BrockFILL High-Moisture Climate

Due to the hydrophilic nature of wood, BrockFILL readily absorbs water and the cooling effect provided by this is well-documented. However, it's important to understand the effects of this moisture beyond field temperature. Brock has therefore focused on researching the mechanical effects of an infill that's experienced consistent rain events; the primary focus of this testing has been through collecting impact and particle size analysis data.

Testing and Results:

To evaluate potential particle deterioration, BrockFILL samples were fully saturated before simulating infill wear. After conditioning, a test system of BrockFILL, sand, turf, and PowerBase YSR was installed in a Lisport Classic machine to simulate field wear; the tester was then cycled 1,250 times, simulating approximately 6 months of regular field use while fully saturated. Under these conditions, the infill showed no signs of increased deterioration. These results are displayed in Figure 1.

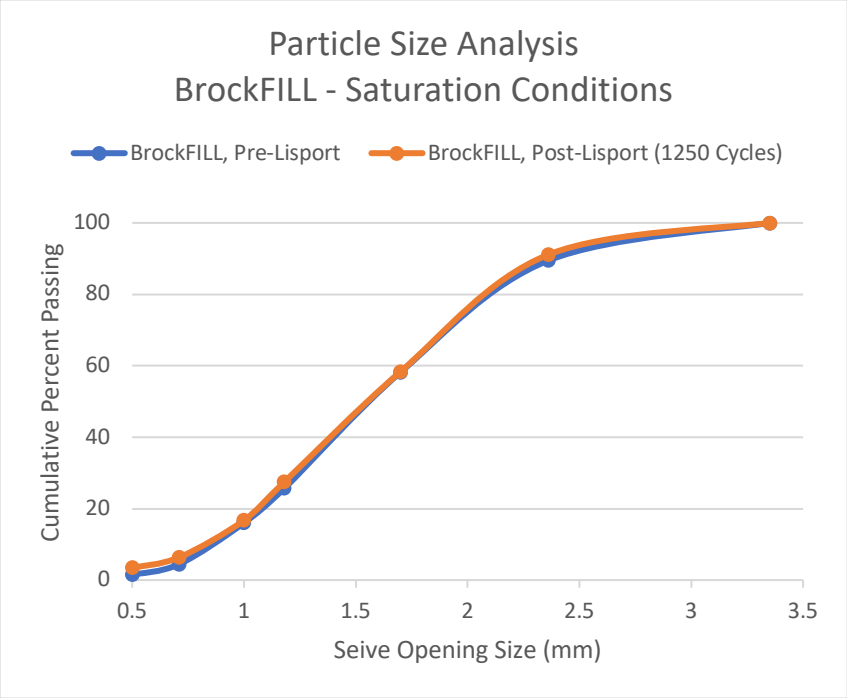

Figure 1. BrockFILL Particle Size Analysis

Additionally, impact testing was performed according to ASTM F355-16 over PowerBase YSR; results displayed in Figure 2. These testing results show that a field that has been fully saturated, even for extended periods, will not experience accelerated deterioration and will maintain its ability to protect athletes.