

9. Flexural Strength Testing (ASTM C880)

Table 9.1: Average Test Results (2” project thickness)

Orientation	Condition	Average strength	Standard deviation
		(psi)	(psi)
Load perpendicular	Dry	1460	112
Load perpendicular	Wet	1270	68
Load parallel	Dry	940	70
Load parallel	Wet	850	48

Table 9.2: Individual Test Results (2” project thickness)

Specimen ID	Orientation	Condition	Span	Width	Depth	Load	Flexural strength
			(in.)	(in.)	(in.)	(lbf)	(psi)
F2E01	Load perpendicular	Dry	20.0	3.95	2.07	1760	1560
F2E02			20.0	3.98	2.06	1458	1290
F2E03			20.0	3.94	2.08	1773	1570
F2E04			20.0	3.95	2.06	1636	1470
F2E05			20.0	3.96	2.07	1626	1440
F2E06		Wet	20.0	3.95	2.05	1294	1170
F2E07			20.0	3.94	2.06	1416	1260
F2E08			20.0	3.95	2.07	1515	1340
F2E09			20.0	3.96	2.10	1536	1320
F2E10			20.0	3.95	2.07	1439	1280
F2A01	Load parallel	Dry	20.0	3.96	2.09	1128	980
F2A02			20.0	3.99	2.11	1114	950
F2A03			20.0	3.96	2.10	954	820
F2A04			20.0	3.95	2.11	1127	970
F2A05			20.0	3.94	2.07	1113	990
F2A06		Wet	20.0	3.93	2.05	942	860
F2A07			20.0	3.97	2.09	946	820
F2A08			20.0	3.97	2.10	957	820
F2A09			20.0	3.97	2.06	1041	930
F2A10			20.0	3.94	2.05	895	810