

American Concrete Institute Cube Competition

Date of Competition: October 14, 2007

Judges: Victor Aviles, PE

Marcos Arocho, PE

Javier Molinari, PE

$$\text{FinalScore} = 60 \left[1 - \left| \frac{\sigma_c - 40}{40} \right| \right] + 20 \left[1 - \left| \frac{m - 230}{230} \right| \right] + 20 \left[1 - \left| \frac{\sigma_{c1} - \sigma_{c2}}{40} \right| \right]$$



American Concrete Institute®
Now offering more value to members!



School Name	Team ID	Cube Entry ID	Complies with Requirements			Mass (grams)	Cube Tested	Ultimate Load (lbf)	Ultimate Load (kN)	$\sigma_{c1,c2}$ (MPa)	σ_c (MPa)	m (grams)	Final Score	Overall Ranking
			Material	Curing	Size									
Universidad Autonoma de Nuevo Leon	UANL1	1	x	x	x	230.0	x	23360	103.910	40.265	40.149	232.1	99.481	1
		2	x	x	x	233.1	x	23225	103.310	40.033				
		3	x	x	x	233.1			-	-				
University of Illinois at Urbana Champaign	UIUCA	1	x	x	x	213.3	x	24970	111.072	43.041	41.920	213.0	94.520	3
		2	x	x	x	212.2	x	23670	105.289	40.800				
		3	x	x	x	213.5			-	-				
Universidad Iberoamericana	UIAMX	1	x	x	x	232.4	x	20985	93.346	36.172	34.582	232.7	90.046	11
		2	x	x	x	232.4	x	19140	85.139	32.991				
		3	x	x	x	233.4			-	-				
Pontificia Universidad Catolica de Chile	CHLUC	1	x	x	x	235.7	x	23865	106.157	41.136	43.579	235.3	91.731	7
		2	x	x	x	234.6	x	26700	118.768	46.023				
		3	x	x	x	235.5			-	-				
University of Missouri - Rolla	MINER	1	x	x	x	221.8	x	24400	108.537	42.058	37.594	223.1	91.323	9
		2	x	x	x	224.2	x	19220	85.495	33.129				
		3	x	x	x	223.2			-	-				
Arizona State University	AZCIM	1	x	x	x	238.0	x	25500	113.430	43.954	42.941	238.0	93.877	5
		2	x	x	x	237.3	x	24325	108.203	41.929				
		3	x	x	x	238.8			-	-				
Southern Illinois University Edwardsville	SIUE	1	x	x	x	226.1	x	25850	114.987	44.557	44.187	226.1	93.014	6
		2	x	x	x	226.0	x	25420	113.074	43.816				
		3	x	x	x	226.4			-	-				
Polytechnic University of Puerto Rico	POLY2	1	x	x	x	258.6	x	14155	62.965	24.399	25.433	258.2	74.659	18
		2	x	x	x	258.8	x	15355	68.302	26.467				
		3	x	x	x	257.4			-	-				
Polytechnic University of Puerto Rico	POLY1	1	x	x	x	271.1	x	29845	132.757	51.444	50.659	272.6	79.520	17
		2	x	x	x	271.0	x	28935	128.709	49.875				
		3	x	x	x	275.8			-	-				
University of Missouri - Rolla	JOE	1	x	x	x	222.4	x	23350	103.866	40.248	43.226	221.4	91.438	8
		2	x	x	x	220.6	x	26805	119.235	46.203				
		3	x	x	x	221.2			-	-				

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			Material	Curing	Size									
Universidad Autonoma de Nuevo Leon	UANL2	1	x	x	x	230.2	x	20850	92.745	35.939	36.197	230.2	94.022	4
		2	x	x	x	230.1	x	21150	94.080	36.456				
		3	x	x	x	230.2			-	-				
University of Missouri - Kansas City	UMKC2	1	x	x	x	302.1	x	26025	115.765	44.859	42.541	309.0	87.003	13
		2	x	x	x	307.8	x	23335	103.799	40.222				
		3	x	x	x	317.0			-	-				
University of Missouri - Kansas City	UMKC1	1	x	x	x	312.6	x	24380	108.448	42.024	45.316	309.4	81.826	16
		2	x	x	x	311.4	x	28200	125.440	48.608				
		3	x	x	x	304.4			-	-				
Tidewater Community College	TCCCT	1	x	x	x	231.0	x	21495	95.615	37.051	37.296	230.7	95.637	2
		2	x	x	x	230.4	x	21780	96.882	37.542				
		3	x	x	x	230.7			-	-				
North Carolina State University	NCSU	1	x	x	x	228.3	x	22600	100.530	38.955	46.311	225.7	82.802	15
		2	x	x	x	219.1	x	31135	138.495	53.667				
		3	x	x	x	229.7			-	-				
Universidad de Puerto Rico - Mayaguez	UPRM2	1	x	x	x	227.6	x	17260	76.776	29.751	31.078	229.7	85.265	14
		2	x	x	x	231.4	x	18800	83.627	32.405				
		3	x	x	x	230.2			-	-				
Universidad de Puerto Rico - Mayaguez	UPRM1	1	x	x	x	232.6	x	17340	77.132	29.889	36.322	232.5	87.837	12
		2	x	x	x	231.6	x	24805	110.338	42.756				
		3	x	x	x	233.1			-	-				
Pennsylvania State University	LEON	1	x	x	x	246.3	x	23905	106.335	41.205	43.687	246.6	90.548	10
		2	x	x	x	247.4	x	26785	119.146	46.169				
		3	x	x	x	245.9			-	-				