



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

NOTICE: No freedom from any patent owned by UTT or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. UTT assumes no obligation or liability for the information in this document. **NO WARRANTIES ARE GIVEN: ALL IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE ARE EXPRESSLY EXCLUDED.**

Published 987505.04082