

## **CEMATRIX Cellular Concrete Compared to Industry Standards**

The following table presents a comparison of CEMATRIX Cellular Concrete to industry standards.

Cellular Concrete Class	Maximum Cast Density		Industry Stan Compressiv	dard Minimum e Strengths*	CEMATRIX <u>Minimum</u> 28-day Compressive Strength				
	kg/m³	pcf	MPa	psi	MPa	psi			
I	385	24	0.07	10	0.3	43			
П	480	30	0.28	40	0.5	72			
Ш	575	36	0.55	80	1.0	145			
IV	675	42	0.83	120	1.5	217			
V	800	50	1.10	160	2.5	362			
* As per American Concrete Institute (ACI) publication "Guide for Cast-in-Place Low Density Cellular Concrete" ACI 523.1 R-06									

The following tables present quality control data from three example projects. A review of the data indicates highly consistent densities and compressive strengths that greatly exceed the minimum requirements. These industry-leading results are achieved through extensive materials research & development, skilled quality control and operations staff, and cutting edge production equipment.

Summary of CEMATRIX Quality Control Data for Selected Projects											
Parameters	Illinois Water Reclamation Plant Lightweight Fill		Manitoba Bridge Approach Lightweight Fill		Ontario Roadway Lightweight Fill						
	Density (kg/m³)	fˈc (MPa)	Density (kg/m³)	fˈc (MPa)	Density (kg/m³)	fˈc (MPa)					
Specified Requirement	425 +/-10%	0.40 min. @28-days	425 +/-10%	0.40 min. @28-days	475 +/-10%	0.50 min. @28-days					
Minimum	400	0.88	415	0.99	441	1.05					
Maximum	448	1.62	430	1.38	456	1.69					
Average	415	1.17	424	1.18	447	1.37					
Standard Deviation	11	0.14	5	0.11	4	0.12					