

# Physical Trap Layout

Software Version 3.1.0    March 17, 2011    Document Rev: None

On page 2 and 3, you will find the dimensions for three (3) floor layouts. They are the 8 foot, 9 foot, and 10 foot layouts.

Ceiling height: The required ceiling height is a function of your height. Add twenty (20) inches to your horizon height (the distance from your eyeball to the floor) and that will be your minimum ceiling height.

Use the floor layout dimensions on page 2 and 3 to help you map out five (5) shooting locations on the floor over which you will stand during the shooting process. I suggest you put an "X" on the floor (using masking tape) to mark the location of each station. The "X" actually marks the location of your shooting eyeball. If a friend dropped a plumb line from your shooting eye when you are in your stance and ready to shoot, your eye should be directly above the "X" on the floor.

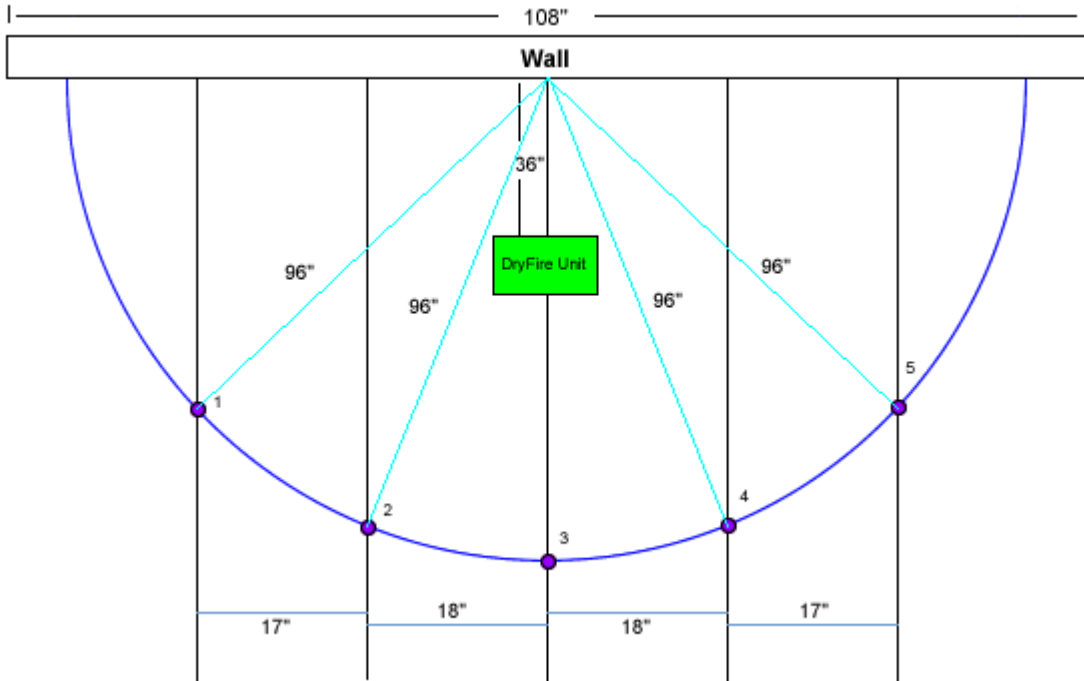
I recommend you place the DryFire unit 50 inches from the wall and 50 inches above the floor. You can change these numbers to meet your room requirements as long as you remember to enter the information in the "Configuration Settings" table. The "Simulator to Wall" and "Simulator Height" measurements are from the center top surface of the bubble level.

Mounting your Traphouse: I suggest you mount a wooden shelf on the wall for the Styrofoam traphouse to sit on. The height of the roof at 16-yards is a function of how tall you are and the distance you are standing from the shooting wall. However, if you mount the canvas on the wall so the canvas horizon (where the grass meets the tree line) is at your eyeball height, then the roof of the traphouse will be 8 to 12 inches below your horizon. How far below the horizon is determined by how far you are standing from the shooting wall. Details are found in the document labeled "**Traphouse Roof Height,**" found on the last page of this document. Since the traphouse is 6 inches high, make sure you mount the wooden shelf 6 inches below where you want the roof to be.

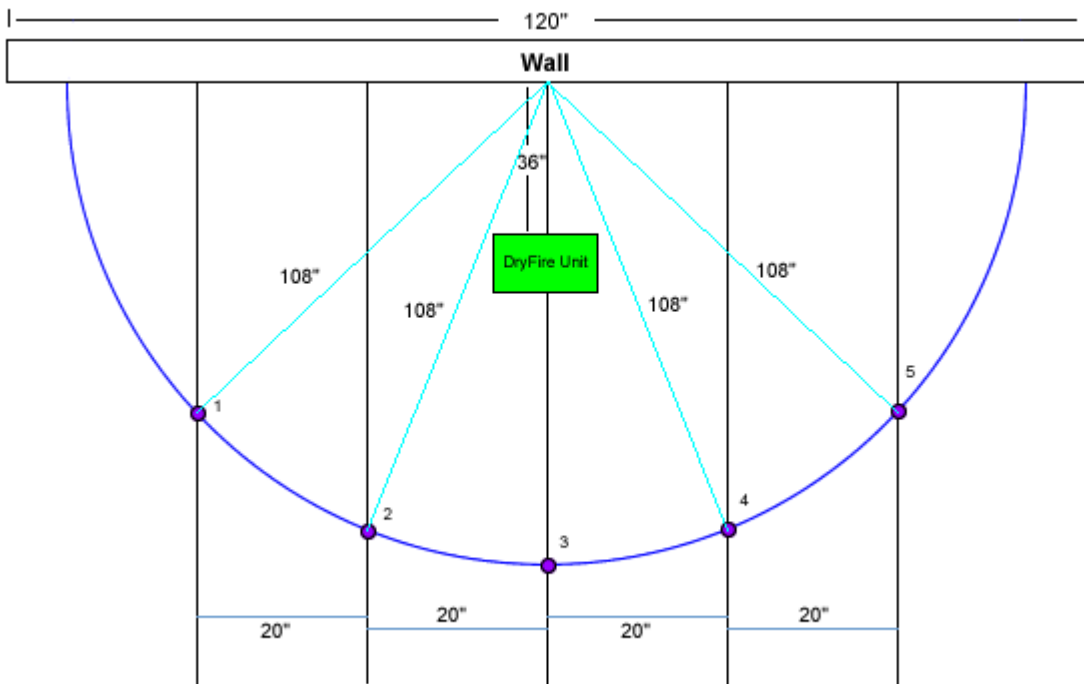
Handicap: When you shoot Handicap targets, you will find that the roof of the traphouse elevates in your perspective. Therefore, with 16-yard targets adjusted perfectly so the target starts right at the roof, select your handicap distance. Now begin calling for targets and notice that the targets are starting above the roof. With a ruler, measure how far above the roof the targets are starting (this could be up to 4 inches). Now make a spacer (perhaps out of Styrofoam) that is the thickness you just measured. The next step is easy, lift the traphouse up and slide the spacer under the traphouse and set it back down. Your roof is now in exactly the right place and you can change back and forth between 16-yard targets and your handicap distance with ease.

The most convenient place to locate your computer is directly in front of Station 3, between Station 3 and The DryFire unit. This works great, because it places the computer monitor directly in front of you the shooter. Most monitors are built on a swivel and this allows you to see the screen from all five locations. Also, a side benefit is that the position of the computer prevents you and your friends from tripping on the cables and cords going to the computer and DryFire unit. The DryFire head is fragile and can be broken off if the DryFire unit gets knocked over.

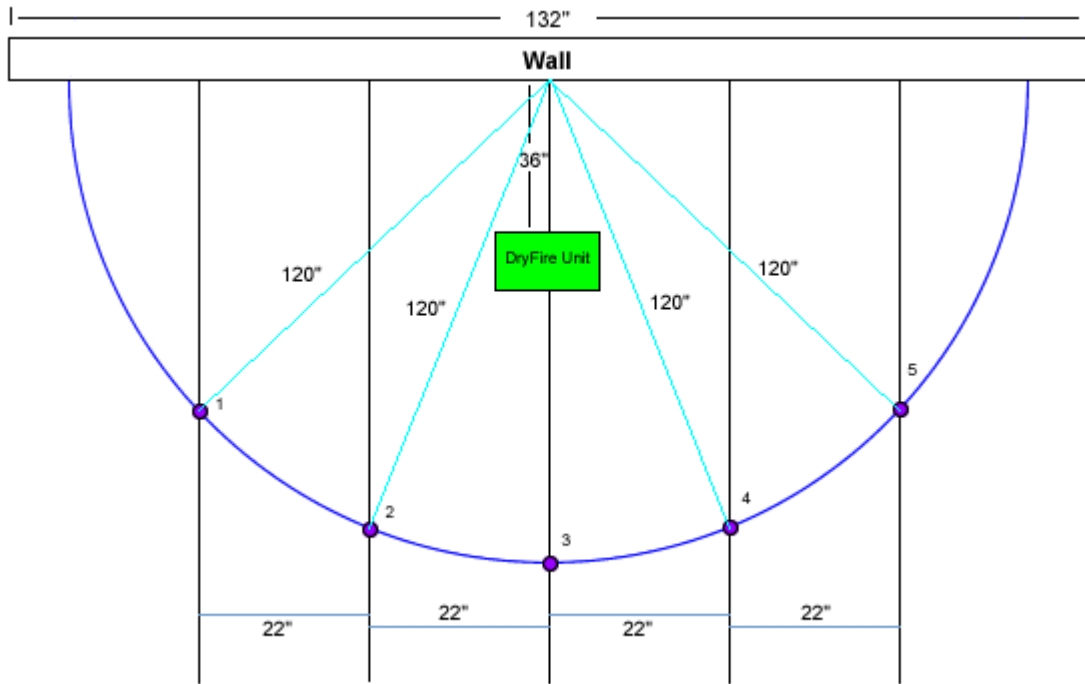
Standing 8' from the wall



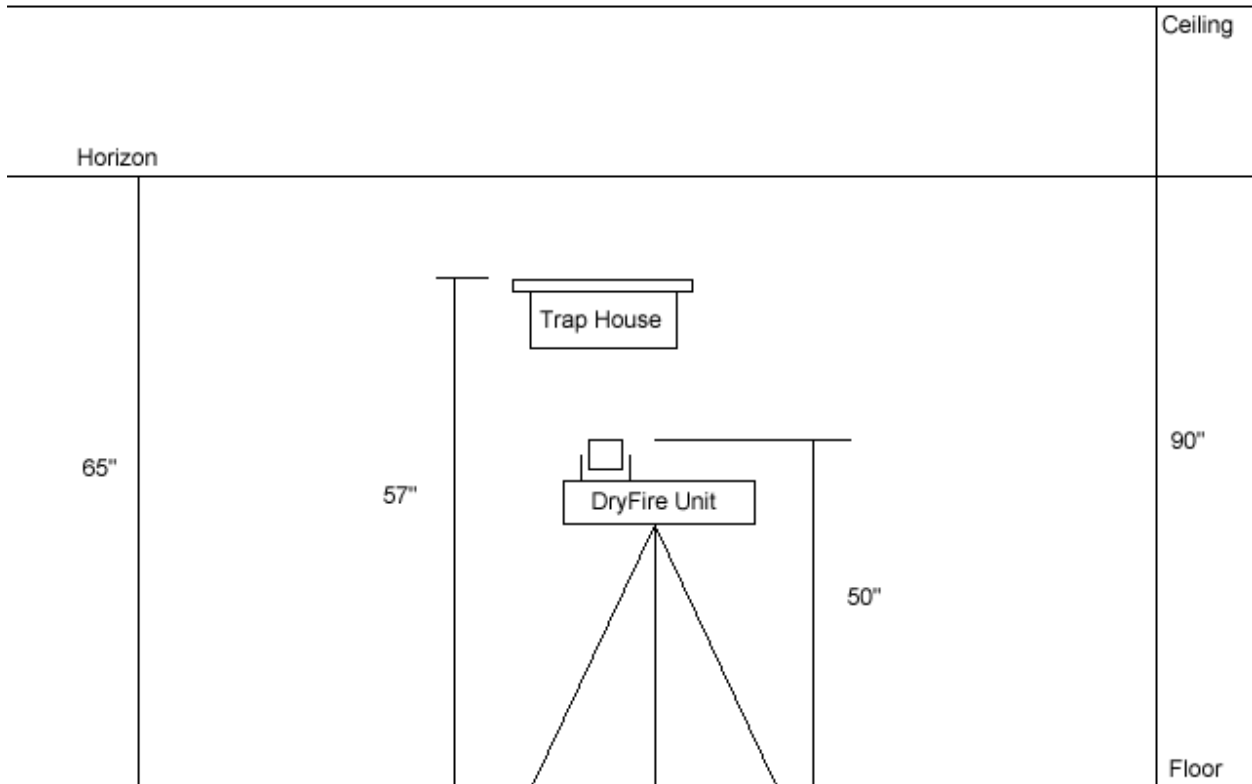
Standing 9' from the wall



Standing 10' from the wall



Wall Orientation (this is just an example, but gives you an idea of what your setup will look like)



# Traphouse Roof Height

The height of the Traphouse roof is determined by where you see the horizon (the distance from your eyeball to the floor) and how far you are standing from the shooting wall.

In the chart below, find your eyeball height (in inches) across the top of the chart and your distance from the wall on the left side of the chart. Where the vertical column and the horizontal row intersect is the proper roof height for you.

	DISTANCE FROM YOUR EYEBALL TO THE FLOOR												
	58	59	60	61	62	63	64	65	66	67	68	69	70
Shooter to Wall = 96	50	51	52	53	54	55	56	57	58	59	60	61	62
Shooter to Wall = 108	49	50	51	52	53	54	55	56	57	58	59	60	61
Shooter to Wall = 120	48	49	50	51	52	53	54	55	56	57	58	59	60
Shooter to Wall = 132	47	48	49	50	51	52	53	54	55	56	57	58	59
Shooter to Wall = 144	46	47	48	49	50	51	52	53	54	55	56	57	58

Example: I see the horizon at 64 inches. I then found the column labeled 64 across the top of the chart. I am shooting from 108 inches so I found the row labeled (Shooter to Wall = 108) on the left edge of the chart. At the intersection of the vertical column and the horizontal row, I found 55. Therefore, I will place my traphouse on the wall with the roof at 55 inches above the floor.