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TABLE 1

SPECIES	AXIAL TENSION ALSO BENDING IN EXTREME FIBER										COMPRESSION PERPENDICULAR TO GRAIN			MAX. HORIZONTAL SHEAR		MODULUS OF ELASTICITY
	CONT. DRY		OCCASIONALLY WET				USUALLY WET				SELECT OR COMMON GRADES			ALL CONDITIONS OF EXPOSURE		
			4 IN. & THINNER		5 IN. & THICKER		4 IN. & THINNER		5 IN. & THICKER							
	SELECT	COMMON	SELECT	COMMON	SELECT	COMMON	SELECT	COMMON	SELECT	COMMON	CONT DRY	OCCASIONALLY WET	USUALLY WET	SELECT	COMMON	
CEDAR: western red	900	720	710	600	800	640	670	570	750	600	200	150	125	80	64	1,000,000
" : northern & southern white	750	600	580	490	—	—	530	450	—	—	175	140	100	70	56	800,000
" : Port Orford	1,100	880	890	760	1,000	800	800	680	900	720	250	200	150	90	72	1,200,000
" : Alaska	1,100	880	890	760	—	—	800	680	—	—	250	200	150	90	72	1,200,000
CYPRESS: southern	1,300	1,040	980	830	—	—	800	680	—	—	350	250	225	100	80	1,200,000
DOUGLAS FIR: Coast Region	1,600	1,200	1,240	980	1,385	1,040	950	750	1,065	800	SEL 345	COM. 325	SEL 240	COM. 225	SEL. 215	COM 200	90	72	1,600,000
" " : Dense	1,750	1,400	1,370	1,145	1,515	1,210	1,050	875	1,165	930	380	265	235	105	84	1,600,000
" " : Rocky Mountain Region	1,100	880	800	680	900	720	620	530	700	560	275	225	200	85	68	1,200,000
FIR: balsam	900	720	670	570	—	—	530	450	—	—	150	125	100	70	56	1,000,000
" : golden, noble, silver, white	1,100	880	800	680	—	—	710	600	—	—	300	225	200	70	56	1,100,000
HEMLOCK: West Coast	1,300	1,040	980	830	1,100	880	800	680	900	720	300	225	200	75	60	1,400,000
" : eastern	1,100	880	800	680	—	—	710	600	—	—	300	225	200	70	56	1,100,000
LARCH: western	1,200	960	980	830	1,100	880	800	680	900	720	325	225	200	100	80	1,300,000
PINE: southern	—	1,200	—	980	—	1,040	—	750	—	800	325	225	200	—	88	1,600,000
" : southern dense	1,750	1,400	1,370	1,145	1,515	1,210	1,050	875	1,165	930	380	265	235	128	103	1,600,000
" : California, Idaho and northern white Pondosa and sugar	900	720	710	600	—	—	670	570	—	—	250	150	125	85	68	1,000,000
" : Norway	1,100	880	890	760	—	—	710	600	—	—	300	175	150	85	68	1,200,000
REDWOOD:	1,200	960	890	760	1,000	800	710	600	800	640	250	150	125	70	56	12[illegible]
SPRUCE: red, white, Sitka	1,100	880	800	680	900	720	710	600	800	640	250	150	125	85	68	[illegible]03 [illegible]
" : Englemann	750	600	580	490	—	—	440	370	—	—	175	140	100	70	56	[illegible]98 [illegible]
TAMARACK: eastern	1,200	960	980	830	—	—	800	680	—	—	300	225	200	95	76	[illegible]88 1,600,000
																[illegible]03 1,600,000

Note: For Stresses in compression parallel to grain see Table II

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TIMBER COLUMNS AND COMPRESSION MEMBERS

COMPRESSION PARALLEL TO GRAIN

(POUNDS PER SQUARE INCH)

EXPOSURE	SPECIES	SELECT STRUCTURAL GRADES — RATIO OF LENGTH TO LEAST DIMENSION ($\frac{l}{d}$)								COMMON STRUCTURAL GRADES — RATIO OF LENGTH TO LEAST DIMENSION ($\frac{l}{d}$)							
		10 OR LESS (SHORT COLUMNS)	12	14	16	18	20	25	30	10 OR LESS (SHORT COLUMNS)	12	14	16	18	20	25	30
CONTINUOUSLY DRY	CEDAR: western red	700	686	674	656	629	592	438	304	560	553	547	538	524	505	425	304
	DOUGLAS FIR: Coast Region	1,175	1,149	1,127	1,093	1,045	975	702	487	880	870	861	847	826	796	675	487
	" " Dense	1,285	1,251	1,222	1,176	1,112	1,022	702	487	1,025	1,017	996	965	935	893	698	487
	" " Rocky Mountain Region	800	786	774	753	726	688	526	365	640	632	627	617	602	582	500	365
	HEMLOCK: West Coast	900	885	872	852	823	783	614	426	720	712	706	696	680	660	575	426
	LARCH: western	1,100	1,068	1,041	999	937	851	570	396	880	863	849	828	798	752	570	396
	PINE: Southern	—	—	—	—	—	—	—	—	880	870	861	847	826	796	675	487
	" Southern Dense	1,285	1,251	1,222	1,176	1,112	1,022	702	487	1,025	1,017	996	965	935	893	698	487
	REDWOOD:	1,000	972	947	910	856	781	526	365	800	786	773	754	726	688	526	365
	SPRUCE: red, white, Sitka	800	786	774	753	726	688	526	365	640	632	627	617	602	582	500	365
OCCASIONALLY WET	CEDAR: western red	700	686	673	654	628	591	438	304	560	552	546	537	523	504	425	304
	DOUGLAS FIR: Coast Region	1,065	1,045	1,028	1,003	968	915	702	487	800	792	784	773	758	736	644	487
	" " Dense	1165	1,139	1118	1,083	1,036	971	702	487	935	924	905	886	858	830	681	487
	" " Rocky Mountain Region	800	785	772	753	728	688	526	365	640	632	625	616	602	582	502	365
	HEMLOCK: West Coast	900	885	871	851	824	783	612	426	720	712	705	695	681	659	572	426
	LARCH: western	1000	976	955	922	877	810	570	396	800	787	777	760	736	704	564	396
	PINE: Southern	—	—	—	—	—	—	—	—	800	792	784	773	758	736	644	487
	" Southern Dense	1165	1,139	1118	1,083	1,036	971	702	487	935	924	905	886	858	830	681	487
	REDWOOD:	900	879	861	834	794	738	526	365	720	709	700	685	666	637	518	365
	SPRUCE: red, white, Sitka	750	738	728	712	690	657	525	365	600	594	588	580	568	552	485	365
USUALLY WET	CEDAR: western red	650	638	629	614	594	565	437	304	520	514	509	502	491	475	413	304
	DOUGLAS FIR: Coast Region	905	893	883	867	846	814	683	487	680	675	670	664	655	641	588	482
	" " Dense	990	974	961	940	910	871	698	487	795	785	777	767	753	730	642	482
	" " Rocky Mountain Region	700	690	681	669	651	623	514	365	560	554	551	544	535	521	465	365
	HEMLOCK: West Coast	800	789	780	766	745	717	600	426	640	634	629	622	612	598	537	426
	LARCH: western	800	787	776	760	736	704	565	396	640	633	627	618	606	588	519	396
	PINE: Southern	—	—	—	—	—	—	—	—	680	675	670	664	655	641	588	482
	" Southern Dense	990	974	961	940	910	871	698	487	795	785	777	767	753	730	642	482
	REDWOOD:	750	737	727	712	690	657	525	365	600	594	588	580	568	552	485	365
	SPRUCE: red, white, Sitka	650	642	635	625	611	589	500	365	520	515	512	507	500	489	446	365

Note For Modulus of Elasticity see Table I

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	Article	Section
Footings	15	2
And Foundations as Enchoachments	20	2
Foundations	15	2
Chimney	22	1
Inspection of	1	14
Sheds and Garages	4	9
Starting of, Constituting Starting of Building	1	12
Stone, Brick, Concrete	15	2
Type 7 Buildings	4	8
Wall Definition	2	3
Wall 8"	16	5
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Frame Buildings—Damages 50%	1	6
Fire Limits	3	2-3
Fire Limits, Repair of	3	4
Frame Construction, Details of	4	9
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Frame Garages	4	9
Frame Ice Houses	4	9
Frame Residences—Foundations for	15	2
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Furring Wood, Prohibited Use of in Fireproof Construction	4	2
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Gutters—Projecting into Street	20	4
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Protection of in Class C Buildings	8	8
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