

8. Modulus of Rupture Testing (ASTM C99)

Table 8.1: Average Test Results

Orientation	Condition	Average strength	Standard deviation
		(psi)	(psi)
Load perpendicular	Dry	2100	100
Load perpendicular	Wet	1640	40
Load parallel	Dry	1200	90
Load parallel	Wet	1130	80

Table 8.2: Individual Test Results

Specimen ID	Orientation	Condition	Span	Width	Depth	Load	Modulus of rupture
			(in.)	(in.)	(in.)	(lbf)	(psi)
ME01	Load perpendicular	Dry	7.0	3.96	2.27	4076	2090
ME02			7.0	3.93	2.28	4048	2080
ME03			7.0	3.97	2.28	3945	2010
ME04			7.0	3.94	2.26	3890	2030
ME05			7.0	3.97	2.29	4482	2270
ME06		Wet	7.0	3.96	2.29	3296	1660
ME07			7.0	3.95	2.29	3256	1650
ME08			7.0	3.93	2.28	3251	1670
ME09			7.0	3.96	2.32	3188	1570
ME10			7.0	3.96	2.29	3281	1660
MA01	Load parallel	Dry	7.0	3.95	2.15	1995	1150
MA02			7.0	3.94	2.14	1875	1090
MA03			7.0	3.95	2.16	2253	1280
MA04			7.0	3.95	2.15	2034	1170
MA05			7.0	3.94	2.16	2299	1310
MA06		Wet	7.0	3.95	2.16	2059	1170
MA07			7.0	3.94	2.16	1779	1020
MA08			7.0	3.94	2.14	1979	1150
MA09			7.0	3.94	2.13	2080	1220
MA10			7.0	3.93	2.16	1924	1100