

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/ft³.

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.

MaxFlow seeks to present reliable information concerning the composition, properties and use of its products. However, (1) All advice concerning selection of any product is provided **AT NO CHARGE AND WITH NO WARRANTY**. (2) No warranty is made hereby. Products described herein are warranted to conform to MaxFlow's specifications only at the time of sale. All sales are subject to MaxFlow's standard terms and conditions, which are reproduced on the reverse side of each invoice. **ALL WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE ARE DISCLAIMED** and remedy for any breach of warranty is limited to replacement of the defective product. (3) MaxFlow assumes no responsibility for any patent liability arising from the use of any product in a process, manner or formula not designed by MaxFlow. Nothing in the listed information shall be construed as an inducement or recommendation to use any process or to produce or use any product in conflict with existing or future patents.