

Staron® used on commercial and residential floors should provide a safe walking surface. By measuring the coefficient of friction (COF), a quantitative number can be used to express the degree of slip resistance of a floor surface. When the coefficient of friction is measured from a resting position, it is called the "static coefficient of friction" (SCOF).

The American Society for Testing and Materials (ASTM) currently recognizes several standard methods for measuring coefficient of friction, depending on the application. One of the most commonly referenced methods for determining slip resistance is ASTM C1028(Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method). This is the most common test used to measure slip resistance in the field and uses a portable horizontal pull meter. This test method may be used under both wet and dry conditions and uses Neolite heel assemblies.

The Occupational Safety and Health Administration(OSHA) recommends that walking surfaces have a static coefficient of friction of 0.5. A research project sponsored by the Architectural and Transportation Barriers Compliance Board (Access Board) conducted tests with persons with disabilities and concluded that a higher coefficient of friction was needed by such persons. A static coefficient of friction of 0.6 is recommended for accessible routes and 0.8 for ramps. The Americans with Disabilities Act (ADA) recommended that the COF standard should be raised to 0.6, but it remains only a suggestion, and is not a law.

The guidelines recognize that the static coefficient of friction is affected by floor finishes, surface coatings, contaminants, water and other environmental variables. It is partly for this reason that all recommended values are given for a dry state only. Staron® Product are tested to ASTM C-1028, Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method, which is one of the test methods by the ADA. The results of the test are as follows:

Finish	State	SCOF
Product finish	Dry	0.70
	Wet	0.60

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Depending on the user's particular application, all necessary measures must be taken to verify and test the adequacy for such needs or application. Any information or recommendation herein is strictly for purposes of reference and as such, Samsung SDI assumes no responsibility for its suitability or accuracy or the use of such information for products other than Samsung Staron® solid surfaces & Radianz® quartz surfaces.