

# Fall 2022 Pervious Concrete Competition

Sponsored by the American Concrete Institute and ACI 522

Competition Date: 23-Oct-2022

\* = late submittal, 10% penalty    \*\* = dimensional problem, 30% penalty

$$\text{PerformanceScore} = [(0.60)(P) + (0.40)(S)] / (M/100)$$

	School Name	Team ID	Rule Compliance			Weight (g)	Avg Length (mm)	Avg Diameter (mm)	Permeability Time (seconds)	Split Tensile Load (lbs)	Split Tensile Load (kN)	Mix Score (%)	Unit Weight (kg/m <sup>3</sup> )	Split Tensile Strength (MPa)	Permeability (Falling Head) cm/s	Best in Show Eligible?	Best in Show Score	Permeability Ranking	Split Tensile Ranking	Mix Ranking	Best In Show Ranking	Performance Score	Perform Ranking
			Material	Curing	Size																		
1	California State University, Sacramento	22222	X	X	X	2522	151.7	101.6	16.1	9858	43.9	83	2050.6	1.81	0.811	Y	11	19	6	13	2	16.63	10
2	Catholic University of Cuenca	PCUCC	X	X	X	2325	154.4	102.7	6.9	6434	28.6	55	1817.8	1.15	1.870	N		6	18	22		19.64	16
3	CSU, Chico	CHICO	X	X	X	2730	153.9	102.0	27.1	11386	50.6	93	2170.9	2.05	0.483	N		26	4	5		18.49	14
4	Kongu Engineering College	PORUS	X	X	X	2778	155.5	103.8	21.7	14246	63.4	67	2111.1	2.50	0.584	N		23	1	20		21.19	20
5	Middle Tennessee State University	MTSU	X	X	X	2296	151.0	101.6	10.4	8773	39.0	15	1875.5	1.62	1.256	N		15	7	26		78.67	26
6	Missouri University of Science and Technology	MINER	X	X	X	2464	151.2	100.9	24.2	8395	37.3	93	2039.4	1.56	0.548	Y	4	25	9	5	3	20.00	17
7	New Jersey Institute of Technology	1NJIT	X	X	X	2950	178.0	102.5	8.0	5093	22.7	50	2008.5	0.79	1.716	N		10	27	23		43.68	25
8	The Ohio State University	Bucks	X	X	X	2257	152.9	102.1	7.1	6220	27.7	85	1802.9	1.13	1.844	Y	0	7	21	11	9	14.82	6
9	North Carolina State University	NCSU	X	X	X	2304	151.7	101.1	10.8	6708	29.8	90	1894.4	1.24	1.223	Y	2	16	17	9	7	18.22	13
10	Obafemi Awolowo University	OAUCE	X	X	X	2548	154.2	107.8	6.7	6727	29.9	84	1811.4	1.15	1.748	N		9	19	12		15.48	7
11	Pontificia Universidad Catolica Madre y Maestra	PUCMM	X	X	X	2316	152.3	101.2	12.1	5585	24.8	96	1891.4	1.03	1.093	Y	2	17	23	4	7	20.21	18
12	PSG Institute of Technology and Applied Research	PSGIT	X	X	X	2591	203.0	99.6	21.2	9994	44.5	5	1638.2	1.40	0.716	N		21	10	27		431.60	27
13	Southern Illinois University Edwardsville	SIUEC	X	X	X	3357	203.0	101.2	22.1	11486	51.1	90	2054.7	1.58	0.666	N		22	8	9		23.69	21
14	Texas A&M University - Commerce	TAMUC	X	X	X	2259	150.9	101.3	8.5	5570	24.8	73	1858.4	1.03	1.554	Y	4	11	22	16	4	21.10	19
15	Universidad Iberoamericana CDMX	ADTVO	X	X	X	2050	150.1	99.9	7.4	6650	29.6	98	1743.6	1.26	1.822	Y	12	8	16	2	1	11.43	1
16	Universidad Autonoma de Nuevo Leon	UANL1	X	X	X	2045	152.3	98.6	5.9	4848	21.6	75	1757.6	0.91	2.374	N		1	24	15		13.60	3
17	Universidad Autonoma de Sinaloa, Facultad de Ingenieria Culiacan	FIUAS	X	X	X	2180	153.0	100.2	15.3	11964	53.2	70	1808.4	2.21	0.881	N		18	2	19		16.57	9
18	Universidad Catolica de Cuenca Campus Azogues	UCAZO	X	X	X	2386	151.4	102.6	10.0	7044	31.3	72	1906.0	1.28	1.282	N		14	14	17		19.44	15
19	Universidad Central del Ecuador	UCE	X	X								86											
20	Universidad de Cuenca	UCACI	X	X	X	2061	150.3	100.4	7.0	4496	20.0	93	1732.1	0.84	1.899	N		5	25	5		13.98	4
21	Universidad del Azuay	UDA22	X	X	X	2108	151.2	100.9	5.7	4371	19.4	92	1745.4	0.81	2.343	Y	3	2	26	8	6	12.61	2
22	Universidad Mariano Gálvez de Guatemala Campus Quetzaltenango	UMGGT	X	X	X	2054	150.8	101.6	6.2	6105	27.2	72	1680.8	1.13	2.117	N		4	20	17		14.44	5
23	Universidad Nacional de San Agustín	@unsa	X	X																			
24	Universidad San Francisco de Quito	USFQA	X	X	X	2280	152.3	102.4	29.5	12119	53.9	99	1819.5	2.20	0.438	Y	0	27	3	1	9	17.58	12
25	Universite de Sherbrooke	Super	X	X	X	2386	152.1	100.9	23.7	9881	44.0	97	1962.8	1.82	0.561	Y	4	24	5	3	5	16.91	11
26	University of Houston - Downtown	UHD22	X	X	X	2532	155.4	101.1	9.2	7428	33.0	78	2030.9	1.34	1.447	N		12	13	14		15.90	8
27	Arizona State University	Devil	X	X	X	2099	152.7	102.1	9.4	6954	30.9	42	1678.2	1.26	1.378	N		13	15	24		32.86	24
28	Texas State University	TXCIM	X	X	X	2253	150.1	100.3	17.1	7391	32.9	58	1899.7	1.39	0.781	N		20	11	21		31.10	23
29	Tecnologico de Monterrey	58260	X	X	X	1588	153.6	100.4	6.2	7504	33.4	27	1307.3	1.38	2.175	N		3	12	25		26.89	22
30																							
31	Polytechnic University of Puerto Rico San Juan	PUPR	X	X	X	2228.0	155.5	101.9	8.7	3616.0	16.1	0	1757.5	0.65	1.504	N							
32	Texas State University CE School	TXCE	X	X	X	1780.0	147.4	101.0	6.3	1.0	0.0	0	1507.3	0.00	2.078	N							