

# Centaur Product Performance Summary

July 2025

Conducted on a 6" Slab - No Ceiling

Product	IIC	STC	Δ IIC	NRC	Heavy Weight Impact Sound Level (dBA)			Deltec Field Tester Results <small>Typical Values</small>	
					16lb Shot <small>(39 3/8" drop height)</small>	50lb Kettlebell <small>(18" drop height)</small>	100lb Kettlebell <small>(18" drop height)</small>	Force Reduction (%)	Energy Restitution (%)
Momentum	51	50	22	0.10	93	93	--	10.4	71.9
Thrive	54	53	24	0.15	93	93	--	12.6	66.8
Strive	59	54	28	0.15	89	89	--	35.4	53.7
Drive	56	52	27	0.20	83	81	90	50.2	47.9
Solace	55	55	23	0.10	--	--	--	6.0	69.4
Tenacity, Poised, Tranquil	55	52	23	0.10	--	--	--	12.1	64.5
Triple Threat	52	56	23	0.15	--	--	--	11.9	68.4
Tweed & Twill	55	53	23	0.05	--	--	--	12.0	69.0
Interval Turf (17mm)	--	--	--	--	--	--	--	30.8	46.6
Interval Turf (24mm)	75	54	35	0.25	87	88	--	47.1	41.0
Drive Turf Tile	74	55	36	0.25	81	81	90	60.3	36.9

**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)

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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*