



UNIVERSAL

TEXTILE TECHNOLOGIES

Workplace Noise

High occupancy workplace, institutional, and educational interiors can generate noise levels which impact concentration, productivity, and even **healthcare** costs.

An **ASID** study reports the, "acoustic properties of a flooring system are strongly influenced by the addition of cushion in the commercial workplace."

Carpets with **BioCel™** or **EnviroCel™** polyurethane cushioned backings demonstrate enhanced acoustical and sound absorbing properties when compared with hard surface products, and even **broadloom** products with conventional backing.

Sound Absorption

Test Method ASTM C 423

Rates the propensity of a material to absorb sound over a range of audible frequencies. The higher the Noise Reduction Coefficient (**NRC**) value, the greater the sound absorption properties. Independent industry laboratory tests produced the following results:

	Sound Absorption Test
Bare Concrete	0.015
Carpet with conventional backing (Style A, 28 oz. face wt)	0.20
Carpet with BioCel* Attached Cushion Carpet Backing (Style A, 28 oz. face wt)	0.25

Impact Sound Transmission

Test Method ASTM E 492

Rates the so-called **insulation-from-impact** noise. The higher the Impact Insulation Class (**IIC**) value, the greater the sound insulation properties. Independent industry laboratory tests confirmed the following ratings:

	Impact Sound Transmission
Bare Concrete	34
Carpet with conventional backing (Style A, 28 oz face wt)	60
Carpet with BioCel* Attached Cushion Carpet Backing (Style A. 28 oz. face wt)	62

Note: The Carpet and Rug Institute has determined that the acoustical properties of a flooring system are not only influenced by the addition of cushion but by an increase in pile height and/or face weight.

1. "Sound Solutions: Increasing Office Through Integrated Acoustic Planning and Noise Reduction Strategies." A professional paper from American Society of Interior Designers. 1999.

For additional information:

In the U.S. and Canada
Contact Universal Textile Technologies (UTT)
204 W. Industrial Blvd, Dalton, GA 30720
706.277.3778 Fax: 706.277.1837

www.universal-textile.net
info@universal-textile.net

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