

# Ecore 2019 Product Performance Summary

January 2019

**Conducted on a 6" Slab - No Ceiling**

| Product                     | IIC | STC | Δ IIC | NRC  | Heavy Weight Impact Sound Level (dBA) |                                      |   | Deltec Test         |                        |
|-----------------------------|-----|-----|-------|------|---------------------------------------|--------------------------------------|---|---------------------|------------------------|
|                             |     |     |       |      | 16lb Shot<br>(39 3/8" drop height)    | 35lb Kettleball<br>(18" drop height) | 100lb Plate Weight<br>(18" drop height) | Force Reduction (%) | Energy Restitution (%) |
| Roster                      | —   | —   | —     | —    | —                                     | —                                    | —                                       | 19.1                | 62.8                   |
| Bounce 2                    | 52  | 56  | 23    | 0.10 | 91                                    | —                                    | —                                       | 11.9                | 68.4                   |
| Basic Rolls & Tiles         | 51  | 50  | 22    | 0.10 | 87                                    | 93                                   | —                                       | 10.4                | 71.9                   |
| Motivate                    | 54  | 51  | 24    | 0.15 | 89                                    | 94                                   | —                                       | 14.4                | 66.8                   |
| Rally                       | 58  | 51  | 27    | 0.15 | 81                                    | 89                                   | —                                       | 35.4                | 53.7                   |
| Beast                       | 53  | 54  | 22    | 0.05 | 85                                    | 90                                   | —                                       | 11.4                | 72.2                   |
| Monster                     | 58  | 53  | 29    | 0.10 | 71                                    | 80                                   | 92                                      | 38.1                | 53.5                   |
| UltraTile                   | 56  | 52  | 27    | 0.20 | 68                                    | 73                                   | 88                                      | 50.2                | 47.9                   |
| SmashTile                   | 59  | 49  | 29    | 0.25 | 53                                    | 58                                   | 62                                      | 67.7                | 46.1                   |
| Speed & Agility Turf (8mm)  | —   | —   | —     | —    | —                                     | —                                    | —                                       | 36.9                | 46.1                   |
| Speed & Agility Turf (15mm) | 74  | 51  | 36    | 0.25 | —                                     | —                                    | —                                       | 53.4                | 40.2                   |
| TurfX                       | —   | —   | —     | —    | —                                     | —                                    | —                                       | 64.4                | 28.4                   |
| RubberX                     | —   | —   | —     | —    | —                                     | —                                    | —                                       | 41.9                | 43.0                   |

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).
- dBA: Common measure of how loud a sound is. Higher numbers mean louder sounds.

Contact your Ecore Athletic sales representative for more information and additional testing.  
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