

Windsor Pin Concrete Strength



TEST WELL
BUILD WELL

Micrometer Strength Penetration Table						
Micrometer Reading (inches)	Pin Penetration (inches)	Pin Penetration (mm)	Cylinder Compressive Strength (PSI)	Cube Compressive Strength (PSI)	Cylinder Compressive Strength (MPa)	Cube Compressive Strength (MPa)
0.990	0.010	0.25	5350	6688	36.9	46.1
0.985	0.015	0.38	5280	6600	36.4	45.5
0.980	0.020	0.51	5210	6513	35.9	44.9
0.975	0.025	0.64	5150	6438	35.5	44.4
0.970	0.030	0.76	5080	6350	35.0	43.8
0.965	0.035	0.89	5010	6263	34.5	43.2
0.960	0.040	1.02	4940	6175	34.1	42.6
0.955	0.045	1.14	4870	6088	33.6	42.0
0.950	0.050	1.27	4800	6000	33.1	41.4
0.945	0.055	1.40	4730	5913	32.6	40.8
0.940	0.060	1.52	4660	5825	32.1	40.2
0.935	0.065	1.65	4590	5738	31.6	39.6
0.930	0.070	1.78	4520	5650	31.2	39.0
0.925	0.075	1.91	4460	5575	30.8	38.4
0.920	0.080	2.03	4390	5488	30.3	37.8
0.915	0.085	2.16	4320	5400	29.8	37.2
0.910	0.090	2.29	4250	5313	29.3	36.6
0.905	0.095	2.41	4180	5225	28.8	36.0
0.900	0.100	2.54	4110	5138	28.3	35.4
0.895	0.105	2.67	4040	5050	27.9	34.8
0.890	0.110	2.79	3970	4963	27.4	34.2
0.885	0.115	2.92	3900	4875	26.9	33.6
0.880	0.120	3.05	3830	4788	26.4	33.0
0.875	0.125	3.18	3770	4713	26.0	32.5
0.870	0.130	3.30	3700	4625	25.5	31.9
0.865	0.135	3.43	3630	4538	25.0	31.3
0.860	0.140	3.56	3560	4450	24.5	30.7
0.855	0.145	3.68	3490	4363	24.1	30.1
0.850	0.150	3.81	3420	4275	23.6	29.5
0.845	0.155	3.94	3350	4188	23.1	28.9
0.840	0.160	4.06	3280	4100	22.6	28.3
0.835	0.165	4.19	3210	4013	22.1	27.7
0.830	0.170	4.32	3140	3925	21.6	27.1
0.825	0.175	4.45	3080	3850	21.2	26.5
0.820	0.180	4.57	3010	3763	20.8	25.9
0.815	0.185	4.70	2940	3675	20.3	25.3
0.810	0.190	4.83	2870	3588	19.8	24.7
0.805	0.195	4.95	2800	3500	19.3	24.1
0.800	0.200	5.08	2730	3413	18.8	23.5
0.795	0.205	5.21	2660	3325	18.3	22.9
0.790	0.210	5.33	2590	3238	17.9	22.3
0.785	0.215	5.46	2520	3150	17.4	21.7
0.780	0.220	5.59	2450	3063	16.9	21.1
0.775	0.225	5.72	2390	2988	16.5	20.6
0.770	0.230	5.84	2320	2900	16.0	20.0
0.765	0.235	5.97	2250	2813	15.5	19.4
0.760	0.240	6.10	2180	2725	15.0	18.8
0.755	0.245	6.22	2110	2638	14.5	18.2
0.750	0.250	6.35	2040	2550	14.1	17.6
0.745	0.255	6.48	1970	2463	13.6	17.0
0.740	0.260	6.60	1900	2375	13.1	16.4
0.735	0.265	6.73	1830	2288	12.6	15.8
0.730	0.270	6.86	1760	2200	12.1	15.2
0.725	0.275	6.99	1700	2125	11.7	14.7
0.720	0.280	7.11	1630	2038	11.2	14.0
0.715	0.285	7.24	1560	1950	10.8	13.4
0.710	0.290	7.37	1490	1863	10.3	12.8
0.705	0.295	7.49	1420	1775	9.8	12.2
0.700	0.300	7.62	1350	1688	9.3	11.6
0.695	0.305	7.75	1280	1600	8.8	11.0

Micrometer Strength Penetration Table						
Micrometer Reading (inches)	Pin Penetration (inches)	Pin Penetration (mm)	Cylinder Compressive Strength (PSI)	Cube Compressive Strength (PSI)	Cylinder Compressive Strength (MPa)	Cube Compressive Strength (MPa)
0.690	0.310	7.87	1210	1513	8.3	10.4
0.685	0.315	8.00	1140	1425	7.9	9.8
0.680	0.320	8.13	1070	1338	7.4	9.2
0.675	0.325	8.26	1010	1263	7.0	8.7
0.670	0.330	8.38	940	1175	6.5	8.1
0.665	0.335	8.51	870	1088	6.0	7.5
0.660	0.340	8.64	800	1000	5.5	6.9
0.655	0.345	8.76	730	913	5.0	6.3
0.650	0.350	8.89	660	825	4.6	5.7
0.645	0.355	9.02	590	738	4.1	5.1
0.640	0.360	9.14	520	650	3.6	4.5
0.635	0.365	9.27	450	563	3.1	3.9
0.630	0.370	9.40	380	475	2.6	3.3
0.625	0.375	9.53	320	400	2.2	2.8
0.620	0.380	9.65	250	313	1.7	2.2
0.615	0.385	9.78	180	225	1.2	1.6



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Windsor Pin Mortar Strength



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BUILD WELL

Mortar Strength Penetration Table				
Micrometer Reading (inches)	Pin Penetration (inches)	Pin Penetration (mm)	Cube Compressive Strength (PSI)	Cube Compressive Strength (MPA)
0.990	0.010	0.25	7350	50.7
0.985	0.015	0.38	7263	50.1
0.980	0.020	0.51	7175	49.5
0.975	0.025	0.64	7100	49.0
0.970	0.030	0.76	7013	48.3
0.965	0.035	0.89	6925	47.7
0.960	0.040	1.02	6850	47.2
0.955	0.045	1.14	6763	46.6
0.950	0.050	1.27	6675	46.0
0.945	0.055	1.40	6600	45.5
0.940	0.060	1.52	6513	44.9
0.935	0.065	1.65	6425	44.3
0.930	0.070	1.78	6350	43.8
0.925	0.075	1.91	6263	43.2
0.920	0.080	2.03	6175	42.6
0.915	0.085	2.16	6100	42.1
0.910	0.090	2.29	6013	41.5
0.905	0.095	2.41	5925	40.9
0.900	0.100	2.54	5850	40.3
0.895	0.105	2.67	5763	39.7
0.890	0.110	2.79	5675	39.1
0.885	0.115	2.92	5600	38.6
0.880	0.120	3.05	5513	38.0
0.875	0.125	3.18	5438	37.5
0.870	0.130	3.30	5350	36.9
0.865	0.135	3.43	5263	36.3
0.860	0.140	3.56	5188	35.8
0.855	0.145	3.68	5100	35.2
0.850	0.150	3.81	5013	34.6
0.845	0.155	3.94	4938	34.0
0.840	0.160	4.06	4850	33.4
0.835	0.165	4.19	4763	32.8
0.830	0.170	4.32	4688	32.3
0.825	0.175	4.45	4600	31.7
0.820	0.180	4.57	4513	31.1
0.815	0.185	4.70	4438	30.6
0.810	0.190	4.83	4350	30.0
0.805	0.195	4.95	4263	29.4
0.800	0.200	5.08	4188	28.9
0.795	0.205	5.21	4100	28.3
0.790	0.210	5.33	4013	27.7
0.785	0.215	5.46	3938	27.1
0.780	0.220	5.59	3850	26.5
0.775	0.225	5.72	3763	25.9
0.770	0.230	5.84	3688	25.4
0.765	0.235	5.97	3600	24.8
0.760	0.240	6.10	3513	24.2
0.755	0.245	6.22	3438	23.7
0.750	0.250	6.35	3350	23.1
0.745	0.255	6.48	3263	22.5
0.740	0.260	6.60	3188	22.0
0.735	0.265	6.73	3100	21.4
0.730	0.270	6.86	2550	17.6
0.725	0.275	6.99	2463	17.0
0.720	0.280	7.11	2388	16.5
0.715	0.285	7.24	2313	15.9
0.710	0.290	7.37	2238	15.4
0.705	0.295	7.49	2150	14.8
0.700	0.300	7.62	2075	14.3
0.695	0.305	7.75	2000	13.8

Mortar Strength Penetration Table				
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0.680	0.320	8.13	1763	12.2
0.675	0.325	8.26	1688	11.6
0.670	0.330	8.38	1613	11.1
0.665	0.335	8.51	1525	10.5
0.660	0.340	8.64	1450	10.0
0.655	0.345	8.76	1375	9.5
0.650	0.350	8.89	1288	8.9
0.645	0.355	9.02	1213	8.4
0.640	0.360	9.14	1138	7.8
0.635	0.365	9.27	1063	7.3
0.630	0.370	9.40	975	6.7
0.625	0.375	9.53	900	6.2
0.620	0.380	9.65	825	5.7
0.615	0.385	9.78	750	5.2
0.610	0.390	9.91	663	4.6
0.605	0.395	10.03	588	4.1
0.600	0.400	10.16	513	3.5
0.595	0.405	10.29	438	3.0
0.590	0.410	10.41	350	2.4
0.585	0.415	10.54	275	1.9
0.580	0.420	10.67	200	1.4
0.575	0.425	10.80	113	0.8



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