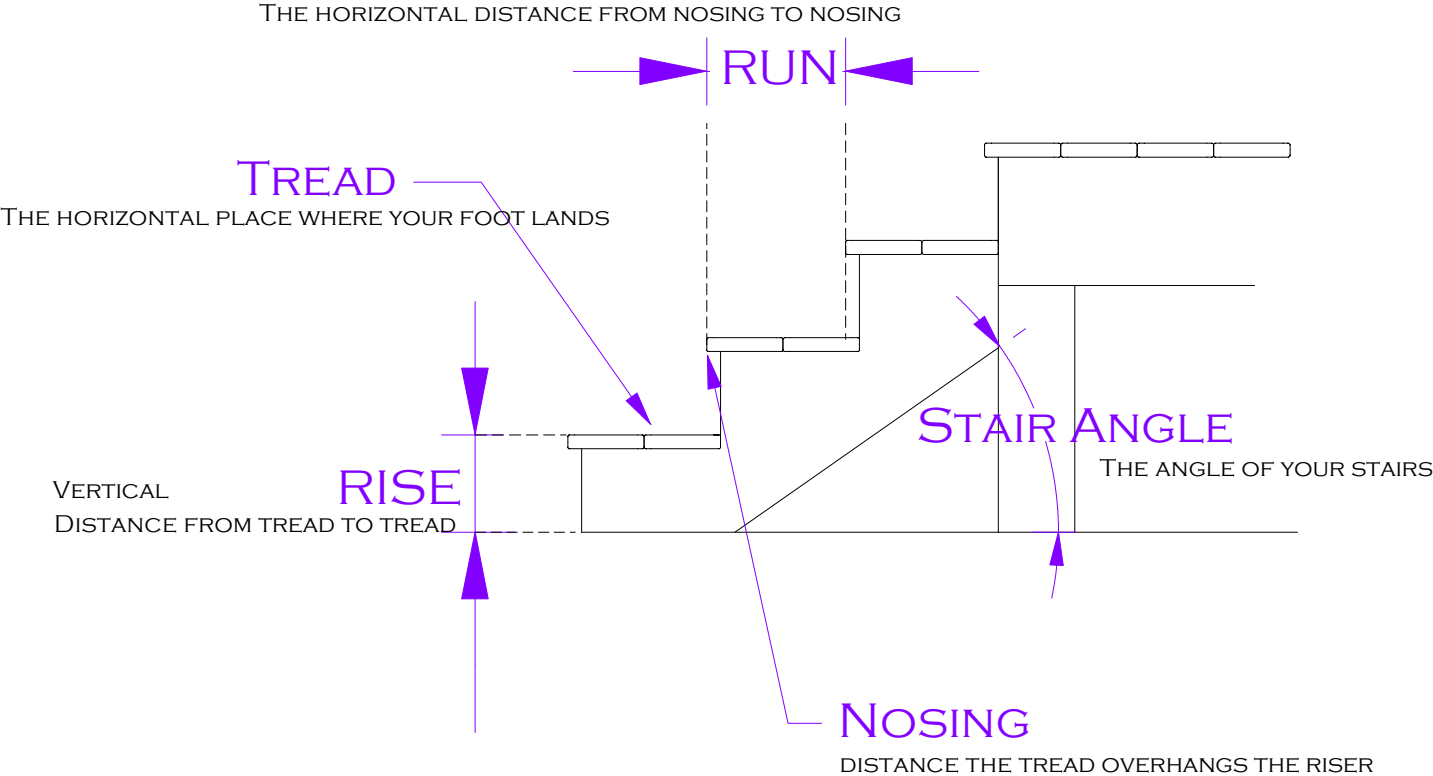
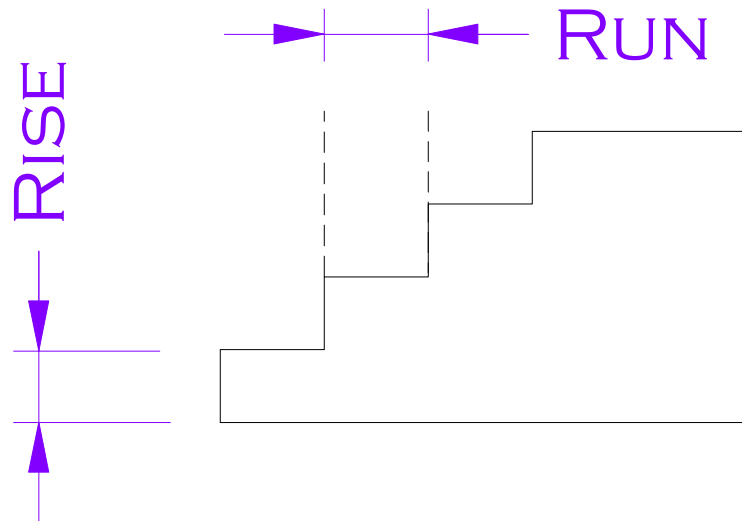


DEFINITIONS



HOW TO MEASURE YOUR STAIRS
TO DETERMINE THE ANGLE NEEDED
FOR YOUR RAILINGS
FOR STEPS WITHOUT NOSING



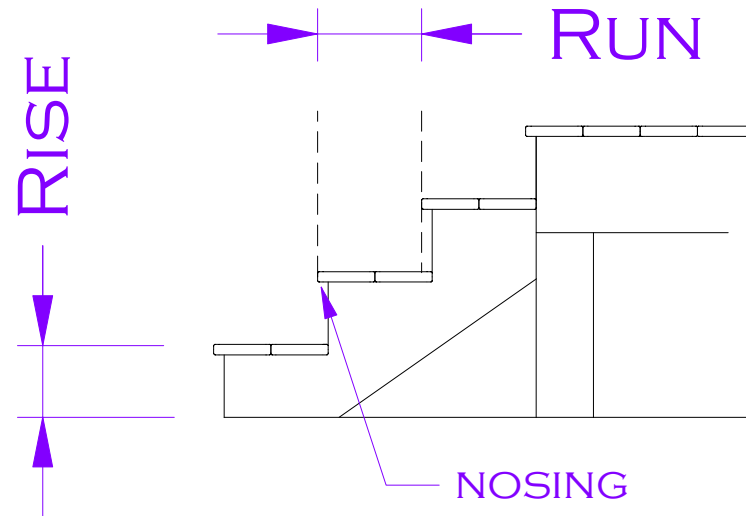
THE RISE IS THE VERTICAL DISTANCE FROM THE TOP OF STEP TO TOP OF STEP

THE RUN IS THE HORIZONTAL DISTANCE FROM RISER TO RISER

RISE AND RUN SHOULD BE CONSISTENT

WHEN THEY ARE NOT - YOU MUST MAKE A JUDGEMENT CALL

HOW TO MEASURE YOUR STAIRS
TO DETERMINE THE ANGLE NEEDED
FOR YOUR RAILINGS
FOR STEPS WITH NOSING



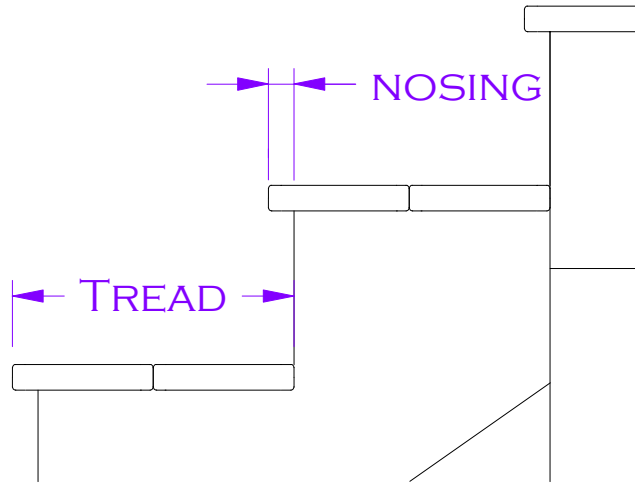
THE RISE IS THE VERTICAL DISTANCE FROM THE TOP OF STEP TO TOP OF STEP

THE RUN IS THE HORIZONTAL DISTANCE FROM NOSING TO NOSING

RISE AND RUN SHOULD BE CONSISTENT

WHEN THEY ARE NOT - YOU MUST MAKE A JUDGEMENT CALL

NOSING IS THE OVERHANG OF THE TREAD
WHEN MEASURING THE RUN YOU CAN MEASURE THE TREAD
AND SUBTRACT THE NOSING



Degree based on rise and run in RED

RISE	RUN													
	8.00	8.25	8.50	8.75	9.00	9.25	9.50	9.75	10.00	10.25	10.50	10.75	11.00	11.25
4.00	26.6	25.9	25.2	24.6	24.0	23.4	22.8	22.3	21.8	21.3	20.9	20.4	20.0	19.6
4.25	28.0	27.3	26.6	25.9	25.3	24.7	24.1	23.6	23.0	22.5	22.0	21.6	21.1	20.7
4.50	29.4	28.6	27.9	27.2	26.6	25.9	25.3	24.8	24.2	23.7	23.2	22.7	22.2	21.8
4.75	30.7	29.9	29.2	28.5	27.8	27.2	26.6	26.0	25.4	24.9	24.3	23.8	23.4	22.9
5.00	32.0	31.2	30.5	29.7	29.1	28.4	27.8	27.1	26.6	26.0	25.5	24.9	24.4	24.0
5.25	33.3	32.5	31.7	31.0	30.3	29.6	28.9	28.3	27.7	27.1	26.6	26.0	25.5	25.0
5.50	34.5	33.7	32.9	32.2	31.4	30.7	30.1	29.4	28.8	28.2	27.6	27.1	26.6	26.1
5.75	35.7	34.9	34.1	33.3	32.6	31.9	31.2	30.5	29.9	29.3	28.7	28.1	27.6	27.1
6.00	36.9	36.0	35.2	34.4	33.7	33.0	32.3	31.6	31.0	30.3	29.7	29.2	28.6	28.1
6.25	38.0	37.1	36.3	35.5	34.8	34.0	33.3	32.7	32.0	31.4	30.8	30.2	29.6	29.1
6.50	39.1	38.2	37.4	36.6	35.8	35.1	34.4	33.7	33.0	32.4	31.8	31.2	30.6	30.0
6.75	40.2	39.3	38.5	37.6	36.9	36.1	35.4	34.7	34.0	33.4	32.7	32.1	31.5	31.0
7.00	41.2	40.3	39.5	38.7	37.9	37.1	36.4	35.7	35.0	34.3	33.7	33.1	32.5	31.9
7.25	42.2	41.3	40.5	39.6	38.9	38.1	37.3	36.6	35.9	35.3	34.6	34.0	33.4	32.8
7.50	43.2	42.3	41.4	40.6	39.8	39.0	38.3	37.6	36.9	36.2	35.5	34.9	34.3	33.7
7.75	44.1	43.2	42.4	41.5	40.7	40.0	39.2	38.5	37.8	37.1	36.4	35.8	35.2	34.6
8.00	45.0	44.1	43.3	42.4	41.6	40.9	40.1	39.4	38.7	38.0	37.3	36.7	36.0	35.4

Degree based on rise and run in RED

RISE	RUN														
	11.50	11.75	12.00	12.25	12.50	12.75	13.00	13.25	13.50	13.75	14.00	14.25	14.50	14.75	15.00
4.00	19.2	18.8	18.4	18.1	17.7	17.4	17.1	16.8	16.5	16.2	15.9	15.7	15.4	15.2	14.9
4.25	20.3	19.9	19.5	19.1	18.8	18.4	18.1	17.8	17.5	17.2	16.9	16.6	16.3	16.1	15.8
4.50	21.4	21.0	20.6	20.2	19.8	19.4	19.1	18.8	18.4	18.1	17.8	17.5	17.2	17.0	16.7
4.75	22.4	22.0	21.6	21.2	20.8	20.4	20.1	19.7	19.4	19.1	18.7	18.4	18.1	17.9	17.6
5.00	23.5	23.1	22.6	22.2	21.8	21.4	21.0	20.7	20.3	20.0	19.7	19.3	19.0	18.7	18.4
5.25	24.5	24.1	23.6	23.2	22.8	22.4	22.0	21.6	21.3	20.9	20.6	20.2	19.9	19.6	19.3
5.50	25.6	25.1	24.6	24.2	23.7	23.3	22.9	22.5	22.2	21.8	21.4	21.1	20.8	20.4	20.1
5.75	26.6	26.1	25.6	25.1	24.7	24.3	23.9	23.5	23.1	22.7	22.3	22.0	21.6	21.3	21.0
6.00	27.6	27.1	26.6	26.1	25.6	25.2	24.8	24.4	24.0	23.6	23.2	22.8	22.5	22.1	21.8
6.25	28.5	28.0	27.5	27.0	26.6	26.1	25.7	25.3	24.8	24.4	24.1	23.7	23.3	23.0	22.6
6.50	29.5	29.0	28.4	28.0	27.5	27.0	26.6	26.1	25.7	25.3	24.9	24.5	24.1	23.8	23.4
6.75	30.4	29.9	29.4	28.9	28.4	27.9	27.4	27.0	26.6	26.1	25.7	25.3	25.0	24.6	24.2
7.00	31.3	30.8	30.3	29.7	29.2	28.8	28.3	27.8	27.4	27.0	26.6	26.2	25.8	25.4	25.0
7.25	32.2	31.7	31.1	30.6	30.1	29.6	29.1	28.7	28.2	27.8	27.4	27.0	26.6	26.2	25.8
7.50	33.1	32.6	32.0	31.5	31.0	30.5	30.0	29.5	29.1	28.6	28.2	27.8	27.3	27.0	26.6
7.75	34.0	33.4	32.9	32.3	31.8	31.3	30.8	30.3	29.9	29.4	29.0	28.5	28.1	27.7	27.3
8.00	34.8	34.2	33.7	33.1	32.6	32.1	31.6	31.1	30.7	30.2	29.7	29.3	28.9	28.5	28.1