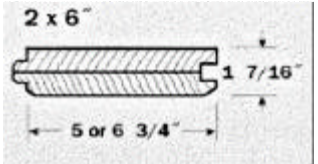
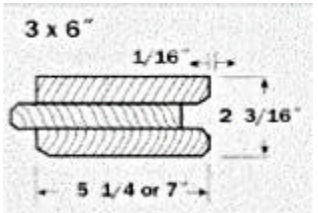
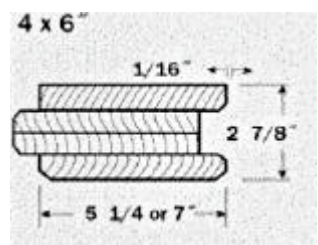
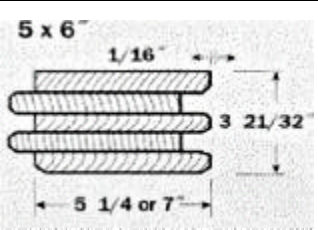


ALLOWABLE UNIFORMLY DISTRIBUTED ROOF LOADS IN A SIMPLE OR RANDOM LAY-UP SYSTEM

Pounds per square foot includes live and dead loads and weight of decking

Loads limited by deflection*

SIZE	Span Feet	DOUGLAS FIR/LARCH E = 1,800,000 psi Fb = 2,585 psi Fv = 165 psi				PONDEROSA PINE E = 1,150,000 psi Fb = 1,485 psi Fv = 150 psi				PONDEROSA PINE FACE E = 1,500,000 psi** Fb = 1,720 psi Fv = 130 psi				INLAND RED CEDAR FACE E = 1,250,000 psi Fb = 1,485 psi Fv = 130 psi				
		Simple Span		Random Length Continuous		Simple Span		Random Length Continuous		Simple Span		Random Length Continuous		Simple Span		Random Length Continuous		
		L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	L/180 PSF	L/240 PSF	
	2	1783f	1485	1487f	1487f	1024f	949	854f	854f	1187f	1187f	867	867	1024f	1024f	854f	854f	
	3	587	440	660f	660f	374	281	379f	379f	489	367	440	440	407	305	379f	379f	
	4	248	186	371f	315	158	119	213f	201	206	155	247	247	172	129	213f	213f	
	5	127	95	215	161	81	61	137	103	106	79	158	134	88	66	137f	112	
	6	73	55	124	93	47	35	79	60	61	46	103	78	51	38	86	65	
	7	46	35	78	59	29	22	50	38	38	29	65	49	32	24	54	41	
	8	31	23	52	39	20	15	33	25	26	19	44	33	22	16	36	27	
	9	22	17	37	28	14	11	24	17	18	14	31	23	15	12	26	19	
	10	16	12	27	20	10	7	17	13	13	10	12	17	11	8	19	14	
		4	858	643	844f	844f	547	410	484f	484f	536f	536f	561f	561f	581f	446	484f	484f
5		439	329	539f	539f	281	210	316f	316f	366	274	359f	359f	305	228	316f	316f	
6		254	191	375f	323	162	122	216f	206	212	159	249f	249f	176	133	216f	216f	
7		160	120	271	203	102	76	158f	130	133	100	183f	169	111	83	158f	141	
8		107	80	181	136	68	52	116	8	89	67	140	113	74	56	121f	94	
9		75	56	127	95	48	36	81	61	63	47	106	80	52	39	88	66	
10		55	41	93	70	35	26	60	45	46	34	77	58	38	28	65	49	
11		41	31	69	52	26	20	44	33	34	26	58	44	28	22	48	36	
12		32	24	54	41	20	16	34	26	26	20	45	34	22	17	37	28	
13		25	19	42	32	16	12	27	20	21	16	35	2	17	13	29	22	
14		20	15	34	26	13	9	22	17	17	12	28	21	14	10	24	18	
		6	579	434	651f	651f	370	277	449f	449f	482	362	519f	519f	402	301	449f	449f
		7	364	273	479f	462	233	174	330f	295	304	228	382f	382f	25	189	330f	321
		8	244	183	366f	310	155	117	252f	198	203	153	292f	258	169	127	252f	215
	9	171	128	289f	218	109	82	185	139	143	107	231f	181	119	89	199f	151	
	10	125	94	212	159	80	60	135	101	104	78	176	132	87	65	147	110	
	11	94	71	159	119	60	45	101	76	78	59	132	99	65	49	110	83	
	12	72	54	122	92	46	34	78	59	60	45	102	77	50	37	85	64	
	13	57	43	97	73	37	28	62	47	47	36	80	60	40	30	67	51	
	14	46	35	78	59	29	22	50	38	38	28	64	48	32	24	54	41	
	15	37	28	63	47	24	17	40	30	31	23	52	39	26	19	44	33	
	8	501	376	589f	589f	320	239	406f	404	417	313	471f	471f	348	260	406f	406f	
	9	352	264	416f	416f	224	168	321f	285	293	220	372	372	244	183	321f	310	
	10	256	192	378f	366	164	122	260f	208	215	160	301	271	178	133	260f	226	
	11	193	146	312f	245	123	93	209	156	161	120	249	204	134	101	215f	170	
	12	148	111	251	188	95	71	160	120	124	93	209	157	103	77	174	130	
	13	117	88	198	149	75	56	126	95	97	73	165	123	81	61	137	103	
	14	93	70	157	118	60	45	100	75	78	58	132	99	65	49	109	82	
	15	76	57	129	97	49	37	83	62	63	47	107	80	53	40	90	67	
	16	63	47	107	80	40	30	68	52	52	39	88	66	44	33	74	56	
	17	52	39	88	66	33	25	56	42	43	33	74	55	36	27	61	46	
18	44	33	74	56	28	21	48	36	37	27	62	47	31	23	52	39		

** Douglas Fir/Larch centers and back

Spans in excess of 15' may require a special mill tally, which is usually structural finger-jointed long lengths.

* f = loads controlled by bending. Loads controlled by bending are based on a Two-Month Duration of Load Factor of 1.15 (as for snow). For Normal Duration of Loading or Floor Loads, values governed by bending must be divided by 1.15.

For Floor loads based on deflection using L/360, use 1/2 of L/180 values.

Filler King Company