GraniteCrete Test Results

Testing Completed January 28, 2013
Revised May 1, 2017

The following are test results conducted by Kleinfelder Laboratory located in Hayward, California. The results were submitted on November 30, 2012 and were prepared as per our Installation Instructions using our “2 bag mix”:

1. UNCONFINED COMPRESSIVE STRENGTH: ASTM D558-635 psi, ASTM D558 (modified effort)-837 psi.
2. RESISTANCE VALUE (R-VALUE): ASTM D2844-R value at 300 psi Exudation-95
3. HYDRAULIC CONDUCTIVITY (PERMEABILITY): ASTM D5084--

88% density @ 7 days – 5.4 x10 $^{-4}$ cm/sec = 1.28 x 10 $^{-2}$ in/min=0.768 inches per hour

88% density @ 28 days – 7.6 x10 $^{-4}$ cm/sec = 1.80 x 10 $^{-2}$ in/min=1.08 inches per hour

92% density @ 7 days – 5.5 x10 $^{-4}$ cm/sec = 1.30 x 10 $^{-2}$ in/min=0.78 inches per hour

92% density @ 28 days – 6.0 x10 $^{-4}$ cm/sec = 1.42 x 10 $^{-2}$ in/min=0.852 inches per hour

4. STATIC COEFFICIENT OF FRICTION: ASTM C1028-Wet, Cf=0.71, Dry, Cf=0.85
5. SOLAR REFLECTANCE INDEX (NATURAL COLOR): ASTM C1549-SRI 42
6. MAXIMUM DRY DENSITY: ASTMD D558 Maximum Dry Density 127.5 pcf, Optimum Water Content 9.6%. ASTM D558 (Modified effort) Maximum Dry Density 132.9 pcf, Optimum Water Content 6.7%