

2023 Product Performance Summary

December 2023

Conducted on a 6" Slab - No Ceiling

Product						Heavy Weight Impact Sound Level (dBA)			Deltec Test Typical Values	
	IIC	STC	Δ IIC	NRC	FIS	16lb Shot (39 3/8" drop height)	50lb Kettlebell (18" drop height)	100lb Kettlebell (18" drop height)	Force Reduction (%)	Energy Restitution (%)
Vinyl Rx	52	56	23	0.15	77	—	—	—	11.9	68.4
Desert & River	52	55	22	—	—	—	—	—	6.8	71.8
Aurora Rx	52	53	24	—	77	—	—	—	11.2	67.4
Nada Rx	54	54	23	0.10	—	—	—	—	10.6	68.0
ECOsURFACES	48	51	19	0.05	—	—	—	—	2.4	75.5
ECOnights	51	50	22	0.10	—	93	93	—	11.0	67.7
ECOfit	54	51	24	0.10	—	93	93	—	14.5	66.7
ECOfit Plus	58	51	27	0.20	—	89	89	—	35.5	51.9
ECOMax for Fitness	56	52	27	0.20	—	83	81	90	46.3	52.1
ECOMax for Live & Play Surfaces	58	51	26	0.20	—	—	—	—	74.9	44.4
ECODB	59	49	29	0.25	—	62	60	65	67.7	46.1
ECOfit-Turf	—	—	—	—	—	—	—	—	30.8	46.6
ECOfit-Turf Plus	75	54	35	0.25	—	87	88	—	47.1	41.0

All Testing was conducted over a 6" slab with no ceiling.

Glossary:

IIC: Impact Insulation Class (Structure-borne Sound, ASTM E492)

STC: Sound Transmission Class (Airborne Sound, ASTM E90)

Delta IIC: Effectiveness of Floor Coverings in Reducing IIC (Structure-borne Sound, ASTM E2179)

NRC: Noise Reduction Coefficient (Airborne Sound Absorption Within a Room, ASTM C423)

FIS: Floor Impact Sound (Impact Sound in Room with Impact, ASTM E3133)

Contact your ECOsurfaces' sales representative for more information and additional testing.

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Material	FR (%)	ER (%)
Concrete	0	77
2mm Sheet Vinyl	0	79
2.5mm LVT	0	82
VCT	0	78
Sand	83	1

Typical Results