



3. TECHNICAL DATA

Physical Properties	ASTM Test	Industry Standards	Results
Water Absorption	C373	0.5% Maximum	≤ 0.1%
Thickness Dimension	C499	Range 0.04 Maximum	≤ 0.04
Facial Dimension	C499	±0.25%	≤ 0.25%
Warpage Average	C485	± 0.40% on any edge	≤ ± 0.40%
Warpage Average	C485	± 0.40% on diagonal	≤ ± 0.40%
Wedging Average	C502	± 0.25%	≤ ± 0.25%
Bond Strength	C482	50 psi or greater	> 200 psi
Deep Abrasion	C1243	≤175 mm ³	<150 mm ³
Hardness (Mohs)		No Requirement	≥ 7
Frost Resistance (Freeze/Thaw)	C1026	No sample must show alterations to surface	No cracking or spalling occurred
Chemical Resistance	C650	No Requirement	Class A
Breaking Strength	C648	250 lbf or greater	≥ 350 lbf
Coefficient of Friction (Static)	C1028	No requirement	≥ 0.80 Dry ≥ 0.60 Wet
Coefficient of Friction (Dynamic)	DCOF Acutest sm (wet)	≥ 0.42*	≥ 0.50

Data taken from representative colored body collection. Individual product testing can be conducted by request.

Coefficient of Friction: All values given are for matte or honed material. No values are given for polished material. Nasco does not recommend polished surfaces in area subject to exposure from grease, oil or water.

4. INSTALLATION

All installation work using Nasco tiles will conform to the standards set forth in the latest version of ANSI A108/118 and/or the TCNA Handbook for Ceramic Tile installations.

Installation or setting materials:

Movement joints shall be provided throughout the tile and work will conform to ANSI Specification A108.01-3.7; A108.02 – 4.4. and TCNA Details EJ171.

Setting materials used will conform to the ANSI 118.4 standard or greater and be recommended by the selected manufacturer for the installation & setting materials for ceramic or porcelain tile based on the application requirements.

5. WARRANTY

Nasco guarantees that its products will be free of manufacturing defects and they will meet or exceed the performance specifications set forth in ANSI 137.1.