

User manual for the *'Marshmallow Geodesic Greenhouse Dome'*

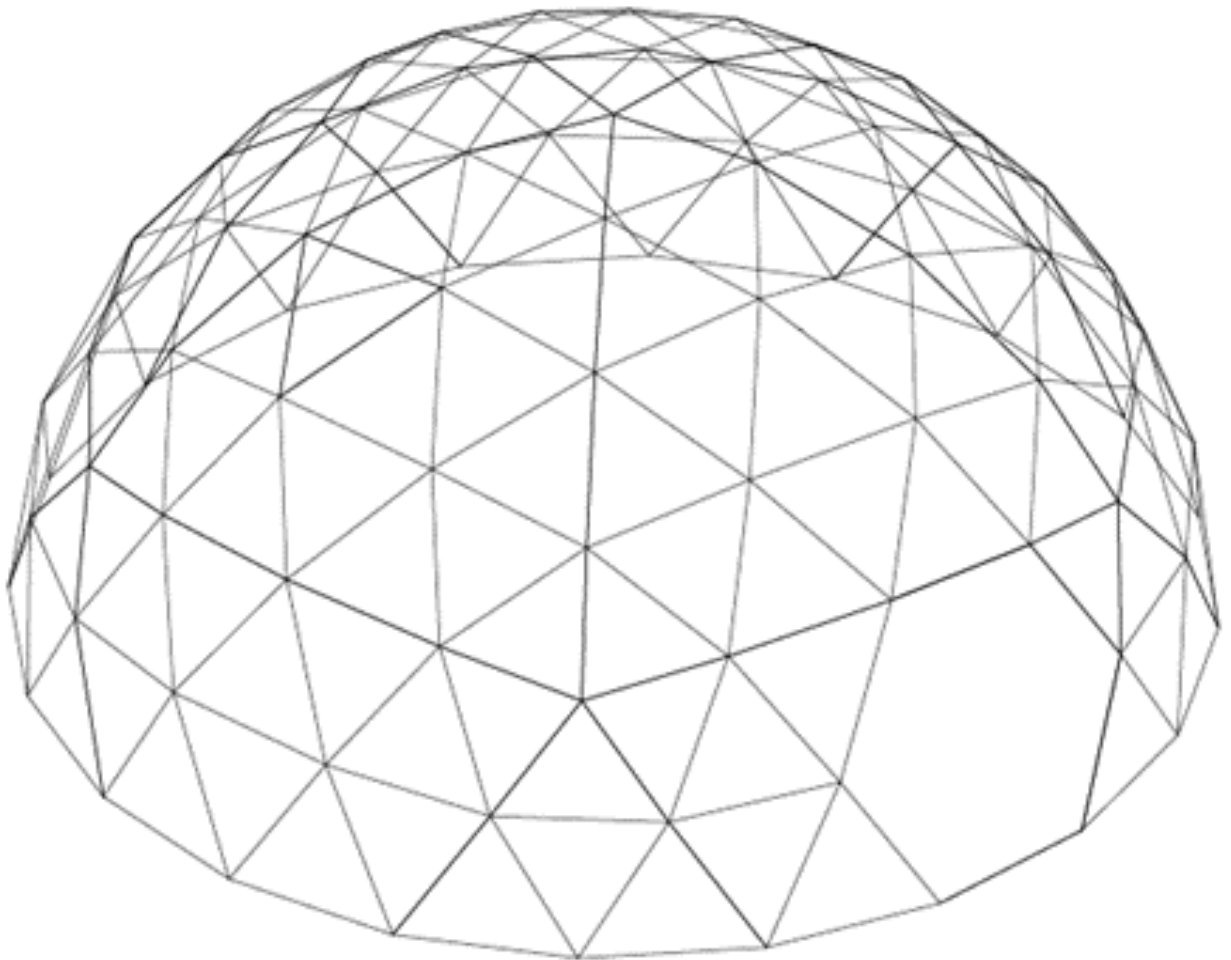
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1. Introduction

Dear costumer,

First of all we want to congratulate you with the purchase of a Marshmallow Greenhouse Geodesic dome. In this manual you can find some general information about this product and some guidance to assemble this product. On behalf of the 'Marshmallow' company, we would like to thank you for the trust in this product. We hope that you will enjoy every benefit that this product has to offer you.



2. General information

a. The product

This product is a Geodesic dome with a diameter of 6,8 meters that is designed to be used as a Greenhouse. This greenhouse contains an automatic door and window. The heat and ventilation is regulated by humidity- and temperature sensors inside the dome.

b. Package

This product is delivered in three different packages:

- Package 1 contains the different struts for the structure, as well as the fabric.
- Package 2 contains the window and the electrical components of the window
- Package 3 contains the door and the electrical components of the door.

The number of the package is indicated on each box.

c. Warranty

This product is under the protection of warranty.

- The struts and the fabric have 10 years of warranty
- The electrical components have 5 years of warranty.

If the product fails during the period of warranty, please send a mail to:

Marshmallow.domes@gmail.com

This mail should contain a photos of the failed component and a copy of the original receipt.

d. Maintenance

Not performing of maintenance can have an influence on the life expectancy of the dome. Please wash the fabric of the dome when it is dirty. The sensors should also be free of dirt in order to work properly

e. Warnings

Please be aware of following warnings that are given:

- The electrical components are pre-programmed in order to be fully functional for this product. Please don't make any changes in the electrical system or the program code.
- The dome is designed so it can resist the necessary loads. Please don't put a large amount of extra loads on the structure.
- Be advised that all the three different packages are necessary to obtain a functionally dome. Extra windows can be implemented into the dome, with a maximum of five windows and doors.
- Please be advised that any failure that can be proven by photos or receipt - or failure that is caused by an own mistake – is not protected by warranty.

3. Contact

More information can be obtained by mail, letter or by phone.

Mail: Marshmallow.domes@gmail.com

Phone: +32 4 96 47 50 90

Address: MARSHMALLOW HEAD OFFICE
Rua Dr. Aménio Bernardino de Almeida, 431
4249-015 Porto
Portugal

Our office is open every work day between 8h30 and 17h:







4. Components

a. Package 1

Package 1 contains the fabric and the struts of the Marshmallow Geodesic Greenhouse Dome:

- The fabric is a twin-wall greenhouse covering from the company Solexx™. This fabric comes in one piece and should be implemented on the dome after the assemblage of the structure is completed. 20 Tie-wraps are also included to fix the fabric on the structure
- The package contains 6 different struts that are indicated with a color and a colorADD code. The different struts and their responding properties are shown in table 1:

Table 1: Different struts and their properties

Strut nr	Length (m)	Quantity	Color	Color code
1	861	30	Blue	
2	1001	58	Yellow	
3	1004	30	Red	
4	1015	30	White	
5	1064	68	Black	
6	1105	28	Green	
TOTAL:		244		

- This package also contains 90 M12 bolts and nuts which are needed to assemble the nodes.

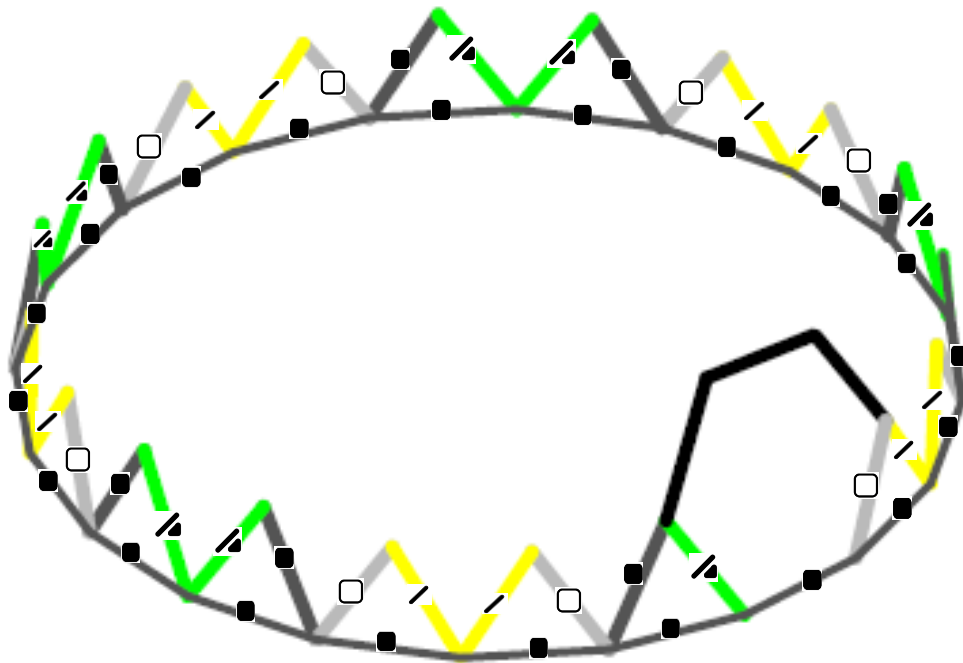
b. Package 2&3

Package 2 and 3 contains the window and the door and their electrical components. More information can be found in the manual of the window and the door, which is separately delivered in the second and third package.

5. Assembling the dome

a. Step 1

- Make the base. Components needed:
 - 20 x M12 Bolts and nuts
 - 20 x Type 5 struts
- Make the first base of the ring. Components needed:
 - 10 x Type 2 struts
 - 10 x Type 3 struts
 - 9 x Type 5 struts
 - 9 x Type 6 struts

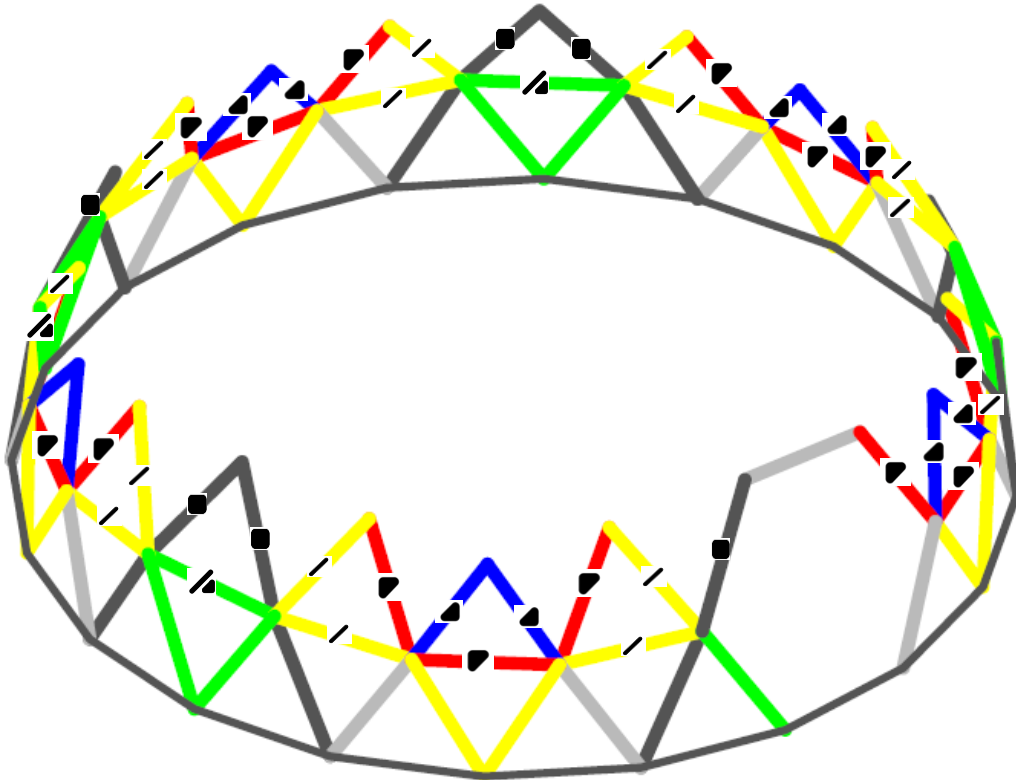


- Implement the door (see manual door)

b. Step 2

1) Make the second ring of the dome. Components needed:

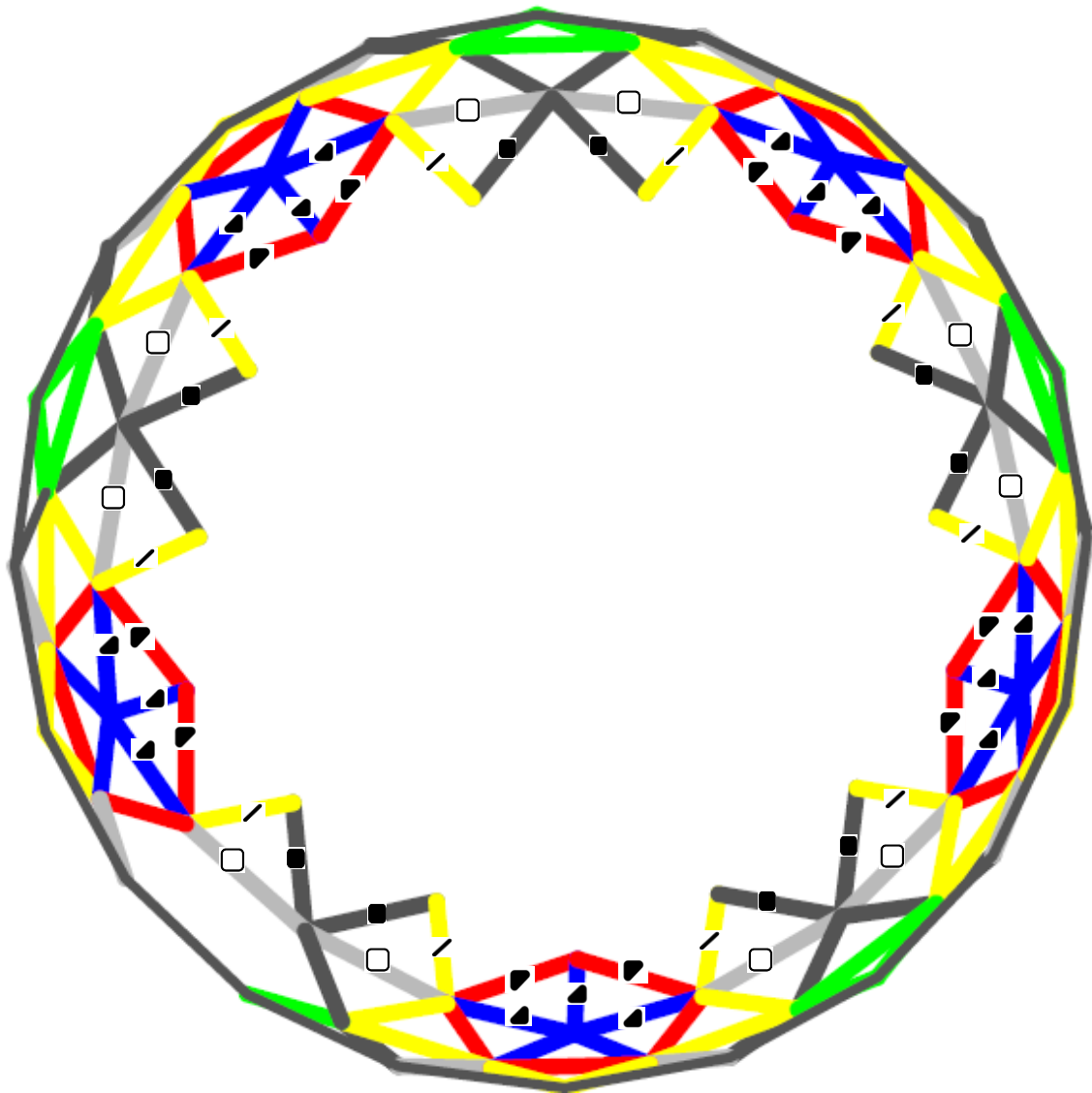
- 10 x Type 1 struts
- 18 x Type 2 struts
- 15 x Type 3 struts
- 9 x Type 5 struts
- 4 x Type 6 struts
- 19 M12 bolts and nuts



c. Step 3

1) Make the third ring of the dome. Components needed:

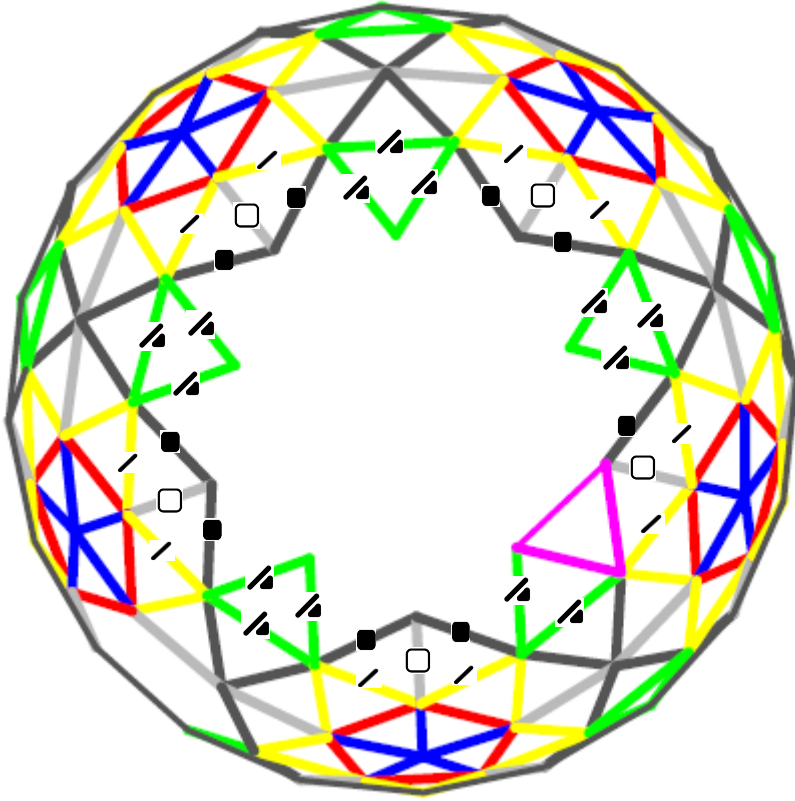
- 15 x Type 1 struts
- 15 x Type 2 struts
- 10 x Type 3 struts
- 10 x Type 4 struts
- 10 x Type 5 struts
- 20 M12 bolts and nuts



d. Step 4

1) Make the fourth ring of the dome. Components needed:

- 10 x Type 2 struts
- 5 x Type 4 struts
- 9 x Type 5 struts
- 14 x Type 6 struts
- 15 M12 bolts and nuts

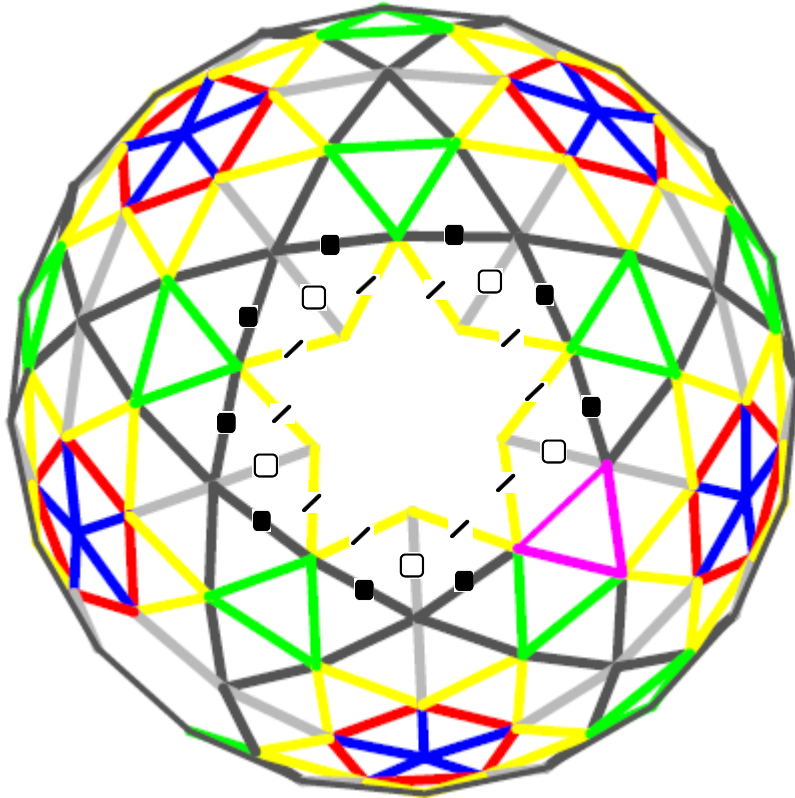


2) Implement the window (see manual window)

e. Step 5

1) Make the fourth ring of the dome. Components needed:

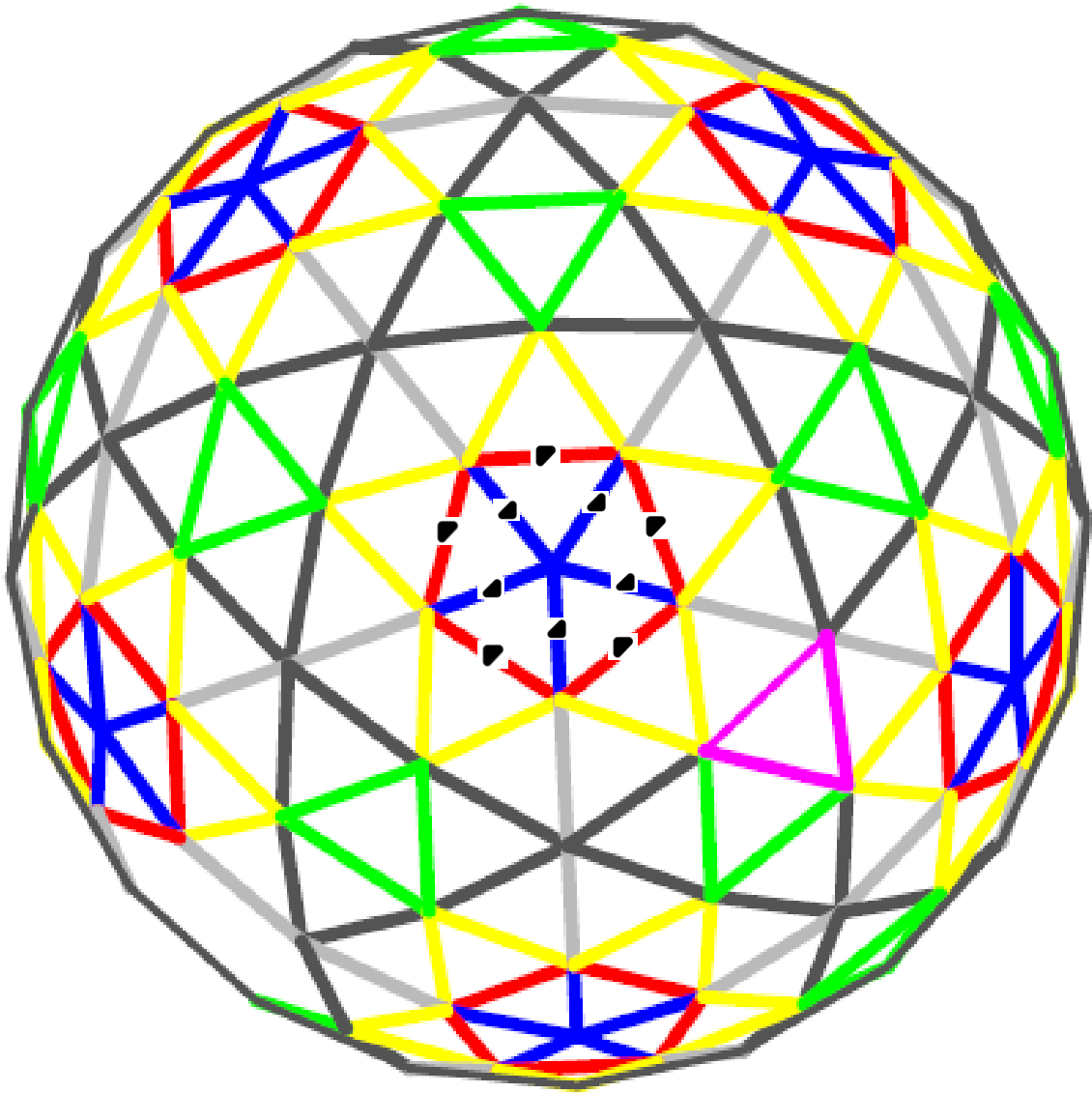
- 10 x Type 2 struts
- 5 x Type 4 struts
- 9 x Type 5 struts
- 10 M12 bolts and nuts



f. Step 6

1) Make the last ring of the dome and connect the top node. Components needed:

- 5 x Type 1 struts
- 5 x Type 3 struts
- 6 M12 bolts and nuts



g. Step 7

1) cover the dome with the cover and strap it on the base struts. Components needed:

- Fabric
- 20 Tie-Wraps