MaxFlow

CELLULAR CONCRETE

for GEOTECHNICAL APPLICATIONS

MAXFLOW Environmental Corporation

Technical Bulletin: MaxFlow Low-Density Cellular Concrete Mix Designs and Theoretical Predictions of Resulting Physical Properties.

Mix Design and Theoretical Physical Property Tabulation

Cast[1] Density (lb/ft^3)	Cement[2] Factor (lb/yd^3)	Preformed Foam[3] (ft^3/yd^3)	In-Service Density (lb/ft^3)	Minimum Compressive Strength (lb/in^2)	Minimum Bearing Capacity ($tons/ft^2$)
25	416	21.88	17 - 19	50	3.6
30	512	20.70	22 - 24	80	5.7
35	608	19.52	27 - 29	120	8.6
40	704	18.33	32 - 34	160	11.5
45	799	17.16	37 - 39	200	14.4
50	896	15.96	42 - 44	300	21.6

1. As determined at the point-of-placement.
2. Type I portland cement meeting ASTM C 150, used with a w/c of .45.
3. Assuming a preformed foam density of 3.25 lb/ft^3.

Note: As with all concrete mix designs, actual tests should be conducted using the available component materials to verify all theoretical physical property predictions. The cementitious product used to contemplate the physical properties as shown in the table above is Type I portland cement meeting ASTM C 150. The minimum compressive strength values shown are at 28 days of age and determined in accordance with ASTM C 495.

3148 US Highway 70 West Black Mountain, North Carolina 28711
(828) 669-4875 • (828) 669-4874 Fax
Website • www.maxflow.com