The difference between the specific weights of the air and kiln-dried specimens was not great. The specific weight of the beam was from 2 to 4 lbs. per cubic foot greater than that of the specimens.

DRIED SPECIMENS FROM WHITE PINE BEAM 36 KILN DRIED AT 212° F.

Tension Tests.					Compression Tests.					Shearing Tests.		
Coefficients of elasticity.		Tensile strength in lbs. per sq. in.	Sp. wt. in lbs. per cub. ft.	Spec.	Coefficients of elasticity.		Compressive strength in lbs. per sq. in.	Sp. wt. in lbs. per cub. ft.	Spec.	Shearing strength in lbs. per sq. in. of 1 inch.	Sp. wt. in lbs. per cub. ft.
Spec.	Forward.	Return.			Forward.	Return.					
a_1	1,165,780	1,108,750	6236	21.260	1,581,040	1,579,840	7175	21.540	m_1	235.10	21.866
a_2	1,408,190	1,411,440	7574	21.983	1,508,840	1,501,220	5006	21.952	m_2	215.02	22.339
b_1	1,378,041	1,365,560	3329	22.072	1,330,880	1,325,060	5844	20.40	n_1	272.77	20.621
b_2	1,254,210	1,260,000	4914	22.316	1,963,430	1,958,110	5312	20.917	n_2	239.15	21.745
c	.....	.....	2241	22.180	1,441,300	1,436,810	5589	21.416	n_3	267.28	21.931
d_1	1,124,970	1,430,630	7446	20.69	1,601,100	1,550,200	6013	21.236	n_4	284.43	21.774
d_2	1,045,480	1,051,080	.....	.....					o_1	249.85	20.542
e_1	1,205,550	1,211,470	.....	.....					o_2	257.53	20.657
e_2	1,275,230	1,286,250	.....	.....					p_1	236.53	21.145
									p_2	300.00	22.844
									q_1	215.52	20.532
									q_2	237.58	22.520
									r_1	200.4	21.173
									r_2	254.79	22.378
									s_1	254.39	21.814
									s_2	325.38	22.547
									t_1	267.94	21.342
									t_2	269.62	21.567

Remarks.—The co-efficients of elasticity, tensile and compressive strength of this kiln-dried beam are all small, possibly on account of the obliquity of the grain in the timber.

The compressive strength, however, is again much greater and the shearing strength much less than the corresponding strengths in similar air-dried specimens.

Owing to some inherent weakness which could not be determined, specimen *c* failed under an abnormally low load, and before the extensometer had been taken off.