

Roof Slope Conversion Tables

	Rise	Tangent	Slope
	inches per 12 inches of Run	of Slope Angle Rise / 12	Angle degrees
	0.50	0.042	2.39
Rise = Vertical distance from	1.00	0.083	4.76
horizontal surface to roof surface	1.50	0.125	7.12
	2.00	0.167	9.46
Run = Horizontal distance from Rise	2.50	0.208	11.77
line to roof surface. Often taken as	3.00	0.250	14.04
12 inches.	3.50	0.292	16.26
	4.00	0.333	18.43
	4.50	0.375	20.56
Slope Angle = Angle between	5.00	0.417	22.62
horizontal surface and roof surface	5.50	0.458	24.62
	6.00	0.500	26.56
	6.50	0.542	28.44
	7.00	0.583	30.26
	7.50	0.625	32.01
	8.00	0.667	33.69
	8.50	0.708	35.31
	9.00	0.750	36.87
	9.50	0.792	38.37
	10.00	0.833	39.81
	10.50	0.875	41.19
	11.00	0.917	42.51
	11.50	0.958	43.78
	12.00	1.000	45.00
	Slope	Tangent	Slope
	Angle	of Slope Angle	Rise
	degrees	Rise / 12	inches per 12 inches of Run
	2.00	0.035	0.42
	4.00	0.070	0.84
	6.00	0.105	1.26
	8.00	0.141	1.69
	10.00	0.176	2.12
	12.00	0.213	2.55
	14.00	0.249	2.99
	16.00	0.287	3.44
	18.00	0.325	3.90
	20.00	0.364	4.37
	22.00	0.404	4.85
	24.00	0.445	5.34
	26.00	0.488	5.85
	28.00	0.532	6.38
	30.00	0.577	6.93
	32.00	0.625	7.50
	34.00	0.675	8.09
	36.00	0.727	8.72
	38.00	0.781	9.38
	40.00	0.839	10.07
	42.00	0.900	10.80
	44.00	0.966	11.59
	45.00	1.000	12.00
	46.00	1.036	12.43
	48.00	1.111	13.33
	50.00	1.192	14.30