

Gore Dome Dimensions: 5 Meter Dome

Created by Adam Goss: DIY PLANETARIUM

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Gore dome patterns for 4 meter planetarium dome ~~WITHOUT OVERLAPPING SEAMS~~

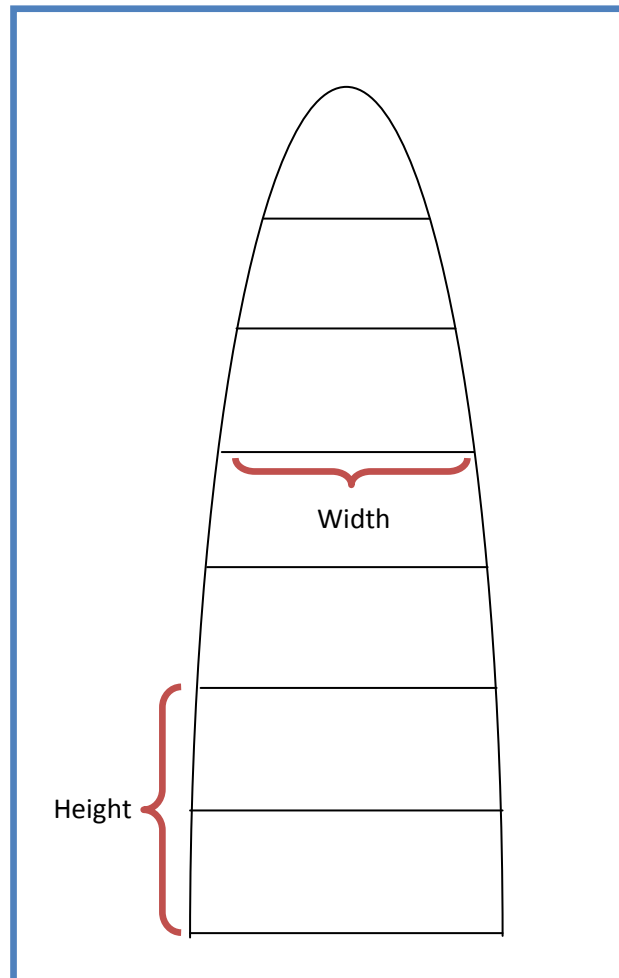
Number of Sections: 13

Total Length Material Needed: 63 Meters

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Height	Width
0.000	0.967
0.157	0.964
0.314	0.955
0.471	0.940
0.628	0.919
0.785	0.893
0.942	0.861
1.100	0.824
1.257	0.782
1.414	0.735
1.571	0.684
1.728	0.628
1.885	0.568
2.042	0.505
2.199	0.439
2.356	0.370
2.513	0.299
2.670	0.226
2.827	0.141
2.985	0.076
3.142	0.000

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Gore dome patterns for 4 meter planetarium dome WITH OVERLAPPING SEAMS: 3CM SEAM

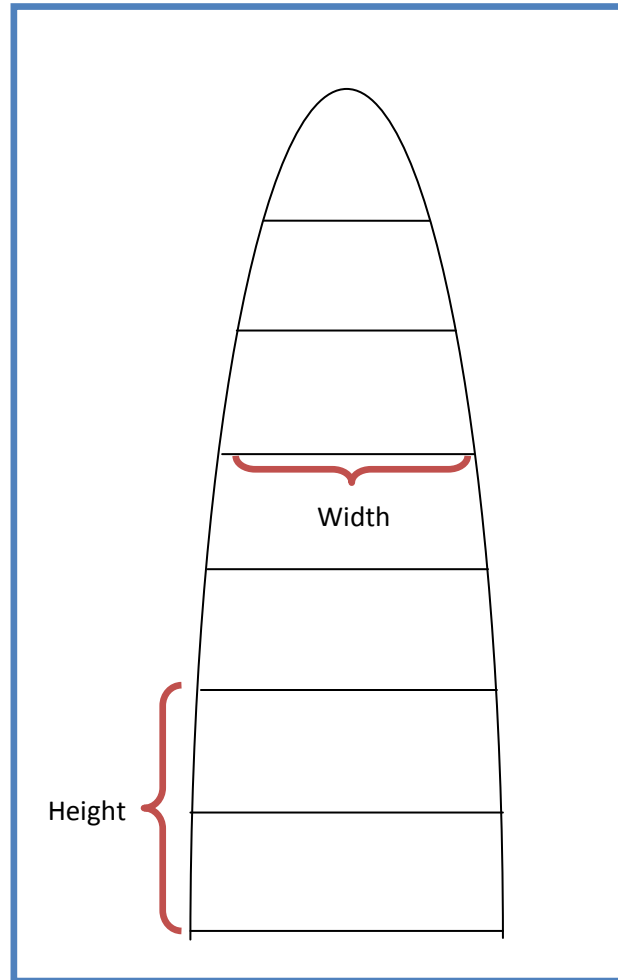
Number of Sections: 14

Seam: 3 centimeters overlap.

Total Length Material: 66 Meters

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Height	Width
0.000	0.958
0.157	0.955
0.314	0.947
0.471	0.933
0.628	0.914
0.785	0.889
0.942	0.860
1.100	0.825
1.257	0.786
1.414	0.743
1.571	0.695
1.728	0.643
1.885	0.588
2.042	0.529
2.199	0.468
2.356	0.403
2.513	0.337
2.670	0.270
2.827	0.200
2.985	0.130
3.142	0.060



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The dome above labeled 4 meter planetarium dome WITH OVERLAPPING SEAMS is a Gore dome designed with overlapping seams in mind. Each gore section will have an extra 3 centimeters on EACH EDGE to be used for attaching to another gore section's seam. This method requires 14 gore sections instead of 13. The height listed in column 1 is the **distance in meters** the next width should be marked from the bottom of the gore. This is important. Each width going up the gore section should be ~20 cm higher than the next, but use the height's specified in the table. Again, each height measurement is from the **BOTTOM** of the gore and is not the distance in between each part.