Available

Sound Absorption (NRC): Absorption Coefficient (a)										
Finish	Thickness [in]	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	SAA	NRC	Mounting Type
White / Custom Colors Available	2-1/4"	0.38	0.47	0.97	1.02	0.98	1.03	0.87	0.85	E-400

Absorption results tested in accordance to ASTM C423-17

Sound Blocking (CAC): Nomalized Decibel Reduction Dn,c (dB)							
Thickness [in]	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	CAC
2-1/4"	27.74	29.79	46.09	50.60	55.54	52.69	45

Above results tested in accordance to ASTM E1414-16

Applicable Standards and References

- ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products
- ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
- ASTM C1396 Standard Specification for Gypsum Board
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
- ASTM E1264 Standard Classification for Acoustical Ceiling Board
- ASTM E1414 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum

Examine suspension assemblies, with installer present, for compliance with requirements specified in this and other applicable Sections affecting ceiling tile installation and with requirements for installation tolerances and other conditions affecting performance of acoustic ceiling tile assemblies