

BIOCEL / ENVIROCEL
Attached Cushion Carpet Backing



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.”¹

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.



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