Siloam Stone Technical Data

Product Names: Sienna Buff & Sienna Grey

Geological Designation: Dakota Formation Stratified Sandstone

Color Range: Buff – Gray base with Burnt Sienna, Brown, Gold, Rust and/or Rose Accents

Physical Properties:
Absorption \( (\text{ASTM C97}) \) – 3.19%
Density / Specific Gravity \( (\text{ASTM C97}) \) \((145 - 150 \text{ lbs. /cu. ft.}) / (2.32 - 2.39 \text{ grams /cu. cm.})\)
Compressive Strength \( (\text{ASTM C170}) \) – 21,400 – 22,800 PSI
Modulus of Rupture \( (\text{ASTM C99}) \) – 2431 PSI
Flexural Strength \( (\text{ASTM C880}) \) – 1200 - 1650 PSI
Freeze / Thaw \( (\text{ASTM C67}) \) – 0.01%

Chemical Properties:
Silica (SiO2) \( 94.68 - 94.8\% \)
Alumina (Al2O3) \( 1.13 - 3.06\% \)
Iron (Fe2O3) \( 0.43 - 0.53\% \)
Lime (CaO) \( 0.3 - 0.67\% \)
Soda (Na2O) \( 0.01\% \)
Magnesia (MgO) \( 0.01\% \)
LOI @ 950 C \( 0.73 - 1.82\% \)

Above data is provided as a technical reference point only. Standard variations in the natural stone formation may apply.