



METRIC CONVERSION TABLE FOR CEL CORE™ CELLULAR CONCRETE THEORETICAL MIX DESIGNS

CAST DENSITY ⁽¹⁾		CEMENT ⁽²⁾	WATER ⁽³⁾	PRE-FORMED FOAM ⁽⁴⁾		COMPRESSIVE STRENGTH ⁽⁵⁾
lbs/ft ³	kg/m ³	kg/m ³	l/m ³	kg/m ³	vol/m ³	mPa
36	575	393	154	41	0.733	1.25
38	607	417	165	40	0.715	1.61
40	639	440	170	39	0.701	1.79
42	671	464	180	38	0.685	2.14
45	719	504	196	37	0.657	2.50

1. Density as determined at the point of placement.
2. Assuming the use of Type 1 portland cement meeting ASTM C-150.
3. Using a w/c ratio = .36
4. Assuming a pre-formed foam density @ 56 kg/m³ (3.5 lbs/ft³).
5. Minimum compressive strength @ 28 days when tested in accordance with ASTM C-495.

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.