

Results of tension tests on specimens cut out of Douglas Fir Beam XXI., and of the repeated loading of another specimen cut out of same Beam. (Fig. 126.)

Loads in lbs.		Readings taken by							
		1		2		3		4	
		Extensometer.		Rate	Exit.	Rate	Exit.	Rate	Exit.
		Forward.	Re- turn.	Forward.	Forward				
100	0	65	0	...	0	...	0	...	0
200	65	...	69	...	105	...	116	...	113
400	212	291	224	...	291	...	355	...	349
600	391	...	360	...	455	...	630	...	600
800	529	571	...	...	620	...	918	...	890
1,000	663	...	626	...	810	...	1,244	0	1,229
1,200	806	853	775	...	1,011	...	...	...	1,539
1,400	948	...	918	...	1,231	...	...	...	0
1,600	...	...	...	...	...	...	...	10	5
1,800	1,090	1,118	1,050	...	1,192	...	...	...	...
2,000	1,239	...	1,199	...	1,593	...	...	...	...
2,500	1,385	1,385	1,340	0	1,731	0	...	...	...
3,000	...	...	...	7	...	6	...	...	...
3,500	...	...	...	12	...	11	...	...	...
4,000	...	...	...	17	...	18	...	...	...
4,500	...	...	...	22	...	24	...	...	...
5,000	...	...	...	30	...	32	...	...	...
5,500	...	...	...	37	...	41	...	...	...
6,000	...	...	...	42	...	50	...	...	...
6,500	...	...	...	50	...	56	...	...	...
7,000	...	...	...	56	...	63	...	...	...
7,500	...	...	...	61	...	76	...	...	...
8,000	...	...	...	70	...	82	...	...	...
				85	...	92	...	...	...
Total break ing weights in lbs.		8,240			8,100	...	1,830		4,480
Breaking wgt. in lbs. per sq. in.		11,565			11,095	...	2,185		6,157
Coefficient of elasticity in lbs.		2,005,050			1,335,300	...	916,640		923,890
Time of test in minutes.		44			35	...	14		27

Results of tension tests on specimens cut of an old Douglas Fir stringer, Beam XXII., and of the repeated loading of another specimen cut out of the same beam.

XXII., and of the repeated testing.

(Fig. 127.)

Readings taken by

1

2

3

4

Extensometer.

Rule.

Extr.

Rule.

Extr.

Rule.

Extr.

Rule.

Loads in lbs.

Forward.

Re-
turn.

For-
ward.

0

100

79

141

141

117

90

60

200

231

291

292

289

230

190

400

389

440

439

416

376

319

600

539

580

579

518

518

450

800

690

730

723

635

649

588

1,000

872

872

881

763

801

713

1,200

1,030

835

929

847

1,400

1,161

1,023

1,077

920

1,600

1,310

1,169

1,205

1,096

1,800

2

1,301

0

1,220

2,000

9

2

2,500

13

5

3,000

20

9

3,500

24

9

4,000

30

36

4,500

40

36

5,000

46

42

5,500

50

49

6,000

55

56

6,500

60

62

7,000

67

71

7,500

72

83

8,000

80

86

8,500

90

9,000

98

9,500