

American Concrete Institute Cube Competition

Date of Competition: November 6, 2005

Judges: Joe Hug

Eric Marlinghaus

Kelly Rotert

Joe Clendenen

Randy Timi

Joe Garza



$$FinalScore = 60 \left[1 - \left| \frac{\sigma_c - 35}{35} \right| \right] + 20 \left[1 - \left| \frac{m - 205}{205} \right| \right] + 20 \left[1 - \left| \frac{\sigma_{c1} - \sigma_{c2}}{35} \right| \right]$$



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School Name	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									
Instituto Tecnológico de Durango	TECNO-1	X	X	X	213.1		-	-	-	20.340	212.5	74.034	17
	TECNO-2	X	X	X	210.7	X	11850	52.711	20.426				
	TECNO-3	X	X	X	213.8	X	11750	52.267	20.253				
Universidad Autónoma Metropolitana	METRO-1	X	X	X	222.8		-	-	-	37.490	221.8	93.990	6
	METRO-2	X	X	X	221.5	X	21800	96.971	37.576				
	METRO-3	X	X	X	221.2	X	21700	96.526	37.404				
Universidad Autónoma de Nuevo León	UANL1-1	X	X	X	204.0		-	-	-	34.560	203.3	98.784	1
	UANL1-2	X	X	X	203.5	X	20200	89.854	34.819				
	UANL1-3	X	X	X	202.4	X	19900	88.520	34.301				
Universidad Autónoma de Nuevo León	UANL2-1	X	X	X	202.9		-	-	-	39.990	202.3	90.884	10
	UANL2-2	X	X	X	203.6	X	23350	103.866	40.248				
	UANL2-3	X	X	X	200.3	X	23050	102.532	39.731				
Instituto Tecnológico de Durango	ITD-1				-		-	-	-	0.000	0.0	DQ	DQ
	ITD-2				-	X	0	0.000	0.000				
	ITD-3				-	X	0	0.000	0.000				
Purdue University	21303-1	X	X	X	204.6		-	-	-	40.033	205.5	90.194	11
	21303-2	X	X	X	206.1	X	22650	100.752	39.042				
	21303-3	X	X	X	205.7	X	23800	105.868	41.024				
Southern Illinois University Edwardsville	SIUE1-1	X	X	X	214.4		-	-	-	39.343	214.7	87.228	12
	SIUE1-2	X	X	X	214.5	X	25050	111.428	43.178				
	SIUE1-3	X	X	X	215.1	X	20600	91.633	35.508				
University of Missouri Columbia	UMCMO-1	X	X	X	202.2		-	-	-	36.068	202.6	94.241	5
	UMCMO-2	X	X	X	203.6	X	19050	84.739	32.836				
	UMCMO-3	X	X	X	202.0	X	22800	101.419	39.300				
Universidad Iberoamericana	PANMX-1	X	X	X	202.5		-	-	-	35.637	202.5	98.513	2
	PANMX-2	X	X	X	202.7	X	20750	92.301	35.767				
	PANMX-3	X	X	X	202.2	X	20600	91.633	35.508				
University of California, Berkeley	GoCal-1	X	X	X	197.1		-	-	-	46.023	199.2	75.617	14
	GoCal-2	X	X	X	201.9	X	24200	107.647	41.713				
	GoCal-3	X	X	X	198.7	X	29200	129.888	50.332				

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		Material	Curing	Size									
University of California, Berkeley	ChiEp-1	X	X	X	203.1		-	-	-	55.589	201.9	63.906	20
	ChiEp-2	X	X	X	200.7	X	32000	142.343	55.158				
	ChiEp-3	X	X	X	201.8	X	32500	144.567	56.020				
Universidad de Puerto Rico, Mayaguez Campus	RUM1-1	X	X	X	196.7		-	-	-	32.104	196.3	93.943	7
	RUM1-2	X	X	X	196.5	X	18750	83.404	32.319				
	RUM1-3	X	X	X	195.8	X	18500	82.292	31.888				
Universidad de Puerto Rico, Mayaguez Campus	RUM2-1	X	X	X	199.9		-	-	-	34.301	200.7	98.084	3
	RUM2-2	X	X	X	200.8	X	20050	89.187	34.560				
	RUM2-3	X	X	X	201.3	X	19750	87.852	34.043				
Tidewater Community College	TCCCT-1	X	X	X	205.0		-	-	-	38.611	205.0	93.610	8
	TCCCT-2	X	X	X	204.9	X	22500	100.085	38.783				
	TCCCT-3	X	X	X	205.2	X	22300	99.195	38.438				
University of Missouri-Rolla	UMR1-1	X	X	X	200.7		-	-	-	22.408	199.2	74.499	16
	UMR1-2	X	X	X	199.4	X	14700	65.389	25.338				
	UMR1-3	X	X	X	197.5	X	11300	50.265	19.478				
Middle Tennessee State University	MTSU1-1	X	X	X	205.1		-	-	-	18.185	204.8	70.560	19
	MTSU1-2	X	X	X	204.7	X	10250	45.594	17.668				
	MTSU1-3	X	X	X	204.5	X	10850	48.263	18.702				
Tecnologico de Monterrey	TECM1-1				-		-	-	-	0.000	0.0	DQ	DQ
	TECM1-2				-	X	0	0.000	0.000				
	TECM1-3				-	X	0	0.000	0.000				
Tecnologico de Monterrey	TECM2-1				-		-	-	-	0.000	0.0	DQ	DQ
	TECM2-2				-	X	0	0.000	0.000				
	TECM2-3				-	X	0	0.000	0.000				
University of Missouri - Kansas City	UMKC1-1	X	X	X	275.6		-	-	-	24.476	278.9	71.302	18
	UMKC1-2	X	X	X	279.9	X	12450	55.380	21.460				
	UMKC1-3	X	X	X	281.2	X	15950	70.949	27.493				
University of Illinois at Urbana Champaign	UIUC1-1	X	X	X	188.2		-	-	-	46.583	189.3	74.722	15
	UIUC1-2	X	X	X	191.2	X	29000	128.998	49.987				
	UIUC1-3	X	X	X	188.5	X	25050	111.428	43.178				

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		Material	Curing	Size									
University of Illinois at Urbana Champaign	UIUC2-1	X	X	X	205.1		-	-	-	42.101	203.9	85.309	13
	UIUC2-2	X	X	X	201.7	X	23200	103.199	39.990				
	UIUC2-3	X	X	X	205.0	X	25650	114.097	44.213				
Pennsylvania State University	PSU01-1	X	X	X	206.5		-	-	-	38.912	206.0	91.666	9
	PSU01-2	X	X	X	206.0	X	23350	103.866	40.248				
	PSU01-3	X	X	X	205.6	X	21800	96.971	37.576				
Pennsylvania State University	PSU02-1	X	X	X	206.1		-	-	-	36.973	206.6	95.381	4
	PSU02-2	X	X	X	206.7	X	20900	92.968	36.025				
	PSU02-3	X	X	X	206.9	X	22000	97.861	37.921				