

# Racing / Training Track Sand Spec

Engineered for speed, drainage, and concussion control on flat tracks.

## Sand Specification

Specification	Recommended Range
Sand Type	Washed silica, sub-angular
Particle Size (D50)	0.30 – 0.60 mm (medium to medium-coarse)
Gradation	Well-graded for high-speed shear resistance
Fines Content (<0.075 mm)	< 4% by weight
Particle Shape	Sub-angular
Hardness (Mohs)	≥ 6.5 silica
Footing Depth	3.5 – 5.0 inches depending on phase/cushion design
Base	Engineered multi-layer base with positive drainage
Moisture Target	10% – 14% — irrigation + LOCK for consistency
Recommended Additives	FIBR for structural integrity at speed; FLEX for concussion control; LOCK for moisture stability.

## Why This Spec Works

- Coarser median grain holds together at full gallop without rutting.
- FIBR maintains structural integrity under sustained high-speed shear.
- FLEX reduces concussion on tendons and bone during repetitive gallop work.

## Outdoor-Specific Considerations

- Multi-layer base with cushion + pad system; do not skip drainage engineering.
- Daily harrowing and float schedule is non-negotiable.

## Common Failure Modes to Avoid

- **Inconsistent depth:** directly correlates to soft-tissue injury rates.

- **Inadequate drainage:** track unusable for days after rain.

### **Need a tuned ArenaSpec™ for your facility?**

Every arena is different. Climate, base condition, traffic, and discipline intensity all change the ideal blend. Request a custom ArenaSpec™ Report Card at [performancefooting.com](http://performancefooting.com) or call 877-835-0878.

This spec sheet reflects general industry guidance for outdoor arenas built on a properly engineered base. It is not a substitute for site-specific testing. Performance Footing® and ArenaSpec™ are trademarks of Performance Footing.