

8/12 - 12/12

8/12 Run					
Feet	8/12 RL	Rise	12/12 Run	12/12 RL	H/V RL
1	14 3/8	8	8	11 3/8	16 1/2
2	28 7/8	16	16	22 5/8	32 7/8
3	43 1/4	24	24	33 7/8	49 1/2
4	57 3/4	32	32	45 1/4	65 7/8
5	72 1/8	40	40	56 5/8	82 1/2
6	86 1/2	48	48	67 7/8	98 7/8
7	100 7/8	56	56	79 1/4	115 1/2
8	115 3/8	64	64	90 1/2	131 7/8
9	129 3/4	72	72	101 7/8	148 3/8
10	144 1/4	80	80	113 1/8	164 7/8
11	158 5/8	88	88	124 1/2	181 3/8
12	173 1/8	96	96	135 3/4	197 7/8
13	187 1/2	104	104	147 1/8	214 3/8
14	201 7/8	112	112	158 3/8	230 7/8
15	216 3/8	120	120	169 3/4	247 3/8
16	230 3/4	128	128	181	263 7/8
17	245 1/8	136	136	192 3/8	280 3/8
18	259 5/8	144	144	203 5/8	296 7/8
19	274	152	152	214 7/8	313 3/8
20	288 1/2	160	160	226 1/4	329 7/8
21	302 7/8	168	168	237 5/8	346 3/8
22	317 1/4	176	176	248 7/8	362 7/8
23	331 3/4	184	184	260 1/4	379 3/8
24	346 1/8	192	192	271 1/2	395 7/8
25	360 1/2	200	200	282 7/8	412 1/4

Factor Chart					
8/12	Rafter Run	X	1.202	=	8/12 Rafter Length
8/12	Rafter Run	X	0.667	=	Rise
8/12	Rafter Run	X	0.667	=	12/12 Rafter Run
8/12	Rafter Run	X	0.943	=	12/12 Rafter Length
8/12	Rafter Run	X	1.374	=	H/V Rafter Length
12/12	Rafter Run	X	1.414	=	12/12 Rafter Length
12/12	Rafter Run	X	1.500	=	8/12 Rafter Run
12/12	Rafter Run	X	2.062	=	H/V Rafter Length

8/12 First Jack Deduction - 16" O.C. (SP) 30 1/2 "
 8/12 Jack Difference - 16" O.C. 28.84" or 28 7/8 "
 12/12 First Jack Deduction - 16" O.C. (SP) 16 3/8 "
 12/12 Jack Difference. - 16" O.C. 15.08" or 15 1/8 "

8/12 First Jack Deduction - 24" O.C. (SP) 45 1/8 "
 8/12 Jack Difference. - 24" O.C. 43.27" or 43 1/4 "
 12/12 First Jack Deduction - 24" O.C. (SP) 23 7/8 "
 12/12 Jack Difference. - 24" O.C. 22.63" or 22 5/8 "

Pitch of the Hip Rafter - 9 3/8 /17				
	Hip Drop	Hip Backing Bevel	Cheek Cut	Hip Angle
8/12 Side	1/4	18 °	1 1/8	56°
12/12 Side	5/8	36 °	1/2	34°

Hip / Valley Offset from wall corner for Standard Overhangs					
Overhang	Hip	Valley	Overhang	Hip	Valley
12 "	6	4	20 "	10	6 5/8
16 "	8	5 3/8	22 "	11	7 3/8
18 "	9	6	24 "	12	8

8/12 - 34 ° 12/12 - 45 °

8/12 Run					
Inches	8/12 RL	Rise	12/12 Run	12/12 RL	H/V RL
1/4	0 1/4	0 1/8	0 1/8	0 1/4	0 3/8
1/2	0 5/8	0 3/8	0 3/8	0 1/2	0 5/8
3/4	0 7/8	0 1/2	0 1/2	0 3/4	1
1	1 1/4	0 5/8	0 5/8	0 7/8	1 3/8
1 1/4	1 1/2	0 7/8	0 7/8	1 1/8	1 3/4
1 1/2	1 3/4	1	1	1 3/8	2
1 3/4	2 1/8	1 1/8	1 1/8	1 5/8	2 3/8
2	2 3/8	1 3/8	1 3/8	1 7/8	2 3/4
2 1/4	2 3/4	1 1/2	1 1/2	2 1/8	3 1/8
2 1/2	3	1 5/8	1 5/8	2 3/8	3 3/8
2 3/4	3 1/4	1 7/8	1 7/8	2 5/8	3 3/4
3	3 5/8	2	2	2 7/8	4 1/8
3 1/4	3 7/8	2 1/8	2 1/8	3 1/8	4 1/2
3 1/2	4 1/4	2 3/8	2 3/8	3 1/4	4 3/4
3 3/4	4 1/2	2 1/2	2 1/2	3 1/2	5 1/8
4	4 3/4	2 5/8	2 5/8	3 3/4	5 1/2
4 1/4	5 1/8	2 7/8	2 7/8	4	5 7/8
4 1/2	5 3/8	3	3	4 1/4	6 1/8
4 3/4	5 3/4	3 1/8	3 1/8	4 1/2	6 1/2
5	6	3 3/8	3 3/8	4 3/4	6 7/8
5 1/4	6 1/4	3 1/2	3 1/2	4 7/8	7 1/4
5 1/2	6 5/8	3 5/8	3 5/8	5 1/8	7 1/2
5 3/4	6 7/8	3 7/8	3 7/8	5 3/8	7 7/8
6	7 1/4	4	4	5 5/8	8 1/4
6 1/4	7 1/2	4 1/8	4 1/8	5 7/8	8 5/8
6 1/2	7 3/4	4 3/8	4 3/8	6 1/8	8 7/8
6 3/4	8 1/8	4 1/2	4 1/2	6 3/8	9 1/4
7	8 3/8	4 5/8	4 5/8	6 5/8	9 5/8
7 1/4	8 3/4	4 7/8	4 7/8	6 7/8	9 7/8
7 1/2	9	5	5	7 1/8	10 1/4
7 3/4	9 3/8	5 1/8	5 1/8	7 1/4	10 5/8
8	9 5/8	5 3/8	5 3/8	7 1/2	10 7/8
8 1/4	9 7/8	5 1/2	5 1/2	7 3/4	11 3/8
8 1/2	10 1/4	5 5/8	5 5/8	8	11 5/8
8 3/4	10 1/2	5 7/8	5 7/8	8 1/4	12
9	10 7/8	6	6	8 1/2	12 3/8
9 1/4	11 1/8	6 1/8	6 1/8	8 3/4	12 3/4
9 1/2	11 3/8	6 3/8	6 3/8	8 7/8	13
9 3/4	11 3/4	6 1/2	6 1/2	9 1/4	13 3/8
10	12	6 5/8	6 5/8	9 3/8	13 3/4
10 1/4	12 3/8	6 7/8	6 7/8	9 5/8	14 1/8
10 1/2	12 5/8	7	7	9 7/8	14 3/8
10 3/4	12 7/8	7 1/8	7 1/8	10 1/8	14 3/4
11	13 1/4	7 3/8	7 3/8	10 3/8	15 1/8
11 1/4	13 1/2	7 1/2	7 1/2	10 5/8	15 1/2
11 1/2	13 7/8	7 5/8	7 5/8	10 7/8	15 3/4
11 3/4	14 1/8	7 7/8	7 7/8	11 1/8	16 1/8
12	14 3/8	8	8	11 3/8	16 1/2

8/12 Jack Rafter Length per inch of layout 1.803 "
 12/12 Jack Rafter Length per inch of layout 0.943 "
 8/12 Roof Sheathing Cut (6 5/8 - 12) 26 5/8 "
 12/12 Roof Sheathing Cut (12 3/4 - 12) 50 7/8 "