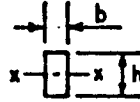


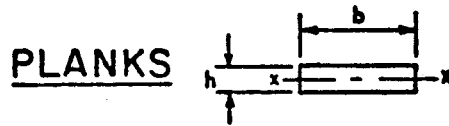
PROPERTIES OF ROUGH-SAWN LUMBER

BEAMS



NOMINAL SIZE In Inches b x h	AREA (A) $A = bh$ (in ²)	SECTION MODULUS $S = bh^2/6$ (in ³)	MOMENT OF INERTIA $I = bh^3/12$ (in ⁴)
2 x 2	4	1.33	1.33
2 x 3	6	3.00	4.50
2 x 4	8	5.33	10.67
2 x 6	12	12.00	36.00
2 x 8	16	21.33	85.33
2 x 10	20	33.33	166.67
2 x 12	24	48.00	288.00
2 x 14	28	65.33	457.33
3 x 3	9	4.50	6.75
3 x 4	12	8.00	16.00
3 x 6	18	18.00	54.00
3 x 8	24	32.00	128.00
3 x 10	30	50.00	250.00
3 x 12	36	72.00	432.00
3 x 14	42	98.00	686.00
3 x 16	48	128.00	1024.00
4 x 4	16	10.67	21.33
4 x 6	24	24.00	72.00
4 x 8	32	42.67	170.67
4 x 10	40	66.67	333.33
4 x 12	48	96.00	576.00
4 x 14	56	130.67	914.67
4 x 16	64	170.67	1365.33
6 x 6	36	36.00	108.00
6 x 8	48	64.00	256.00
6 x 10	60	100.00	500.00
6 x 12	72	144.00	864.00
6 x 14	84	196.00	1372.00
6 x 16	96	256.00	2048.00
6 x 18	108	324.00	2916.00
6 x 20	120	400.00	4000.00
8 x 8	64	85.33	341.33
8 x 10	80	133.33	666.67
8 x 12	96	192.00	1152.00
8 x 14	112	261.33	1829.33
8 x 16	128	341.33	2730.67
8 x 18	144	432.00	3888.00
8 x 20	160	533.33	5333.33
8 x 24	192	768.00	9216.00
10 x 10	100	166.67	833.33
10 x 12	120	240.00	1440.00
10 x 14	140	326.67	2286.67
10 x 16	160	426.67	3413.33
10 x 18	180	540.00	4860.00
10 x 20	200	666.67	6666.67
10 x 22	220	806.67	8873.33
12 x 12	144	288.00	1728.00
12 x 14	168	392.00	2744.00
12 x 16	192	512.00	4096.00
12 x 18	216	648.00	5832.00
12 x 20	240	800.00	8000.00
12 x 22	264	968.00	10648.00
12 x 24	288	1152.00	13824.00

PROPERTIES OF ROUGH-SAWN LUMBER



NOMINAL SIZE In Inches b x h	AREA (A) $A = bh$ (in ²)	SECTION MODULUS $S = bh^2/6$ (in ³)	MOMENT OF INERTIA $I = bh^3/12$ (in ⁴)
3 x 2	6	2.00	2.00
4 x 2	8	2.67	2.67
6 x 2	12	4.00	4.00
8 x 2	16	5.33	5.33
10 x 2	20	6.67	6.67
12 x 2	24	8.00	8.00
4 x 3	12	6.00	9.00
6 x 3	18	9.00	13.50
8 x 3	24	12.00	18.00
10 x 3	30	15.00	22.50
12 x 3	36	18.00	27.00
14 x 3	42	21.00	31.50
16 x 3	48	24.00	36.00
6 x 4	24	16.00	32.00
8 x 4	32	21.33	42.67
10 x 4	40	26.67	53.33
12 x 4	48	32.00	64.00
14 x 4	56	37.33	74.67
16 x 4	64	42.67	85.33