

Roof pitch chart

Line length is from the outside of the wall plate to the center of the ridge. Take off half the ridge board and add the overhang.

Pitch to angle and multiplier

Pitch	Angle	Multiplier	Rafter per foot of run
1/12	4.8°	1.003	12 1/16"
2/12	9.5°	1.014	12 3/16"
3/12	14.0°	1.031	12 3/8"
4/12	18.4°	1.054	12 5/8"
5/12	22.6°	1.083	13"
6/12	26.6°	1.118	13 7/16"
7/12	30.3°	1.158	13 7/8"
8/12	33.7°	1.202	14 7/16"
9/12	36.9°	1.250	15"
10/12	39.8°	1.302	15 5/8"
11/12	42.5°	1.357	16 1/4"
12/12	45.0°	1.414	17"

Rafter line length

Pitch	6 ft run	8 ft run	10 ft run	12 ft run
3/12	6' 2 3/16"	8' 2 15/16"	10' 3 11/16"	12' 4 7/16"
4/12	6' 3 7/8"	8' 5 3/16"	10' 6 1/2"	12' 7 13/16"
5/12	6' 6"	8' 8"	10' 10"	13'
6/12	6' 8 1/2"	8' 11 5/16"	11' 2 3/16"	13' 5"
7/12	6' 11 3/8"	9' 3 1/8"	11' 6 15/16"	13' 10 11/16"
8/12	7' 2 9/16"	9' 7 3/8"	12' 1/4"	14' 5 1/16"
9/12	7' 6"	10'	12' 6"	15'
10/12	7' 9 3/4"	10' 4 15/16"	13' 3/16"	15' 7 7/16"
12/12	8' 5 13/16"	11' 3 3/4"	14' 1 11/16"	16' 11 5/8"