

Fall 2015 Pervious Concrete Competition

Sponsored by the American Concrete Institute

Competition Date: 8-Nov-2015

Judges: (head judge) Bret Robertson



$$FinalScore = (0.40)(P) + (0.40)(S) + (0.20)(R)$$

School Name	Team ID	Rule Compliance			Weight (g)	Avg Length (mm)	Avg Diameter (mm)	Permeability Time (seconds)	Split Tensile Load (kN)	C	FA	SF	TC (kg)	Report Score (%)	Unit Weight (kg/m ³)	Split Tensile Strength (MPa)	Permeability (Falling Head) cm/s	CE	Permeability Ranking	Split Tensile Ranking	Report Ranking	CE Ranking	Performance Score	Perform Ranking
		Material	Curing	Size																				
Tecnologico de Costa Rica	ACICO	X	X	X	2427.0	152.0	102.0	14.9	64.6				0.00	86	1954.1	2.65	0.871	DQ	32	5	17	DQ	18.20	10
Texas A&M University	AGGIE	X	X	X	2196.0	150.3	102.0	14.3	42.7				0.00	62	1788.1	1.77	0.907	DQ	30	29	37	DQ	31.00	43
University of Nebraska Kearney	APEX1	X	X	X	2371.6	155.0	101.0	16.0	46.2	225	75		262.50	90	1909.8	1.88	0.833	0.087	33	26	10	16	25.60	24
University of Alabama	BEAST	X	X	X	2282.8	153.0	102.0	10.3	34.3				0.00	46	1825.9	1.40	1.266	DQ	22	34	45	DQ	31.40	44
Valparaiso University	CRSDR	X	X	X	2386.0	154.0	101.0	17.9	44.8	135	33	25	201.50	69	1933.8	1.83	0.744	0.166	37	27	35	8	32.60	47
University of Colorado Boulder	CUBLD	X	X	X	2078.5	155.0	101.5	6.6	8.8	99	60	40	209.00	43	1657.3	0.36	2.004	0.078	9	47	46	18	31.60	45
Istanbul Technical University	DBITU	X	X	X	2363.2	152.6	103.8	8.1	38.2	288	32	10	324.00	90	1830.0	1.53	1.544	0.070	17	32	10	19	21.60	13
Arizona State University	DEVIL	X	X	X	2477.5	155.0	101.7	35.7	62.0				0.00	40	1967.7	2.51	0.369	DQ	46	10	47	DQ	31.80	46
University of Southern Indiana	EAGLE	X	X	X	2316.8	148.0	97.0	12.6	49.0				0.00	49	2118.3	2.17	1.126	DQ	27	19	44	DQ	27.20	34
FES Aragon UNAM	FESAA	X	X	X	2378.0	151.0	100.0	13.9	66.1	182	75	43	305.50	88	2005.1	2.79	0.974	0.095	29	3	13	15	15.40	2
FES Aragon UNAM	FESAB	X	X	X	2278.3	148.8	101.0	10.6	61.7	146	60	34	244.00	80	1911.1	2.61	1.235	0.222	24	7	25	5	17.40	7
Ryerson University	FMTKT	X	X	X	2393.4	153.0	101.0	9.8	77.8	290		25	340.00	92	1952.5	3.20	1.353	0.110	19	1	8	14	9.60	1
Universidad Rafael Landívar Quetzaltenango	GUATE	X	X	X	2281.5	156.0	102.0	12.3	42.6	316			316.00	88	1789.8	1.70	1.069	0.058	28	31	13	22	26.20	29
Universidad Iberoamericana	IBERO	X	X	X	2275.0	150.0	101.0	17.9	48.3	190	44	26	264.00	92	1893.0	2.03	0.738	0.081	38	22	8	17	25.60	24
Instituto Politecnico Nacional	IPN01	X	X	X	2161.1	150.3	100.0	10.5	53.7				0.00	57	1830.7	2.28	1.279	DQ	21	16	38	DQ	22.40	17
Instituto Politecnico Nacional	IPNMX	X	X	X	1865.5	147.0	99.6	4.0	15.1	146	20	34	224.00	83	1628.8	0.66	3.362	0.197	3	44	21	7	23.00	18
Instituto Tecnológico de La Paz	ITLP1	X	X	X	2423.2	154.0	100.4	29.4	53.9				0.00	76	1987.5	2.22	0.459	DQ	43	18	29	DQ	30.20	40
University of Missouri Kansas City	KCROO	X	X	X	2424.2	156.2	97.5	18.3	54.9	441		65	571.00	75	2078.7	2.29	0.787	0.010	35	15	31	33	26.20	28
University of Nebraska Kearney	LOPER	X	X	X	2460.6	156.0	100.0	20.8	54.4	258	86		301.00	80	2008.3	2.22	0.657	0.053	39	17	25	23	27.40	35
Missouri University of Science and Technology	MSTAA	X	X	X	2382.0	152.5	102.0	11.0	63.9	211	45	29	291.50	81	1911.5	2.61	1.181	0.125	26	6	24	10	17.60	9
Missouri University of Science and Technology	MSTBB	X	X	X	2326.8	156.0	102.0	7.4	43.5	211	45	29	291.50	71	1825.3	1.74	1.770	0.124	12	30	34	11	23.60	19
Northern Arizona University	NAUCE	X	X	X	2476.0	156.0	102.5	19.9	47.5	270	65		302.50	85	1923.5	1.89	0.653	0.045	41	25	20	26	30.40	41
North Carolina State University	NCSUR	X	X	X	2461.6	155.0	101.7	31.5	57.3	321	43		342.50	75	1955.0	2.32	0.418	0.024	44	12	31	31	28.60	38
North Carolina State University	NCSUW	X	X	X	2079.0	157.0	101.0	5.0	24.7	230			230.00	74	1652.8	0.99	2.685	0.219	4	39	33	6	23.80	21
New Jersey Institute of Technology	NJITA	X	X	X	2093.0	151.0	100.0	3.6	13.2				0.00	53	1764.8	0.56	3.756	DQ	1	45	43	DQ	27.00	33
New Jersey Institute of Technology	NJNWC	X	X	X	2547.0	150.0	102.0	34.0	55.2	222	74		259.00	87	2078.0	2.30	0.380	0.050	45	14	15	24	26.60	30
University of Manitoba	PORUS	X	X	X	2518.1	150.0	101.5	38.2	62.4	265	82	18	342.00	86	2074.7	2.61	0.341	0.022	47	8	17	32	25.40	23
Polytechnic University of Puerto Rico	PUOPR	X	X	X	2323.0	150.0	103.0	10.2	47.8	377			377.00	89	1858.6	1.97	1.249	0.046	23	24	12	25	21.20	12
Polytechnic University of Puerto Rico	PUPUR	X	X	X	2386.5	153.5	102.7	19.7	53.8	377			377.00	94	1876.8	2.17	0.654	0.027	40	20	6	29	25.20	22
Southern Illinois University	SIUEA	X	X	X	2370.0	151.0	104.0	24.2	29.7	186	74	111	445.00	87	1847.6	1.20	0.515	0.007	42	37	15	34	34.60	48
Southern Illinois University	SIUEB	X	X	X	2011.7	151.3	101.0	6.7	19.6	158	158		237.00	82	1659.6	0.81	1.963	0.120	11	42	23	12	25.80	26
Texas State University	TEXST	X	X	X	2209.6	155.3	102.0	7.8	37.5				0.00	56	1741.2	1.51	1.683	DQ	14	33	39	DQ	26.60	30
Tecnologico de Costa Rica	TICOS	X	X	X	2429.1	153.0	101.7	16.1	56.6				0.00	86	1954.4	2.31	0.812	DQ	34	13	17	DQ	22.20	15
UAM Azcapotzalco	UAMAU	X	X	X	2198.0	149.0	99.5	6.3	46.6	148	20	35	228.00	78	1897.2	2.00	2.144	0.362	7	23	27	4	17.40	7
Universidad Autonoma Metropolitana - Azcapotzalco	UAMAZ	X	X	X	2192.8	151.7	100.2	6.5	49.8	254		26	306.00	83	1833.1	2.09	2.073	0.151	8	21	21	9	15.80	3
Universidad Autonoma de Nuevo Leon	UANLA	X	X	X	1980.1	155.0	99.7	3.9	19.4				0.00	55	1636.3	0.80	3.552	DQ	2	43	40	DQ	26.00	27

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School Name	Team ID	Rule Compliance			Weight (g)	Avg Length (mm)	Avg Diameter (mm)	Permeability Time (seconds)	Split Tensile Load (kN)	C	FA	SF	TC (kg)	Report Score (%)	Unit Weight (kg/m ³)	Split Tensile Strength (MPa)	Permeability (Falling Head) cm/s	CE	Permeability Ranking	Split Tensile Ranking	Report Ranking	CE Ranking	Performance Score	Perform Ranking
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Universidad Autonoma de Nuevo Leon	UANLB	X	X	X	2194.7	148.5	98.5	8.8	57.5	179	24	65	321.00	76	1939.5	2.50	1.576	0.119	16	11	29	13	16.60	5
University de Sherbrooke	UDES	X	X	X	2261.1	153.6	102.0	10.8	44.0	252		38	328.00	96	1801.5	1.79	1.208	0.061	25	28	2	21	21.60	13
University of Illinois at Urbana-Champaign	UIUC	X	X	X	2201.5	153.5	102.0	9.3	33.6	255		26	307.00	77	1755.2	1.37	1.401	0.066	18	35	28	20	26.80	32
University of Minnesota Duluth	UMDMN	X	X	X	2098.6	153.5	101.3	6.7	11.8				0.00	54	1696.3	0.48	1.968	DQ	10	46	42	DQ	30.80	42
University of Minnesota Duluth	UMDUL	X	X	X	1938.0	152.0	102.0	5.3	6.7				0.00	55	1560.3	0.28	2.471	DQ	5	48	40	DQ	29.20	39
University of South Carolina	UOFSC	X	X	X	2399.2	147.5	97.7	41.1	61.9	303	64		335.00	98	2169.7	2.73	0.341	0.025	48	4	1	30	21.00	11
University of Puerto Rico Mayaguez	UPRMC	X	X	X	2050.1	154.3	100.3	10.5	28.9		155	18	113.50	96	1681.6	1.19	1.289	1.048	20	38	2	1	23.60	19
University of Puerto Rico Mayaguez	UPRMP	X	X	X	1960.0	155.0	100.7	7.9	22.0		161	17	114.50	94	1587.7	0.90	1.705	1.021	13	40	6	2	22.40	16
University of Saskatchewan	USASK	X											0.00	65				DQ			DQ	DQ		
Universidad San Francisco de Quito	USFQA	X	X	X	2423.2	152.5	101.7	16.7	69.9	364		7	378.00	95	1956.1	2.87	0.785	0.042	36	2	4	28	16.00	4
Universidad San Francisco de Quito	USFQB	X	X	X	2392.0	152.0	102.0	14.4	61.2	362		7	376.00	95	1925.9	2.51	0.901	0.043	31	9	4	27	16.80	6
University of Southern Indiana	USITA	X	X	X	2151.0	148.0	98.0	6.2	20.3				0.00	9	1926.8	0.89	2.250	DQ	6	41	48	DQ	28.40	37
Valparaiso University	VALPO	X	X	X	2298.0	155.6	101.3	8.2	32.1	91	53	8	133.50	67	1832.4	1.29	1.632	0.888	15	36	36	3	27.60	36