Billboard Sized Banner Drop

11/24/2021

Billboard Sized Banner Drop

Performing this action can be divided into two parts that require extensive preparation: Creation and Deployment



Illustration 1: Banner drop in Missouri. 46' by 14'



Illustration 2: Rough banner specification

- Glue should be 'Liquid Nails'
- Outside banner edges ٠
 - The outside banner edges have 3 layers of tape on the outside edges
 - This protects the edges and ensures that there are no rips
- Merging banners together

Banner Creation (46' by 14')

- As can be seen in Illustration 1, there are 8 drop cloths in total.
 - 4 form the top half and 4 form the bottom half.
- Drop cloths used are too thick to utilize staples, so instead the drop cloths are bonded utilizing a glue gun.
 - A significant overlap is used when merging banners, typically a foot.
 - When combining drop cloths, you lose a good amount of width and height due to overlap.
 - After bonding, three layers of tape should be placed over the seams.
- Top Grommets
 - Calculating the minimum and location of top grommets is important. These grommets help ensure that the bonded banners seams does not break by relieving pressure on the seams.
 - In particular, you want the grommets near the seams / weak points.
 - In the previous version, 6 feet of rope is used
 - Evenly Sapced
 - A good amount of rope to buy is 100 feet, this should fulfill all rope needs.
 - Rope
 - The holes for the rope grommets should be 8 inches to a foot down.
 - 4 feet of rope for the middle grommets.
 - 5 feet of rope for the grommets on the corners.
 - A simple knot tied twice is used.
- Bottom Waterbottle Grommets
 - Calculating the number and location of the bottom grommets is important. Too many bottom grommets, the banner rips when deployed. Too little, and the wind will blow the banner.
 - These water bottles differ from typical water bottles.
 - These waterbottles are first drained of $\frac{1}{2}$ of the water and twisted in the middle section.
 - In this way, rope can be tied to the bottle in the most effective way possible.
 - The waterbottles are also spray painted black to enhance the banner's appearance
 - \circ 2 feet of rope should be allocated for waterbottles

Banner Deployment

A high degree of preparation is necessary. Prepare for the unexpected.

- Personnel
 - More members are recommended, but the first banner drop had 4 members
 - 2 climbers
 - 1 at the base of the billboard
 - 1 on overwatch issuing commands
- Climbing
 - Telescopic ladder
 - Need to be drilled on how to climb these, do not want a rookie to perform
 - Can practice many times on an extension ladder