





rank/evaluate surfaces. To do this, two tribometers, (the BOT-3000E (BOT) (Regan Scientific Instruments, Southlake, TX, USA) and English XL Variable Incidence Tribometer (XL) (Excel Tribometers, Chesapeake, VA, USA)) were used to take slip resistance measurements using the four reference surfaces designated in the ASTM F2508 standard. Measurements for the BOT were taken under three conditions: (1) styrenebutadienerubber (SBR) test foot with distilled water and surfactant (consistent with ANSI/NFSI B101.3), (2) SBR test foot with distilled water, and (3) Neolite test foot with distilled water. Measurements for the XL were taken using a Neolite test foot with distilled water. Results indicate that the vinyl composite tile was the reference surface nearest to the ANSI threshold for high slip resistance but fell approximately 11 % below the threshold value of 0.42. The two most slippery reference surfaces (granite and porcelain) fell well below the ANSI threshold for high slip resistance, while the most slip resistant (ceramic tile) was well above the threshold. Unexpectedly, we also found a strong linear correlation ( $R^2 = 0.99$ ) between the measurements from the XL versus the BOT with SBR and surfactant test condition, which allowed for conversion of slip resistance readings between the two tribometers under these conditions. These results provide new data that allow aspects of the ASTM and ANSI standards to be directly



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