

# CHAPTER 13

## Reference

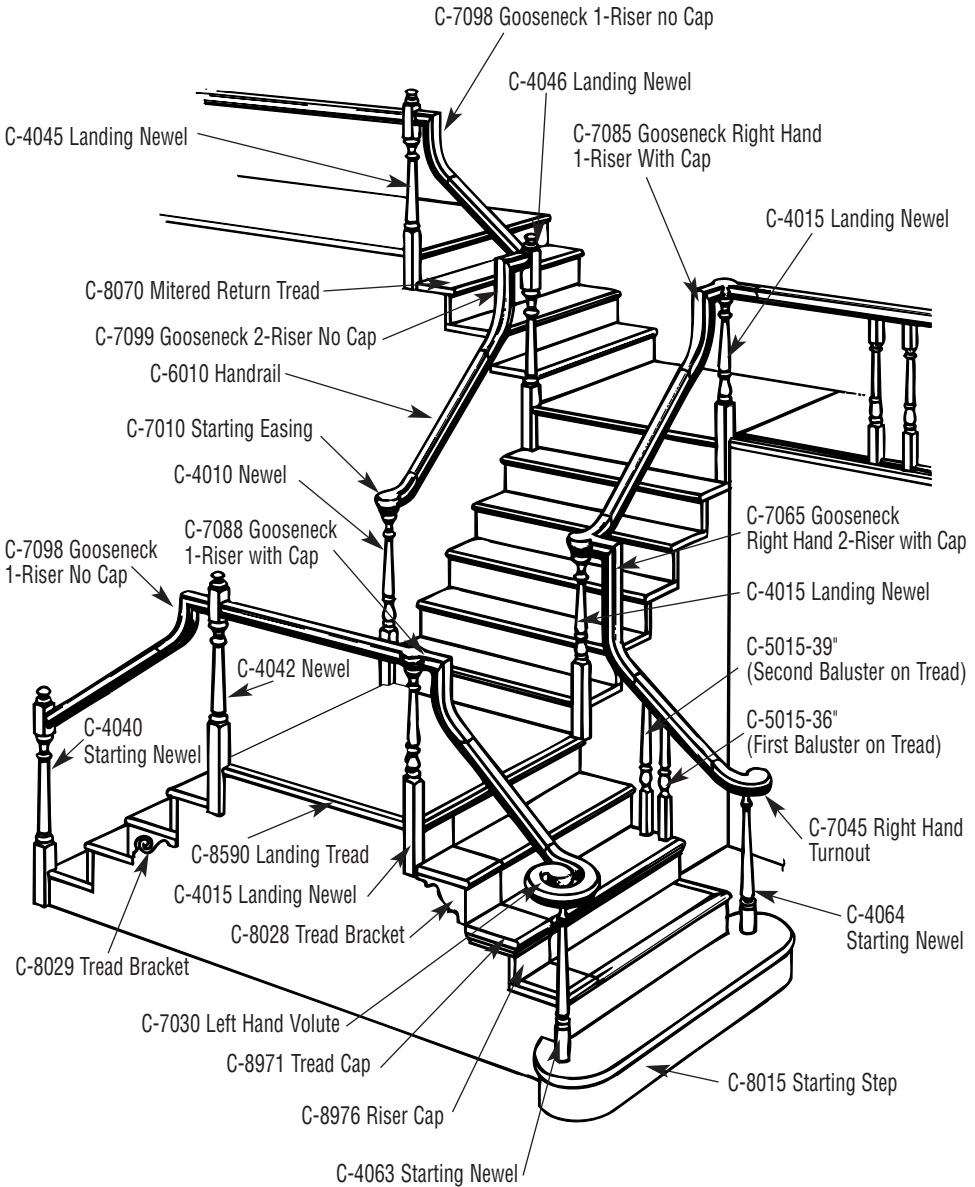
### CONVERSION CHART, FRACTIONS OF INCHES TO DECIMALS

FRACTION	DECIMAL
1/64	.0156
1/32	.0313
3/64	.0469
1/16	.0625
5/64	.0781
3/32	.0938
7/64	.1094
1/8	.1250
9/64	.1406
5/32	.1563
11/64	.1719
3/16	.1875
13/64	.2031
7/32	.2188
15/64	.2344
1/4	.2500
17/64	.2656
9/32	.2813
19/64	.2969
5/16	.3125
21/64	.3281
11/32	.3438
23/64	.3594
3/8	.3750
25/64	.3906
13/32	.4063
27/64	.4219
7/16	.4375
29/64	.4531
15/32	.4688
31/64	.4844
1/2	.5000

FRACTION	DECIMAL
33/64	.5156
17/32	.5313
35/64	.5469
9/16	.5625
37/64	.5781
19/32	.5938
39/64	.6094
5/8	.6250
41/64	.6406
21/32	.6563
43/64	.6719
11/16	.6875
45/64	.7031
23/32	.7188
47/64	.7344
3/4	.7500
49/64	.7656
25/32	.7813
51/64	.7969
13/16	.8125
53/64	.8281
27/32	.8438
55/64	.8594
7/8	.8750
57/64	.8906
29/32	.9063
59/64	.9219
15/16	.9375
61/64	.9531
31/32	.9688
63/64	.9844
1	1.0000

# ANATOMY OF A STAIR

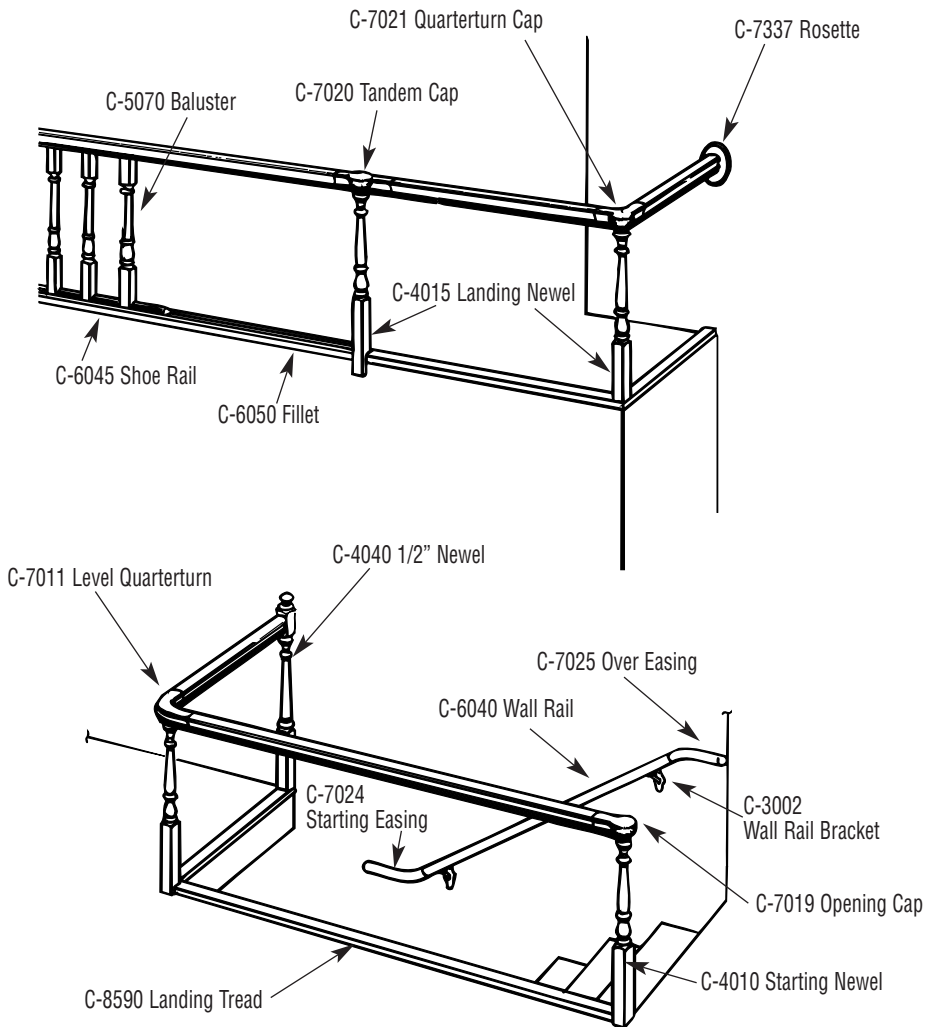
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# ANATOMY OF A STAIR

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Coffman Traditional parts are shown for a 34" rake rail height. For Hampton, Classic, Marion, Liberty, Bristol and Art Deco part numbers, consult Coffman's Buyers Guide.



# RISE-RUN ANGLE CHART

## R U N

	9"	1/8	1/4	3/8	1/2	5/8	3/4	7/8	10"	1/8	1/4	3/8	1/2	5/8	3/4	7/8	11"	1/8	1/4	3/8	1/2	5/8	3/4	7/8	12"
6"	33.7	33.3	33.0	32.6	32.3	31.9	31.6	31.3	31.0	30.7	30.3	30.0	29.7	29.5	29.2	28.9	28.6	28.3	28.1	27.8	27.6	27.3	27.1	26.8	26.6
	56.3	56.7	57.0	57.4	57.7	58.1	58.3	58.7	59.0	59.3	59.7	60.0	60.3	60.5	60.8	61.1	61.4	61.7	61.9	62.2	62.4	62.7	62.9	63.2	63.4
1/8	34.2	33.9	33.5	33.2	32.8	32.5	32.1	31.8	31.5	31.2	30.9	30.6	30.3	30.0	29.7	29.4	29.1	28.8	28.6	28.3	28.0	27.8	27.5	27.3	27.0
	55.8	56.1	56.5	56.8	57.2	57.5	57.9	58.2	58.5	58.8	59.1	59.4	59.7	60.0	60.3	60.6	60.7	61.2	61.4	61.7	62.0	62.2	62.5	62.7	63.0
1/4	34.8	34.4	34.0	33.7	33.3	33.0	32.7	32.3	32.0	31.7	31.4	31.1	30.8	30.5	30.2	29.9	29.6	29.3	29.1	28.8	28.5	28.3	28.0	27.8	27.5
	55.2	55.6	56.0	56.3	56.7	57.0	57.3	57.7	58.0	58.3	58.6	58.9	59.2	59.5	59.8	60.1	60.4	60.7	60.9	61.2	61.5	61.7	62.0	62.2	62.5
3/8	35.3	34.9	34.6	34.2	33.9	33.5	33.2	32.8	32.5	32.2	31.9	31.6	31.3	31.0	30.7	30.4	30.1	29.8	29.5	29.3	29.0	28.7	28.5	28.2	28.0
	54.7	55.1	55.4	55.8	56.1	56.5	56.8	57.2	57.5	57.8	58.1	58.4	58.7	59.0	59.3	59.6	59.9	60.2	60.5	60.7	61.0	61.3	61.5	61.8	62.0
1/2	35.8	35.4	35.1	35.7	34.4	34.0	33.7	33.3	33.0	32.7	32.4	32.1	31.8	31.5	31.2	30.9	30.6	30.3	30.0	29.7	29.5	29.2	29.0	28.7	28.4
	54.2	54.6	54.9	55.3	55.6	56.0	56.3	56.7	57.0	57.3	57.6	57.9	58.2	58.5	58.8	59.1	59.4	59.7	60.0	60.3	60.5	60.8	61.0	61.3	61.6
5/8	36.4	36.0	35.6	35.2	34.9	34.5	34.2	33.9	33.5	33.2	32.9	32.6	32.3	31.9	31.6	31.3	31.1	30.8	30.5	30.2	30.0	29.7	29.4	29.2	28.9
	53.6	54.0	54.4	54.8	55.1	55.5	55.8	56.1	56.5	56.8	57.1	57.4	57.7	58.1	58.4	58.7	58.9	59.2	59.5	59.8	60.0	60.3	60.6	60.8	61.1
3/4	36.9	36.5	36.1	35.8	35.4	35.0	34.7	34.3	34.0	33.7	33.4	33.0	32.7	32.4	32.1	31.8	31.5	31.2	31.0	30.7	30.4	30.1	29.9	29.6	29.4
	53.1	53.5	53.9	54.2	54.6	55.0	55.3	55.7	56.0	56.3	56.6	57.0	57.3	57.6	57.9	58.2	58.5	58.8	59.0	59.3	59.6	59.9	60.1	60.4	60.6
7/8	37.4	37.0	36.6	36.3	35.9	35.5	35.2	34.8	34.5	34.2	33.9	33.5	33.2	32.9	32.6	32.3	32.0	31.7	31.4	31.1	30.9	30.6	30.3	30.1	29.8
	52.6	53.0	53.4	53.7	54.1	54.5	54.8	55.2	55.5	55.8	56.1	56.5	56.8	57.1	57.4	57.7	58.0	58.3	58.6	58.9	59.1	59.4	59.7	59.9	60.2
7"	37.9	37.5	37.1	36.7	36.4	36.0	35.7	35.3	35.0	34.7	34.3	34.0	33.7	33.4	33.1	32.8	32.5	32.2	31.9	31.6	31.3	31.1	30.8	30.5	30.3
	52.1	52.5	52.9	53.3	53.6	54.0	54.3	54.7	55.0	55.3	55.7	56.0	56.3	56.6	56.9	57.2	57.5	57.8	58.1	58.4	58.7	58.9	59.1	59.5	59.7
1/8	38.4	38.0	37.6	37.2	36.9	36.5	36.2	35.8	35.5	35.1	34.8	34.6	34.2	33.8	33.5	33.2	32.9	32.6	32.3	32.1	31.8	31.5	31.2	31.0	30.7
	51.6	52.0	52.4	52.8	53.1	53.5	53.8	54.2	54.5	54.9	55.2	55.5	55.8	56.2	56.5	56.8	57.1	57.4	57.7	57.9	58.2	58.5	58.8	59.0	59.3
1/4	38.9	38.5	38.1	37.7	37.3	37.0	36.6	36.3	35.9	35.6	35.3	34.9	34.6	34.3	34.0	33.7	33.4	33.1	32.8	32.5	32.2	32.0	31.7	31.4	31.1
	51.1	51.5	51.9	52.3	52.7	53.0	53.4	53.7	54.1	54.4	54.7	55.1	55.4	55.7	56.0	56.3	56.6	56.9	57.2	57.5	57.8	58.0	58.3	58.6	58.9
3/8	39.3	39.0	38.6	38.2	37.8	37.5	37.1	36.8	36.4	36.1	35.7	35.4	35.1	34.8	34.5	34.1	33.8	33.5	33.2	33.0	32.7	32.4	32.1	31.8	31.6
	50.7	51.0	51.4	51.8	52.2	52.5	52.9	53.2	53.6	53.9	54.3	54.6	54.9	55.2	55.5	55.9	56.2	56.5	56.8	57.0	57.3	57.6	57.9	58.2	58.4
1/2	39.8	39.4	39.0	38.7	38.3	37.9	37.6	37.2	36.9	36.5	36.2	35.9	35.5	35.2	34.9	34.6	34.3	34.0	33.7	33.4	33.1	32.8	32.6	32.3	32.0
	50.2	50.6	51.0	51.3	51.7	52.1	52.4	52.8	53.1	53.5	53.8	54.1	54.5	54.8	55.1	55.4	55.7	56.0	56.3	56.6	56.9	57.2	57.4	57.7	58.0
5/8	40.3	39.9	39.5	39.1	38.8	38.4	38.0	37.7	37.3	37.0	36.6	36.3	36.0	35.7	35.3	35.0	34.7	34.4	34.1	33.8	33.5	33.3	33.0	32.7	32.4
	49.7	50.1	50.4	50.9	51.2	51.6	52.0	52.3	52.7	53.0	53.4	53.7	54.0	54.3	54.7	55.0	55.3	55.6	55.9	56.2	56.5	56.7	57.0	57.3	57.6
3/4	40.7	40.3	40.0	39.6	39.2	38.8	38.5	38.1	37.8	37.4	37.1	36.8	36.4	36.1	35.8	35.5	35.2	34.9	34.6	34.3	34.0	33.7	33.4	33.1	32.9
	49.3	49.7	50.0	50.4	50.8	51.2	51.5	51.9	52.2	52.6	52.9	53.2	53.6	53.9	54.2	54.5	54.8	55.1	55.4	55.7	56.0	56.3	56.6	56.9	57.1
7/8	41.2	40.8	40.4	40.0	39.7	39.3	38.9	38.6	38.2	37.9	37.5	37.2	36.9	36.5	36.2	35.9	35.6	35.3	35.0	34.7	34.4	34.1	33.8	33.6	33.3
	48.8	49.2	49.6	50.0	50.3	50.7	51.1	51.4	51.8	52.1	52.5	52.8	53.1	53.5	53.8	54.1	54.4	54.7	55.0	55.3	55.6	55.9	56.2	56.4	56.7
8"	41.6	41.2	40.9	40.5	40.1	39.7	39.4	39.0	38.7	38.3	38.0	37.6	37.3	37.0	36.7	36.3	36.0	35.7	35.4	35.1	34.8	34.5	34.2	34.0	33.7
	48.4	48.8	49.1	49.5	49.9	50.3	50.6	51.0	51.3	51.7	52.0	52.4	52.7	53.0	53.3	53.7	54.0	54.3	54.6	54.9	55.2	55.5	55.8	56.0	56.3
1/8	42.1	41.7	41.3	40.9	40.5	40.2	39.8	39.4	39.1	38.7	38.4	38.1	37.7	37.4	37.1	36.8	36.5	36.1	35.8	35.5	35.2	35.0	34.7	34.4	34.1
	47.9	48.3	48.7	49.1	49.5	49.8	50.2	50.6	50.9	51.3	51.6	51.9	52.3	52.6	52.9	53.2	53.5	53.9	54.2	54.5	54.8	55.0	55.3	55.6	55.9
1/4	42.5	42.1	41.7	41.3	41.0	40.6	40.2	39.9	39.5	39.2	38.8	38.5	38.2	37.8	37.5	37.2	36.9	36.6	36.3	36.0	35.7	35.4	35.1	34.8	34.5
	47.5	47.9	48.3	48.7	49.0	49.4	49.8	50.1	50.5	50.8	51.2	51.5	51.8	52.2	52.5	52.8	53.1	53.4	53.7	54.0	54.3	54.6	54.9	55.2	55.5
3/8	42.9	42.5	42.2	41.8	41.4	41.0	40.7	40.3	39.9	39.6	39.3	38.9	38.6	38.2	37.9	37.6	37.3	37.0	36.7	36.4	36.1	35.8	35.5	35.2	34.9
	47.1	47.5	47.8	48.2	48.6	49.0	49.3	49.7	50.1	50.4	50.7	51.1	51.4	51.8	52.1	52.4	52.7	53.0	53.3	53.6	53.9	54.2	54.5	54.8	55.1
1/2	43.4	43.0	42.6	42.2	41.8	41.4	41.1	40.7	40.4	40.0	39.7	39.3	39.0	38.7	38.3	38.0	37.7	37.4	37.1	36.8	36.5	36.2	35.9	35.6	35.3
	46.6	47.0	47.4	47.8	48.2	48.6	48.9	49.3	49.6	50.0	50.3	50.7	51.0	51.3	51.7	52.0	52.3	52.6	52.9	53.2	53.5	53.8	54.1	54.4	54.7

Top Number = Angle of Stair.

Bottom Number = 90° Minus Angle of Stair.

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