

BOARD FOOT CONVERSION CHART
COMPLIMENTS OF INTEGRITY WOOD PRODUCTS
www.integritywoodproducts.com 818-704-7490 800-831-7374

How to use this Board Foot Chart

1. Choose appropriate thickness on the chart (4/4, 5/4, or 6/4).
2. Top row of numbers is the width of board in inches; first column is length of board in feet.
3. Find where the row and column intersect and that's the board footage. (5/4 x 8" x 11' is 9.16 bf.)
4. Thickness shown is 4/4, 5/4, and 6/4. Simply double for 8/4, 10/4, and 12/4 respectively. For example: To calculate the board feet of a piece 10/4 x 8" x 11' use the 5/4 chart where 8" and 11' intersect (9.16 bf) and double it (18.32 bf).

What is a board foot?

A board foot is 1" x 12" x 12" in the rough. Surface measure (square feet) and board feet are not the same.

4/4 is pronounced "four-quarter"; 6/4 is pronounced "six-quarter", and so on. The common denominator is always 4 and represents one fourth of an inch of rough lumber. So, 4/4 lumber is one inch thick in the rough (four quarters of an inch) and 6/4 is one and a half inches thick in the rough (six quarters of an inch).

If you buy your hardwood lumber surfaced, it's usually about a 1/4" to a 1/2" less in thickness than if you bought it rough.

<u>Call-out</u>	<u>Nominal Rough Thickness</u>	<u>Nominal Surfaced Thickness</u>
4/4	1"	3/4"
5/4	1-1/4"	1"
6/4	1-1/2"	1-1/4"
8/4	2"	1-3/4"
10/4	2-1/2"	2"
12/4	3"	2-1/2"
16/4	4"	3-1/2"

How do I calculate board feet without this fine chart?

For most lumber: Thickness x width" x length' divided by 12 = board feet.

For small pieces: Thickness x width" x length" divided by 144 = board feet.

Use the decimal equivalent of rough thickness when calculating board footage. For example, to calculate the board footage of 5/4 x 8" x 11' multiply 1.25 x 8 x 11 and divide by 12.

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4/4 Board Foot Chart (Double for 8/4)

	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"	16"
1'	0.08	0.16	0.25	0.33	0.41	0.50	0.58	0.66	0.75	0.83	0.91	1.00	1.08	1.16	1.25	1.33
2'	0.17	0.33	0.50	0.66	0.83	1.00	1.16	1.33	1.50	1.66	1.83	2.00	2.16	2.33	2.50	2.66
3'	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
4'	0.33	0.66	1.00	1.33	1.66	2.00	2.33	2.66	3.00	3.33	3.66	4.00	4.33	4.66	5.00	5.33
5'	0.41	0.83	1.25	1.66	2.08	2.50	2.91	3.33	3.75	4.16	4.58	5.00	5.41	5.83	6.25	6.66
6'	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
7'	0.58	1.16	1.75	2.33	2.91	3.50	4.08	4.66	5.25	5.83	6.41	7.00	7.58	8.16	8.75	9.33
8'	0.66	1.33	2.00	2.66	3.33	4.00	4.66	5.33	6.00	6.66	7.33	8.00	8.66	9.33	10.00	10.66
9'	0.75	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.50	11.25	12.00
10'	0.83	1.66	2.50	3.33	4.16	5.00	5.83	6.66	7.50	8.33	9.16	10.00	10.83	11.66	12.50	13.33
11'	0.91	1.83	2.75	3.66	4.58	5.50	6.41	7.33	8.25	9.16	10.08	11.00	11.91	12.83	13.75	14.66
12'	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00
13'	1.08	2.16	3.25	4.33	5.41	6.50	7.58	8.66	9.75	10.83	11.91	13.00	14.08	15.16	16.25	17.33
14'	1.16	2.33	3.50	4.66	5.83	7.00	8.16	9.33	10.50	11.66	12.83	14.00	15.16	16.33	17.50	18.66
15'	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	13.75	15.00	16.25	17.50	18.75	20.00
16'	1.33	2.66	4.00	5.33	6.66	8.00	9.33	10.66	12.00	13.33	14.66	16.00	17.33	18.66	20.00	21.33

5/4 Board Foot Chart (Double for 10/4)

	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"	16"
1'	0.10	0.20	0.31	0.41	0.52	0.62	0.72	0.83	0.93	1.04	1.14	1.25	1.35	1.45	1.56	1.66
2'	0.20	0.41	0.62	0.83	1.04	1.25	1.45	1.66	1.87	2.08	2.29	2.50	2.70	2.91	3.12	3.33
3'	0.31	0.62	0.93	1.25	1.56	1.87	2.18	2.50	2.81	3.12	3.43	3.75	4.06	4.37	4.68	5.00
4'	0.41	0.83	1.25	1.66	2.08	2.50	2.91	3.33	3.75	4.16	4.58	5.00	5.41	5.83	6.25	6.66
5'	0.52	1.04	1.56	2.08	2.60	3.12	3.64	4.16	4.68	5.20	5.72	6.25	6.77	7.29	7.81	8.33
6'	0.62	1.25	1.87	2.50	3.12	3.75	4.37	5.00	5.62	6.25	6.87	7.50	8.12	8.75	9.37	10.00
7'	0.72	1.45	2.18	2.91	3.64	4.37	5.10	5.83	6.56	7.29	8.02	8.75	9.47	10.20	10.93	11.66
8'	0.83	1.66	2.50	3.33	4.16	5.00	5.83	6.66	7.50	8.33	9.16	10.00	10.83	11.66	12.50	13.33
9'	0.93	1.87	2.81	3.75	4.68	5.62	6.56	7.50	8.43	9.37	10.31	11.25	12.18	13.12	14.06	15.00
10'	1.04	2.08	3.12	4.16	5.20	6.25	7.29	8.33	9.37	10.41	11.45	12.50	13.54	14.58	15.62	16.66
11'	1.14	2.29	3.43	4.58	5.72	6.87	8.02	9.16	10.31	11.45	12.60	13.75	14.89	16.04	17.18	18.33
12'	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	13.75	15.00	16.25	17.50	18.75	20.00
13'	1.35	2.70	4.06	5.41	6.77	8.12	9.47	10.83	12.18	13.54	14.89	16.25	17.60	18.95	20.31	21.66
14'	1.45	2.91	4.37	5.83	7.29	8.75	10.20	11.66	13.12	14.58	16.04	17.50	18.95	20.41	21.87	23.33
15'	1.56	3.12	4.68	6.25	7.81	9.37	10.93	12.50	14.06	15.62	17.18	18.75	20.31	21.87	23.43	25.00
16'	1.66	3.33	5.00	6.66	8.33	10.00	11.66	13.33	15.00	16.66	18.33	20.00	21.66	23.33	25.00	26.66

6/4 Board Foot Chart (Double for 12/4)

	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"	16"
1'	0.12	0.25	0.37	0.50	0.62	0.75	0.87	1.00	1.12	1.25	1.37	1.50	1.62	1.75	1.87	2.00
2'	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
3'	0.37	0.75	1.12	1.50	1.87	2.25	2.62	3.00	3.37	3.75	4.12	4.50	4.87	5.25	5.62	6.00
4'	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00
5'	0.62	1.25	1.87	2.50	3.12	3.75	4.37	5.00	5.62	6.25	6.87	7.50	8.12	8.75	9.37	10.00
6'	0.75	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.50	11.25	12.00
7'	0.87	1.75	2.62	3.50	4.37	5.25	6.12	7.00	7.87	8.75	9.62	10.50	11.37	12.25	13.12	14.00
8'	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00
9'	1.12	2.25	3.37	4.50	5.62	6.75	7.87	9.00	10.12	11.25	12.37	13.50	14.62	15.75	16.87	18.00
10'	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	13.75	15.00	16.25	17.50	18.75	20.00
11'	1.37	2.75	4.12	5.50	6.87	8.25	9.62	11.00	12.37	13.75	15.12	16.50	17.87	19.25	20.62	22.00
12'	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50	21.00	22.50	24.00
13'	1.62	3.25	4.87	6.50	8.12	9.75	11.37	13.00	14.62	16.25	17.87	19.50	21.12	22.75	24.37	26.00
14'	1.75	3.50	5.25	7.00	8.75	10.50	12.25	14.00	15.75	17.50	19.25	21.00	22.75	24.50	26.25	28.00
15'	1.87	3.75	5.62	7.50	9.37	11.25	13.12	15.00	16.87	18.75	20.62	22.50	24.37	26.25	28.12	30.00
16'	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00