



VSC Composite Foam Materials

MC5259/1/25 (Metalized Mylar Facing)

Composite materials are used to reduce reverberation within a space **and** increase the STC through the surface/structural components to which they are attached. They are typically composed of 3 layers, each of which is critical and serves a distinct purpose in reducing noise. In this instance:

1. 1" MC5259 Metalized Mylar Urethane Foam – Sound Absorption
2. VSC-10NL – 1# Limp Mass Sound Barrier
3. ¼" MC5200 - Decoupling Foam Layer (*Note: the foam, in this instance, is not there to absorb airborne noise, but rather, to allow the barrier to work effectively on airborne noise, by significantly reducing direct transfer of vibrational energy between the limp mass barrier in the composite and the surface to which the composite is attached*).



AVAILABILITY:

- Water Jet Cut
- Die Cut Parts
- Cut Sheets to Size
- Wide Width Rolls (54" wide)
- Thickness: 1/8" to 2"
- Milcote Edge Coating
- Laminated Vibration Damping Barrier

Physical Properties

1. MC5259

See MC5259 Spec Sheet

2. 10NL

See VSC- 10NL Spec Sheet

3. FOAM

See MC5200 Spec Sheet

Colour:

-Charcoal Grey

Density:

- 1.8 – 2.2 lb/ft³

Tensile Strength:

- 15 lb/in²

Tear Strength:

- 2 lb/in

"K" Factor:

- .25 BTU/hr./ft²/°F/in.

Elongation:

- 200%

Compression Set:

- 15% max (50% deflection @ 158% F, 22 hrs.)

Cell Size:

- 60 cells/in.

Flammability:

- MVSS 302, SAE J369 a (S.E.), UL-94 HF-1. (**NOTE: WE STOCK ONLY PRODUCT MEETING UL-94 HF-1**).