

American Concrete Institute Cube Competition

Competition Date: November 8, 2009

Judges: _____

$$\text{FinalScore} = 50 \left[1 - \left| \frac{\sigma_c - 50}{50} \right| \right] + 20 \left[1 - \left| \frac{m - 270}{270} \right| \right] + 30 \left[1 - \left| \frac{\sigma_{C1} - \sigma_{C2}}{50} \right| \right]$$



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 León	UANL1	1	x	x	x	269.8	x	28120	125.084	48.470	47.514	269.9	96.356	4
		2	x	x	x	269.9	x	27010	120.146	46.557				
		3	x	x	x	269.9			-	-				
Universidad Autonoma de Nuevo León	UANL2	1	x	x	x	270.8	x	24060	107.024	41.472	43.545	271.1	90.977	14
		2	x	x	x	271.5	x	26465	117.722	45.617				
		3	x	x	x	270.9			-	-				
University of Utah	UofU9	1	x	x	x	270.2	x	28800	128.109	49.642	44.829	270.6	89.008	19
		2	x	x	x	270.8	x	23215	103.265	40.015				
		3	x	x	x	270.9			-	-				
Istanbul Technical University	ITUCE	1	x	x	x	264.7	x	26695	118.745	46.014	47.565	267.1	95.489	6
		2	x	x	x	268.9	x	28495	126.752	49.117				
		3	x	x	x	267.8			-	-				
Missouri University of Science and Technology	MST1	1	x	x	x	265.6	x	32445	144.323	55.925	57.610	264.6	89.968	17
		2	x	x	x	265.0	x	34400	153.019	59.295				
		3	x	x	x	263.3			-	-				
United States Military Academy at West Point	USMA	1	x	x	x	268.9	x	42025	186.937	72.438	75.704	268.9	70.297	34
		2	x	x	x	269.7	x	45815	203.795	78.971				
		3	x	x	x	268.2			-	-				
University of Arkansas	RZBKS	1	x	x	x	268.3	x	27555	122.571	47.496	49.328	269.9	97.126	1
		2	x	x	x	270.1	x	29680	132.023	51.159				
		3	x	x	x	271.5			-	-				
UTPL	UTPL	1	x	x	x	268.9	x	17075	75.953	29.432	36.361	269.5	78.012	33
		2	x	x	x	269.7	x	25115	111.717	43.290				
		3	x	x	x	270.0			-	-				
North Carolina State University	Wolf	1	x	x	x	268.8	x	31030	138.028	53.486	53.228	269.0	96.392	3
		2	x	x	x	268.7	x	30730	136.694	52.969				
		3	x	x	x	269.7			-	-				
North Carolina State University	Pack3	1	x	x	x	267.3	x	32535	144.723	56.080	58.666	267.7	88.062	20
		2	x	x	x	267.5	x	35535	158.068	61.251				
		3	x	x	x	268.3			-	-				
Southern Illinois University Edwardsville	SIUE4	1	x	x	x	290.5	x	36275	161.359	62.527	57.188	292.3	84.755	25
		2	x	x	x	292.6	x	30080	133.803	51.849				
		3	x	x	x	293.8			-	-				

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			Material	Curing	Size									
Southern Illinois University Edwardsville	SIUEM	1	x	x	x	266.1	x	47990	213.470	82.720	86.460	265.1	58.690	35
		2	x	x	x	264.7	x	52330	232.775	90.201				
		3	x	x	x	264.6			-	-				
Middle Tennessee State Univ.	mtsu1	1	x	x	x	269.2	x	33850	150.572	58.347	59.123	269.3	89.897	18
		2	x	x	x	269.8	x	34750	154.576	59.898				
		3	x	x	x	269.0			-	-				
Middle Tennessee State Univ.	mtsu2	1	x	x	x	268.6	x	38020	169.121	65.535	58.528	268.4	82.942	28
		2	x	x	x	268.8	x	29890	132.957	51.521				
		3	x	x	x	267.7			-	-				
University of Sherbrooke	USHER	1	x	x	x	272.8	x	27275	121.325	47.014	47.914	271.4	96.732	2
		2	x	x	x	269.0	x	28320	125.974	48.815				
		3	x	x	x	272.3			-	-				
Pontifical Catholic University of Chile	AVE12	1	x	x	x	281.6	x	32185	143.166	55.477	56.778	282.2	90.760	15
		2	x	x	x	282.3	x	33695	149.883	58.080				
		3	x	x	x	282.6			-	-				
University of Missouri at Kansas City	UMKC	1	x	x	x	311.9	x	38190	169.878	65.828	66.125	311.5	80.444	32
		2	x	x	x	311.4	x	38535	171.412	66.422				
		3	x	x	x	311.3			-	-				
Missouri University of Science and Technology	MST2	1	x	x	x	259.8	x	31410	139.719	54.141	55.399	264.4	92.676	12
		2	x	x	x	264.1	x	32870	146.213	56.658				
		3	x	x	x	269.4			-	-				
Tidewater Community College	TCCCT	1	x	x	x	270.5	x	19175	85.295	33.052	36.465	271.8	82.235	29
		2	x	x	x	272.8	x	23135	102.910	39.878				
		3	x	x	x	272.2			-	-				
San Jose State University	SJSU!	1	x	x	x	269.7	x	22690	100.930	39.111	38.408	268.9	87.487	23
		2	x	x	x	268.1	x	21875	97.305	37.706				
		3	x	x	x	269.0			-	-				
University of Puerto Rico Mayagüez	UPRM1	1	x	x	x	270.7	x	31575	140.453	54.425	52.745	270.8	95.178	7
		2	x	x	x	271.0	x	29625	131.779	51.064				
		3	x	x	x	270.8			-	-				
University of Puerto Rico Mayagüez	UPRM2	1	x	x	x	269.8	x	31775	141.342	54.770	54.400	270.2	95.143	8
		2	x	x	x	271.1	x	31345	139.430	54.029				
		3	x	x	x	269.7			-	-				

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			Material	Curing	Size									
Arizona State University	ASU1	1	x	x	x	265.6	x	32940	146.524	56.778	57.657	265.9	90.982	13
		2	x	x	x	266.3	x	33960	151.062	58.536				
		3	x	x	x	265.7			-	-				
University of Nevada, Las Vegas	LVAC1	1	x	x	x	270.2	x	25480	113.341	43.920	44.419	270.7	93.768	11
		2	x	x	x	270.0	x	26060	115.921	44.919				
		3	x	x	x	271.9			-	-				
University of Nevada, Las Vegas	UNLV2	1	x	x	x	270.6	x	26820	119.301	46.229	46.945	269.2	96.024	5
		2	x	x	x	268.4	x	27650	122.993	47.660				
		3	x	x	x	268.5			-	-				
University of Texas at Arlington	UTACE	1	x	x	x	278.7	x	21165	94.147	36.482	36.301	278.9	85.421	24
		2	x	x	x	279.7	x	20955	93.212	36.120				
		3	x	x	x	278.4			-	-				
Villanova University	ANOVA	1	x	x	x	283.8	x	26910	119.702	46.384	48.031	282.6	95.126	9
		2	x	x	x	284.2	x	28820	128.198	49.677				
		3	x	x	x	279.7			-	-				
University of Illinois at Urbana Champaign	UIUC1	1	x	x		267.5	x	32415	144.189	55.873	57.403	266.7	DQ	DQ
		2	x	x		266.7	x	34190	152.085	58.933				
		3	x	x	x	265.8			-	-				
University of Illinois at Urbana Champaign	UIUC2	1	x	x	x	262.9	x	35445	157.667	61.096	59.011	261.5	87.859	22
		2	x	x	x	261.4	x	33025	146.903	56.925				
		3	x	x	x	260.3			-	-				
University of Kansas	KU#1	1	x	x	x	272.0	x	34235	152.285	59.011	55.542	270.5	90.255	16
		2	x	x	x	272.0	x	30210	134.381	52.073				
		3	x	x	x	267.7			-	-				
University of Kansas	KU#2	1	x	x	x	271.2	x	37815	168.210	65.181	61.044	271.8	83.860	27
		2	x	x	x	271.7	x	33015	146.858	56.908				
		3	x	x	x	272.5			-	-				
Louisiana State University	LSUT1	1	x	x	x	283.8	x	20015	89.031	34.500	40.360	284.9	82.224	30
		2	x	x	x	283.8	x	26815	119.279	46.221				
		3	x	x	x	287.1			-	-				
Louisiana State University	LSUT2	1	x	x	x	292.5	x	25500	113.430	43.954	39.132	291.0	81.788	31
		2	x	x	x	290.9	x	19905	88.542	34.310				
		3	x	x	x	289.7			-	-				

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			Material	Curing	Size									
University of South Carolina	USC09	1	x	x	x	278.7	x	52895	235.289	91.175	91.666	278.2	57.141	36
		2	x	x	x	278.3	x	53465	237.824	92.157				
		3	x	x	x	277.4			-	-				
University of Houston	UH1	1	x	x	x	250.7	x	24245	107.847	41.791	40.709	251.3	88.029	21
		2	x	x	x	253.2	x	22990	102.265	39.628				
		3	x	x	x	250.1			-	-				
University of Houston	UH2	1	x	x	x	263.9	x	30205	134.359	52.064	49.117	261.6	94.956	10
		2	x	x	x	261.8	x	26785	119.146	46.169				
		3	x	x	x	259.1			-	-				
British Columbia Institute of Technology	CAN#1	1	x	x	x	288.1	x	36435	162.071	62.803	56.490	287.7	84.621	26
		2	x	x	x	288.7	x	29110	129.488	50.177				
		3	x	x	x	286.5			-	-				
Oregon State	3AOSY	1				293.0	x	35085	156.066	60.476	60.312	293.0	DQ	DQ
		2				292.8	x	34895	155.221	60.148				
		3				293.1			-	-				