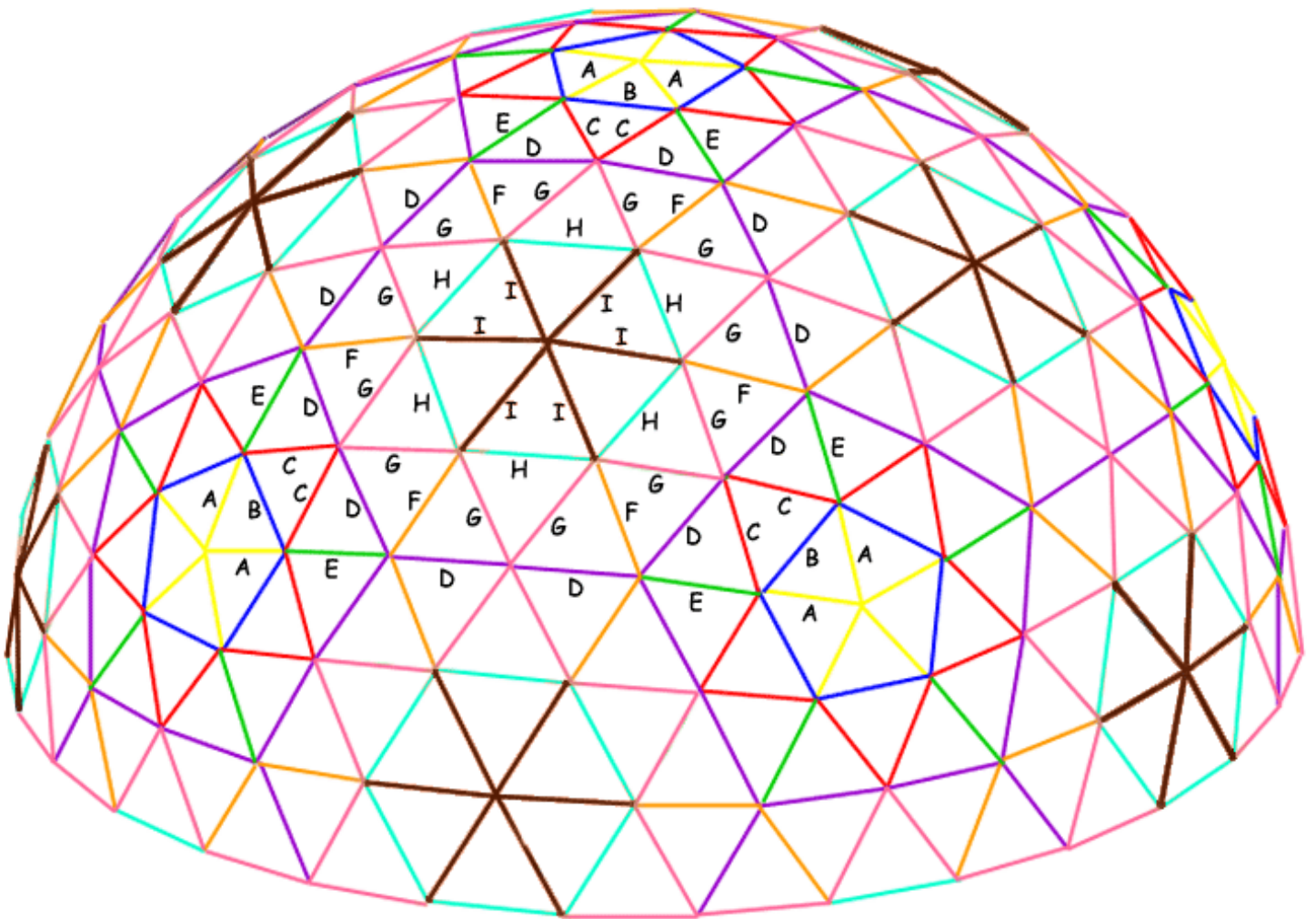




# Frequency 6 (6V) Standard Dome For Sonostar Hubs and 1/2" PVC



ALWAYS check the color codes before you glue the struts to the hubs. This graphic will serve as your map in building your dome. It is a symmetrical pattern, so the opposite side is a continuation of the pattern seen here. Following the instructions is optional, but highly recommended!



## Step by Step Instructions to build a Geodesic Dome Using Sonostar **hardcore** Geohubs

1. Use the Standard Dome calculator to determine the correct length of the different size struts
2. Print out a copy of the strut lengths to have handy while you're cutting them.
3. Cut all your struts before you begin. Use Schedule 40 or higher for strength.
4. Use a PVC cutting tool to cut the pipe, or set up a cutoff saw.
5. Color code all your struts with a stripe of colored electrical tape about 6" from either end
6. Follow the color coded map – print several copies and affix them to something stiff, like cardboard or clear plastic
7. Lay all your parts out beforehand and make a final count
8. Have enough PVC primer and welding glue on hand to do the job
9. Apply primer to all your struts prior to beginning
10. If your radius is more than 8', be sure to have a ladder on hand
11. Build your dome on a flat surface, if possible
12. Start from the ground up, putting together all the perimeter pieces first
13. Make sure the curvature of the ground pieces is correct, with all the geohubs oriented in/out
14. Push the struts all the way into the geohubs. Use a hard rubber mallet (if available) to bump the struts to the end of the hubs.
15. Lay out one row in advance and have someone else double check the color coding using the map guide. The welding cement sets up almost immediately, and you don't want to mess up.
16. You can use the hubs as a template for drilling, but make sure the hub is all the way in. Then drill from one side, and then the other. If you try to drill all the way through, you may damage the hub if you come out in the wrong place.
17. Designate someone to be the photographer. Tell them it's their job.
18. PVC can get brittle when exposed to prolonged UV rays (like anywhere outside) A coat of spray paint will protect the pipes and the hubs.
19. If you're building a Frequency 6 dome, don't confuse blue and turquoise, or red and pink - length struts. When you print out the map diagram, some printers make the colors look very similar. Always check the letter-codes for those colors, too.