



CORPORATION OF AMERICA

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TECHNICAL DATA SHEET FOR ELASTIZELL EF (Engineered Fill)

PROPERTIES: Elastizell EF (Engineered Fill) shall meet the following:

| | Class II | Class III | Class IV |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Maximum Cast Density | 30 pcf | 36 pcf | 42 pcf |
| Minimum Compressive Strength @ 28 days | 40 psi | 80 psi | 120 psi |
| Coefficient of Permeability (cm/sec) @ 2.5 psi (17.2 kPa) @ 18.0 psi (124.1 kPa) | 1 x 10 ⁻⁵ 1 x 10 ⁻⁵ | 1 x 10 ⁻⁵ 1 x 10 ⁻⁵ | 1 x 10 ⁻⁵ 1 x 10 ⁻⁵ |
| Frost Heave per BRRL LR90 (250 hour exposure) 11.43 cm (4.5") high x 10.16 cm (4") diameter | < 1.25 cm (0.5") | < 1.25 cm (0.5") | < 1.25 cm (0.5") |
| Freeze Thaw Resistance – minimum cycles @ relative E = N/N ≥ 70% per ASTM C666 modified per Bidwell Report dated April, 1975 | n/a n/a | 50 cycles | 100 cycles |
| Long Term Water Absorption (120-day Total Immersion as % Cast Density) | 20% | 16% | 12% |
| Shear Modulus, G | 27,670 psi | - | - |
| Young's Modulus, E | 70,000 psi | - | - |
| Poisson's Ratio * | 0.20 | 0.20 | 0.20 |
| Unfractured Friction Angle | 45° | 45° | 45° |
| Fractured Friction Angle | 36° | 36° | 36° |
| Cohesion (cementitious property) | 5,760 psf | 11,520 psf | 17,280 psf |

* - Cellular concrete's Poisson's ratio is typically reported as similar to concrete. Cellular concrete is used as a lightweight fill material and is rarely loaded anywhere near failure. At these relatively low levels, no Poisson's ratio has been observed.