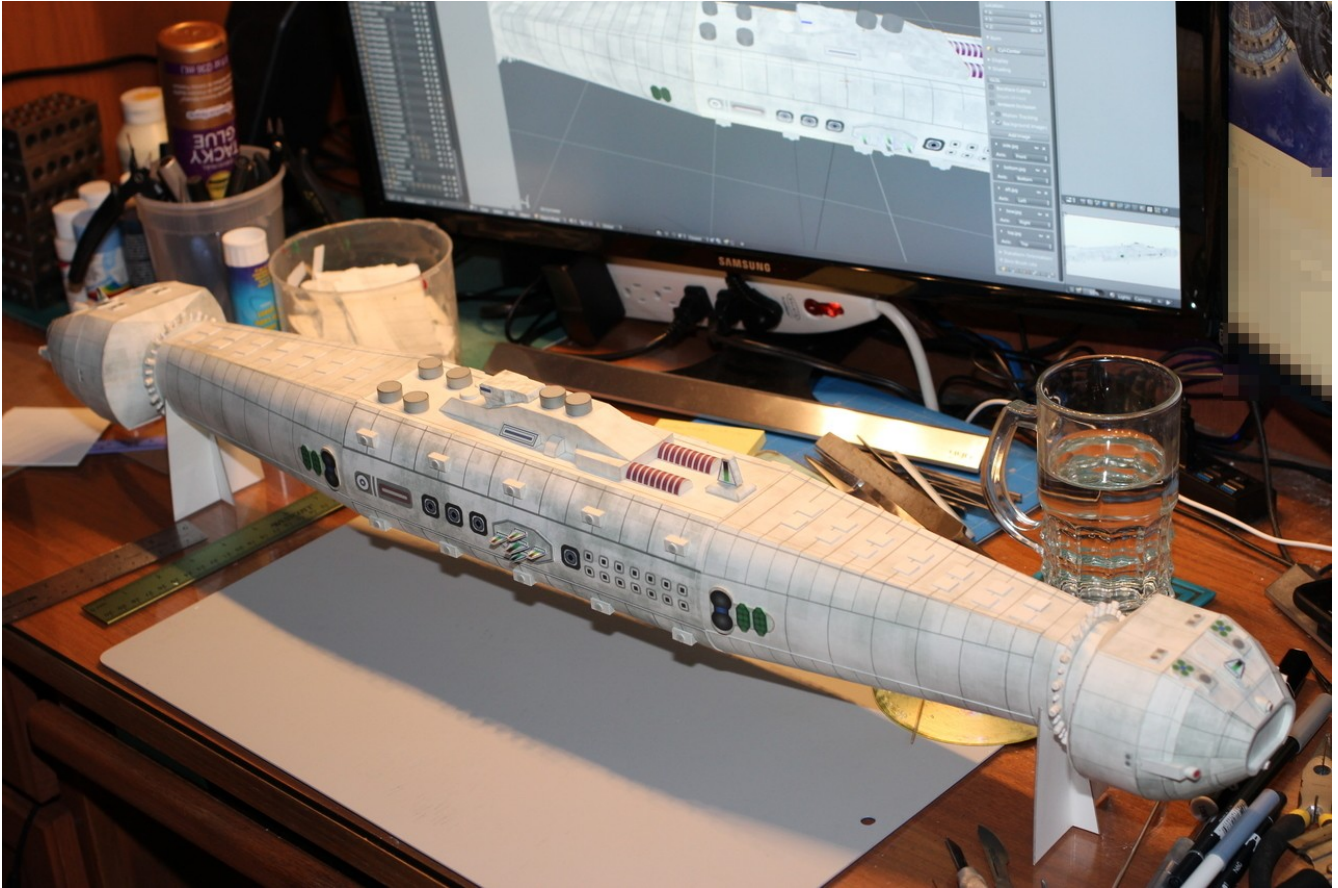


1/450 HMS Fearless from the Honorverse
Concept from the books from David Webber
Model design by David Lukens, 2017

www.insanityunlimited.com

http://www.insanityunlimited.com/gallery/paper_models/hms_fearless_cl-56/

Difficulty: Not Easy



This is the HMS Fearless (CL-56) from the Honor Harrington novel On Basilisk Station by David Webber.

Instructions

This model is much larger than I originally expected it to be. As a result it can easily be shrunk to 50% or 33% or 25% of its original size and constructed still. At 100% (1/450) it is around 3ft long.

I did not add any tabs onto the parts. I always find that I don't like how others lay out their tabs, so feel free to add them as you desire for your style of building.

This first page of parts makes up a bunch of detail components that will be used later on.



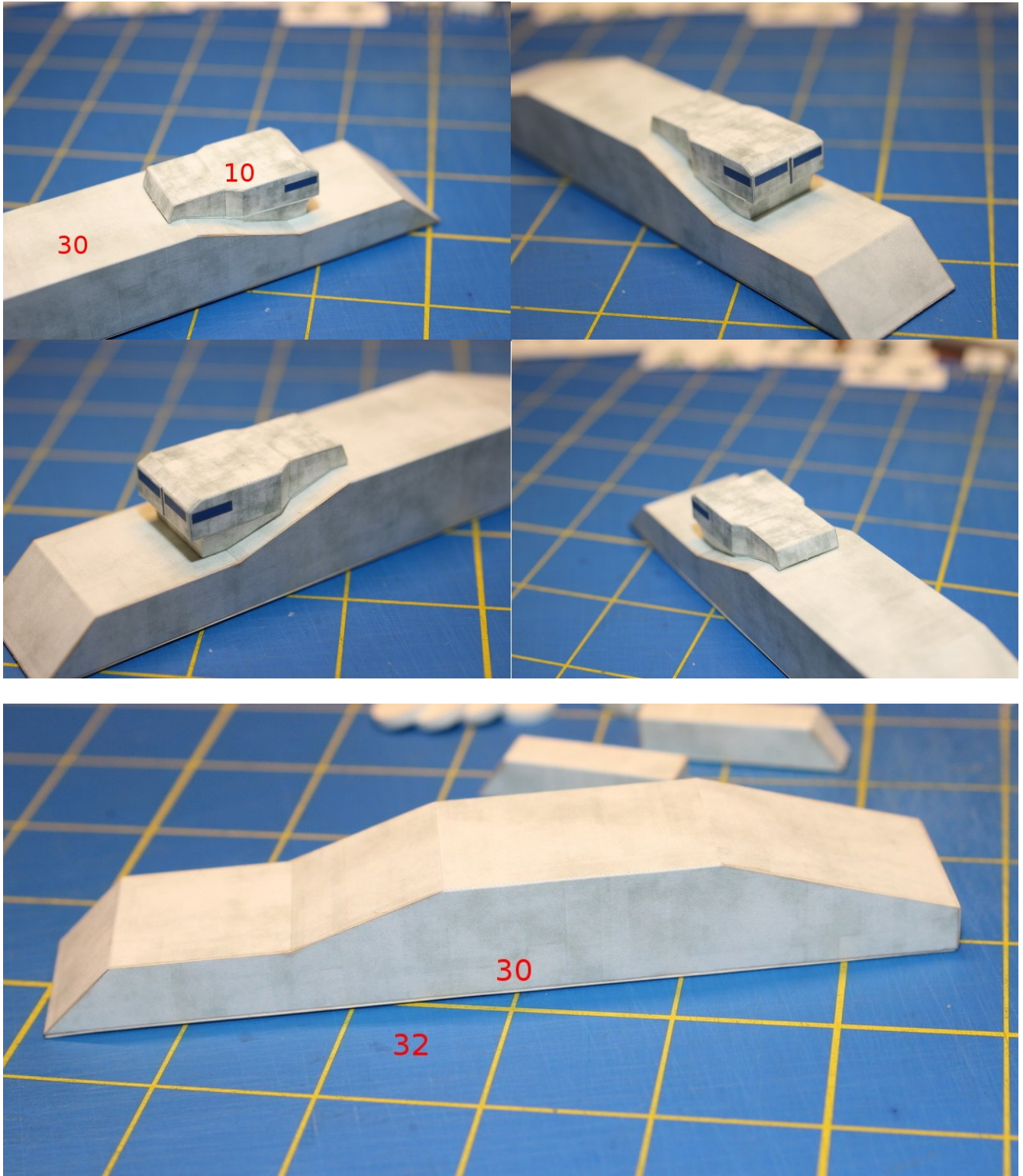
Parts 1 and 2 are the boat bays.

Part 3 is the lower block.

Part 4 are the sensor mounts for parts 6 and 7.

Parts 8 and 9 make up a total of six cylinders for in front of and behind the bridge

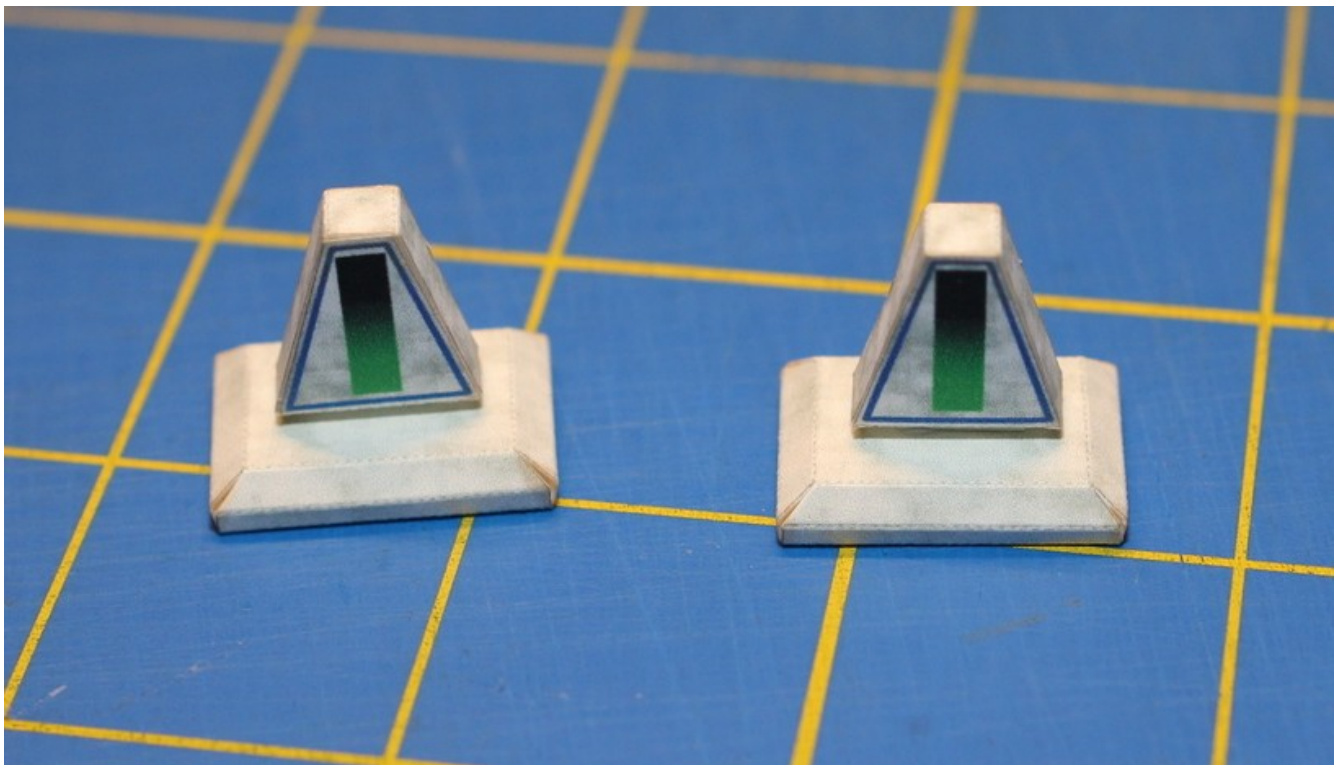
Parts 11 and 12 make the large coils behind the upper superstructure.



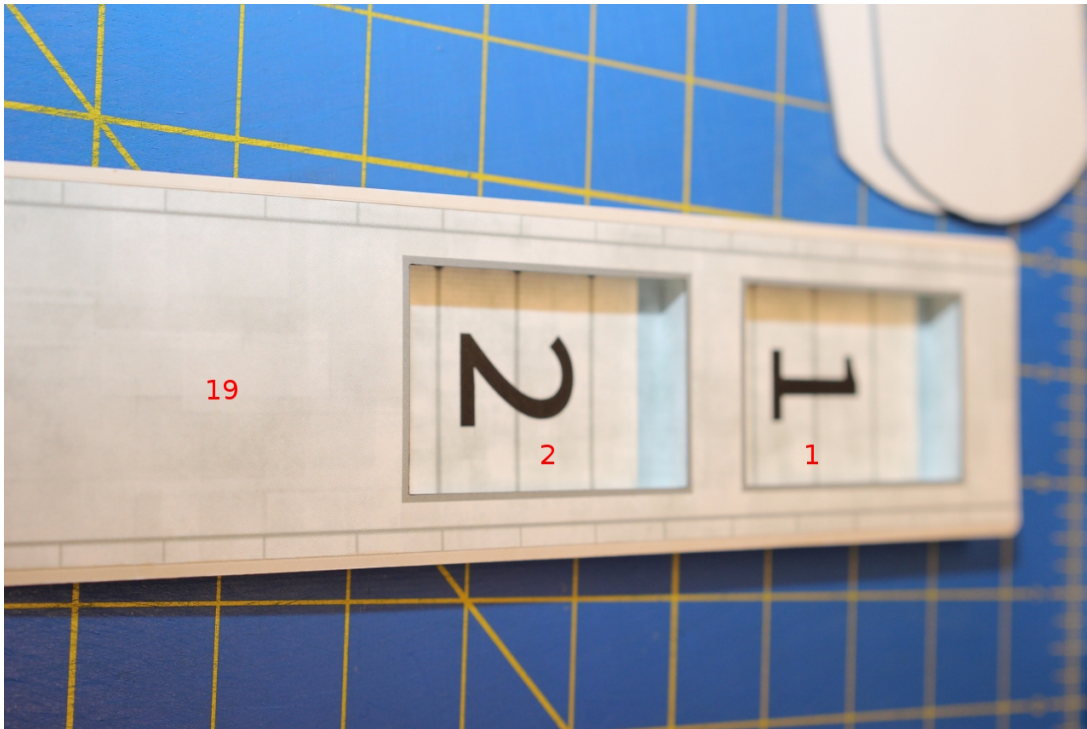
Detail of the bridge (part 10) and upper superstructure (part 30) with bottom plate (part 32).



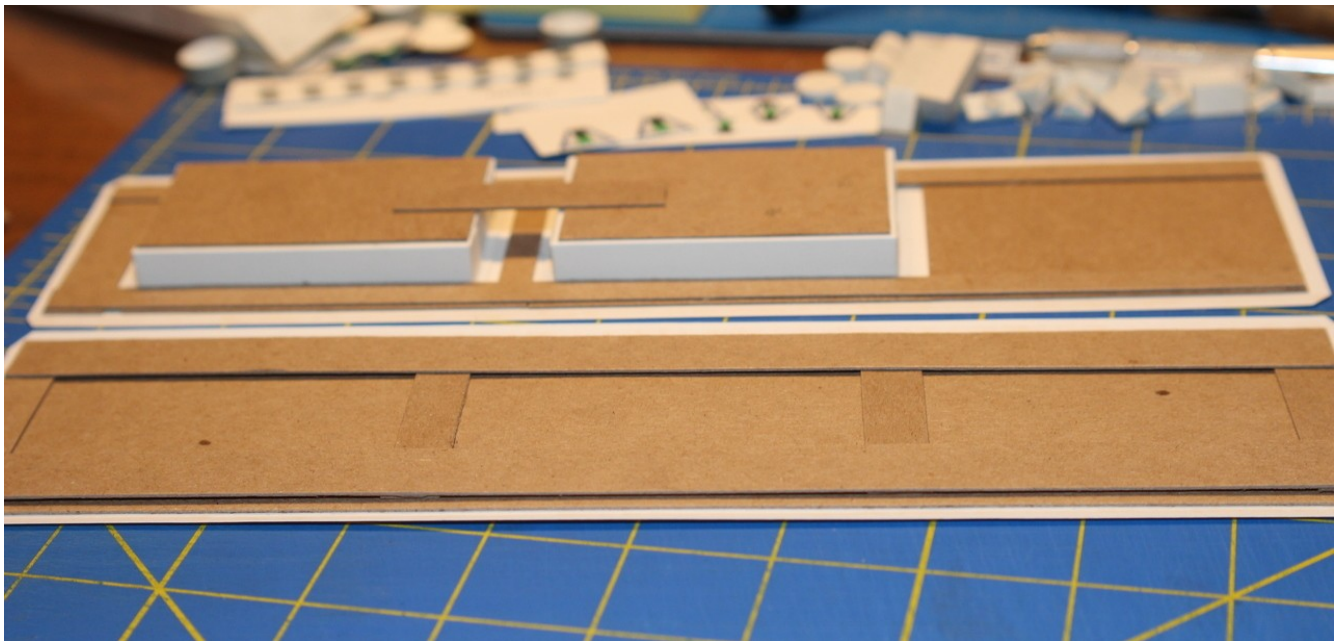
The sensor wings are made up of parts 6, 7, and 5. Laminate part 5 up to 1mm thick.
The bottom grate is made up of parts 13 and 14. Laminate both to 1mm thick.
Sensor pods are made up to parts 15 and 16. Laminate all of them up to .5mm.



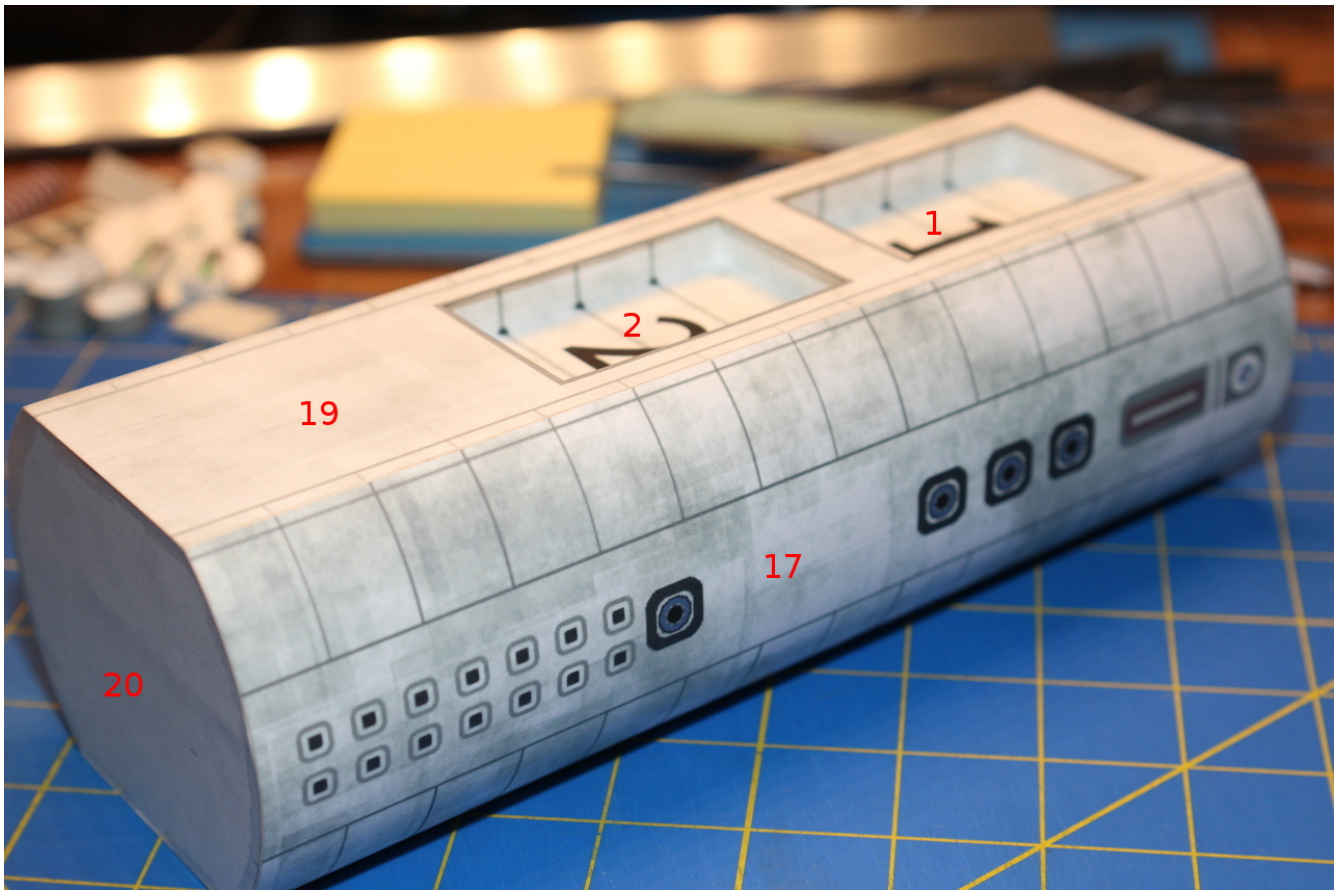
Here are parts 4, 5, 6, and 7 completed.



The next three pages of parts make up the center hull section. Parts 1 and 2 are the boatbays from earlier. Part 19 is the bottom plate of the center section. Part 18 is the top plate. Parts 17 are the sides. In order to add some rigidity to the area I laminated the upper and lower plates, as well as the end formers to chipboard so they would be stronger.

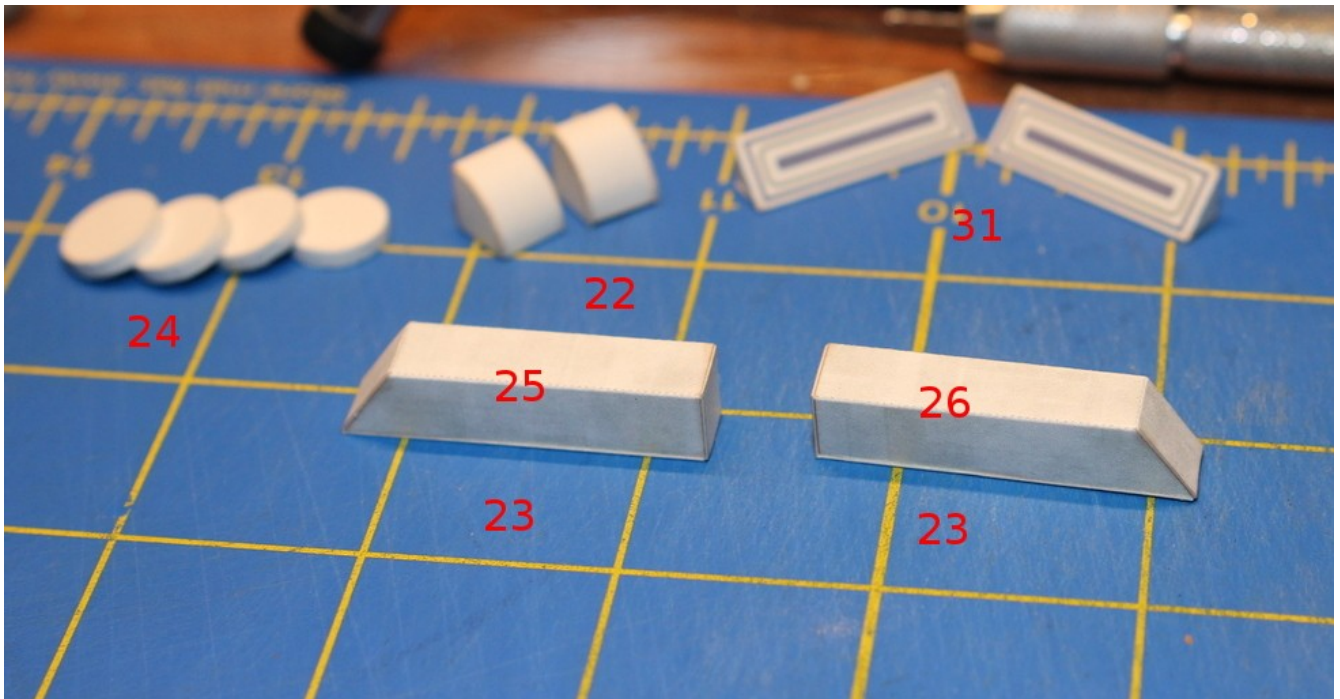


This is how I reinforced the upper and lower plates of the center section.



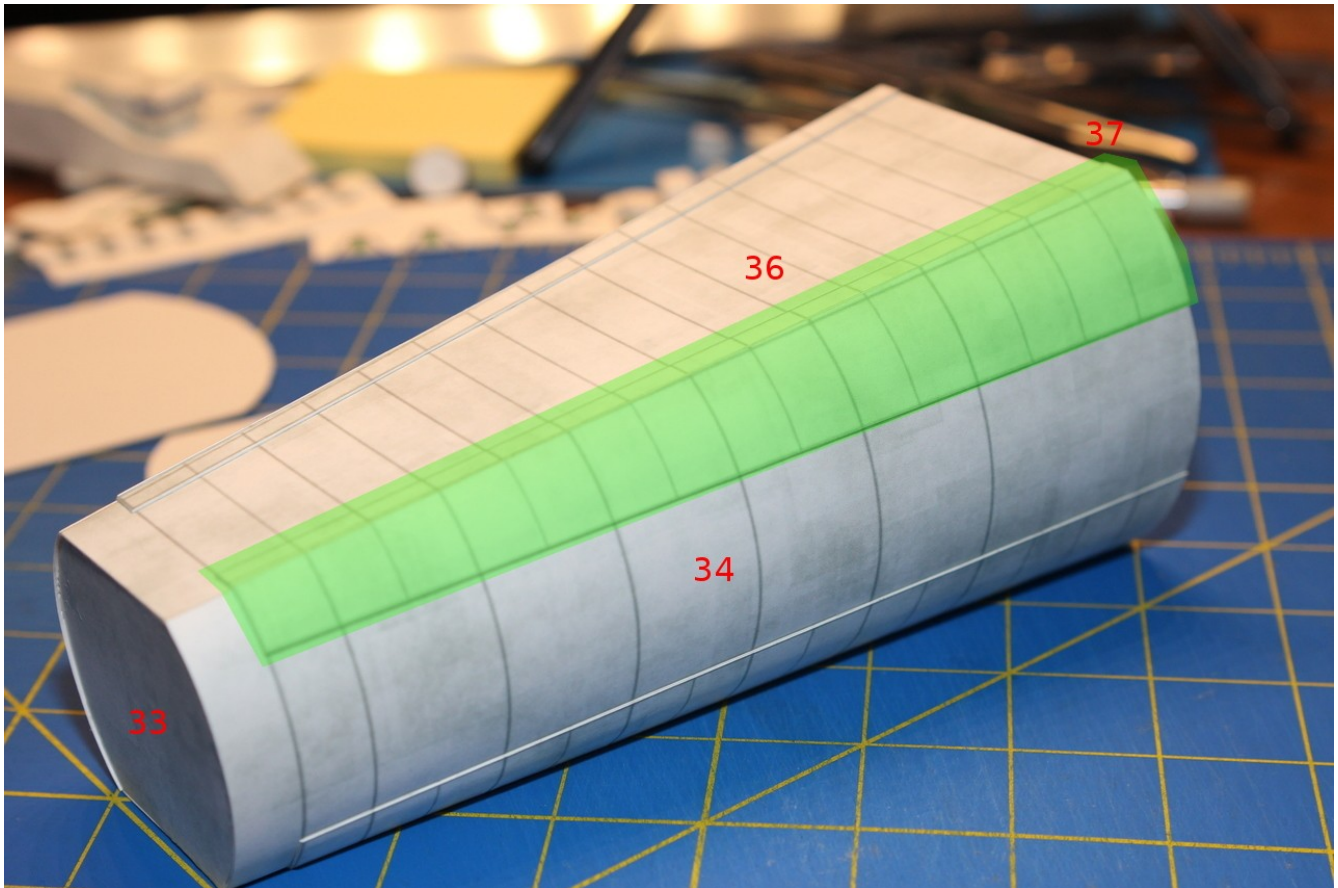


For this part we want to add some depth to the armor plate that makes up the corners of this center section. For each of the four corners you will want to create two layers from copies of parts 17, 18, and 19. Trim out just these areas from the parts. You will add a total of 2 layers of card stock to these areas.



Parts 24 are more cylinders for detail (you only need two, not four).
Parts 22 are small coils that will go onto the superstructure.
Parts 31 are triangular prisms, also that will go on the superstructure.
The two wings of the superstructure are made up of parts 25 and 23, as well as 26 and 23. This too will be added to the superstructure later.

The next large section will be the bow transition.

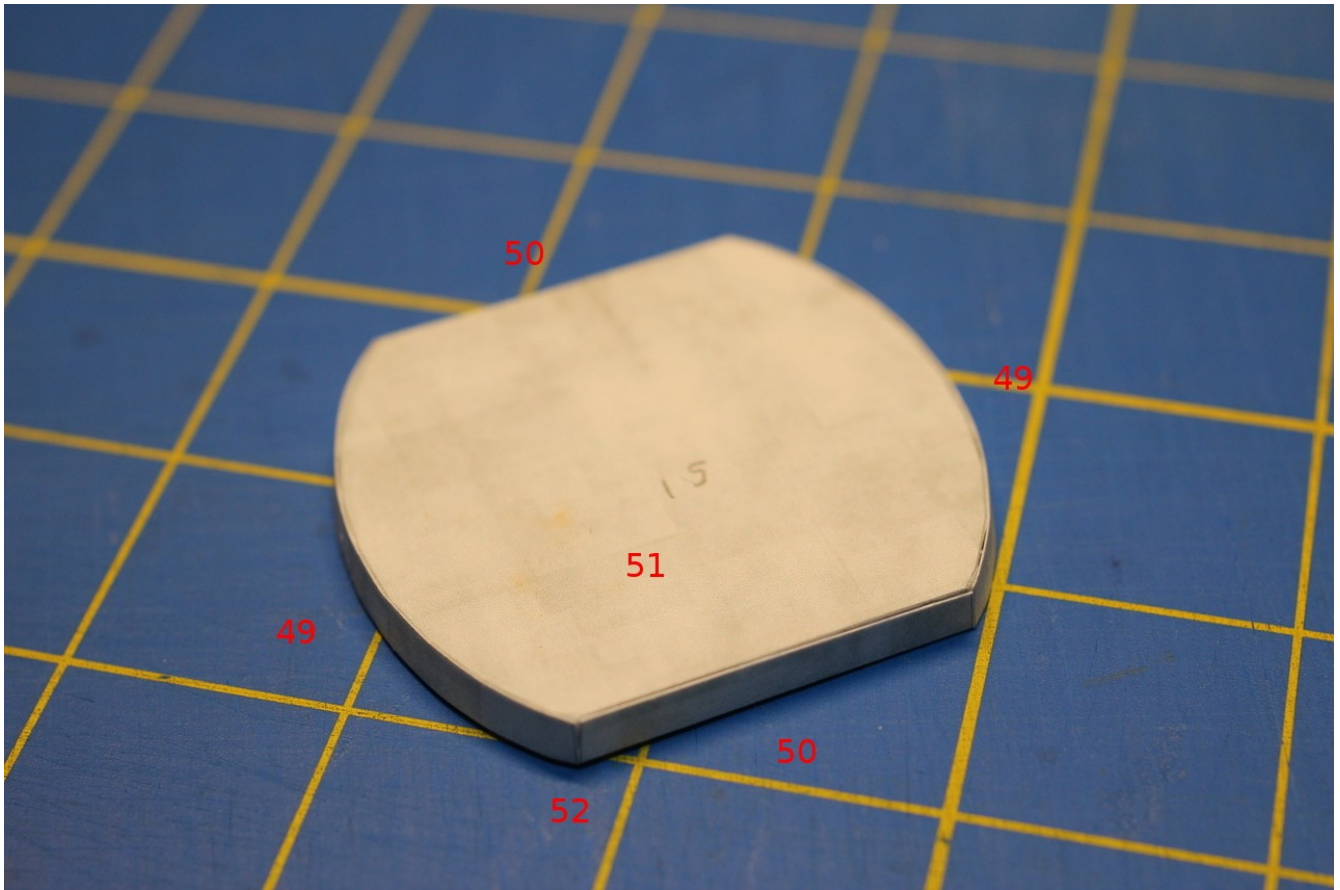


Parts 33 and 37 make the end formers and are laminated for strength.
Both parts 36 make up the top and bottom plates, also laminated for strength.
Both parts 34 are the sides of the transition segment.

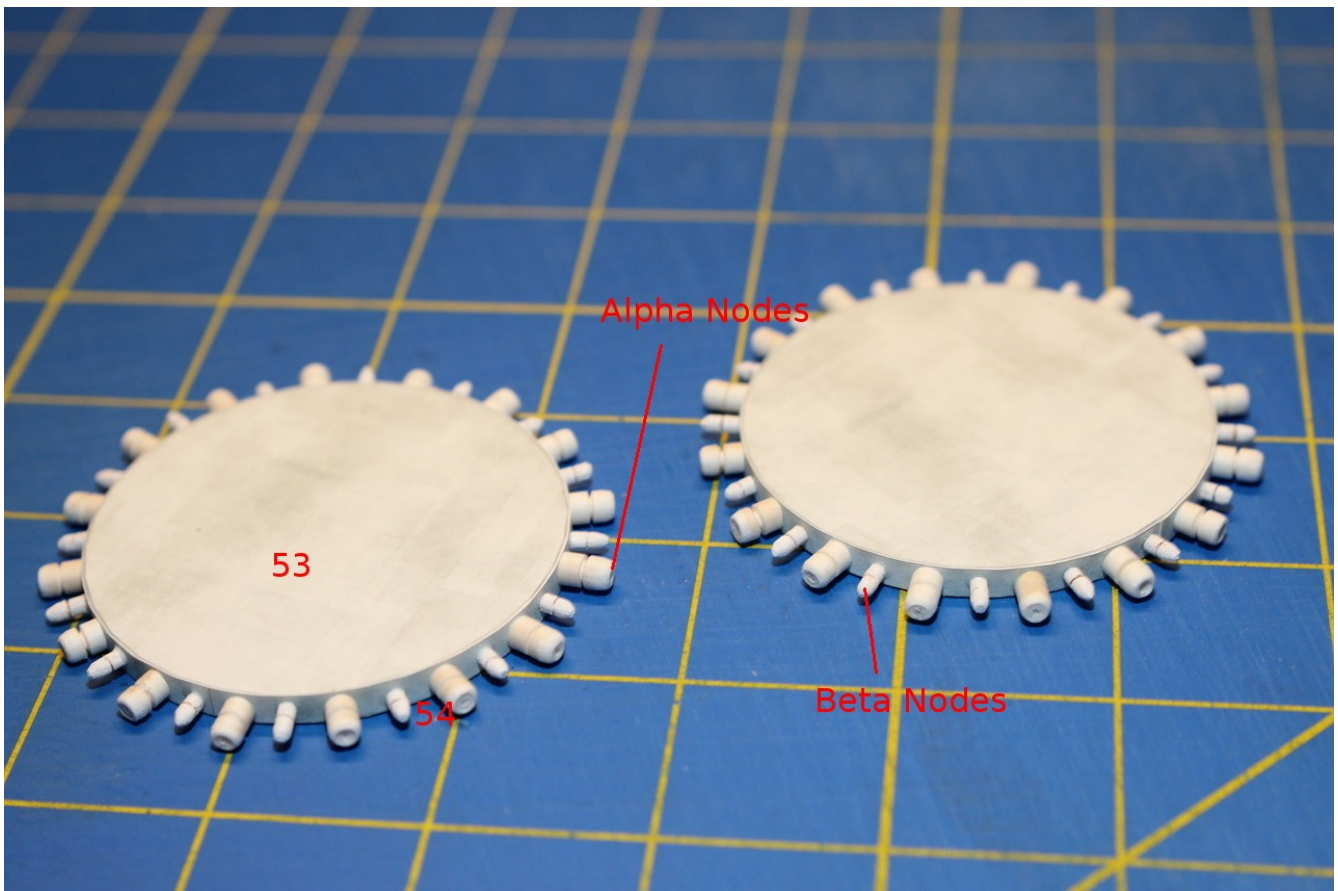
Just like with the center section, the corners of the segment need additional armor plate. This entails more copies of part 36 and 34 to add two more layers of card stock to the areas.

The stern transition segment is made exactly the same way with parts 43, 44, 45, and 47. It too needs to have the corners thickened with two more layers of the armor plate.

Parts 49, 50, 51, and 52 make up the stern transition adapter.



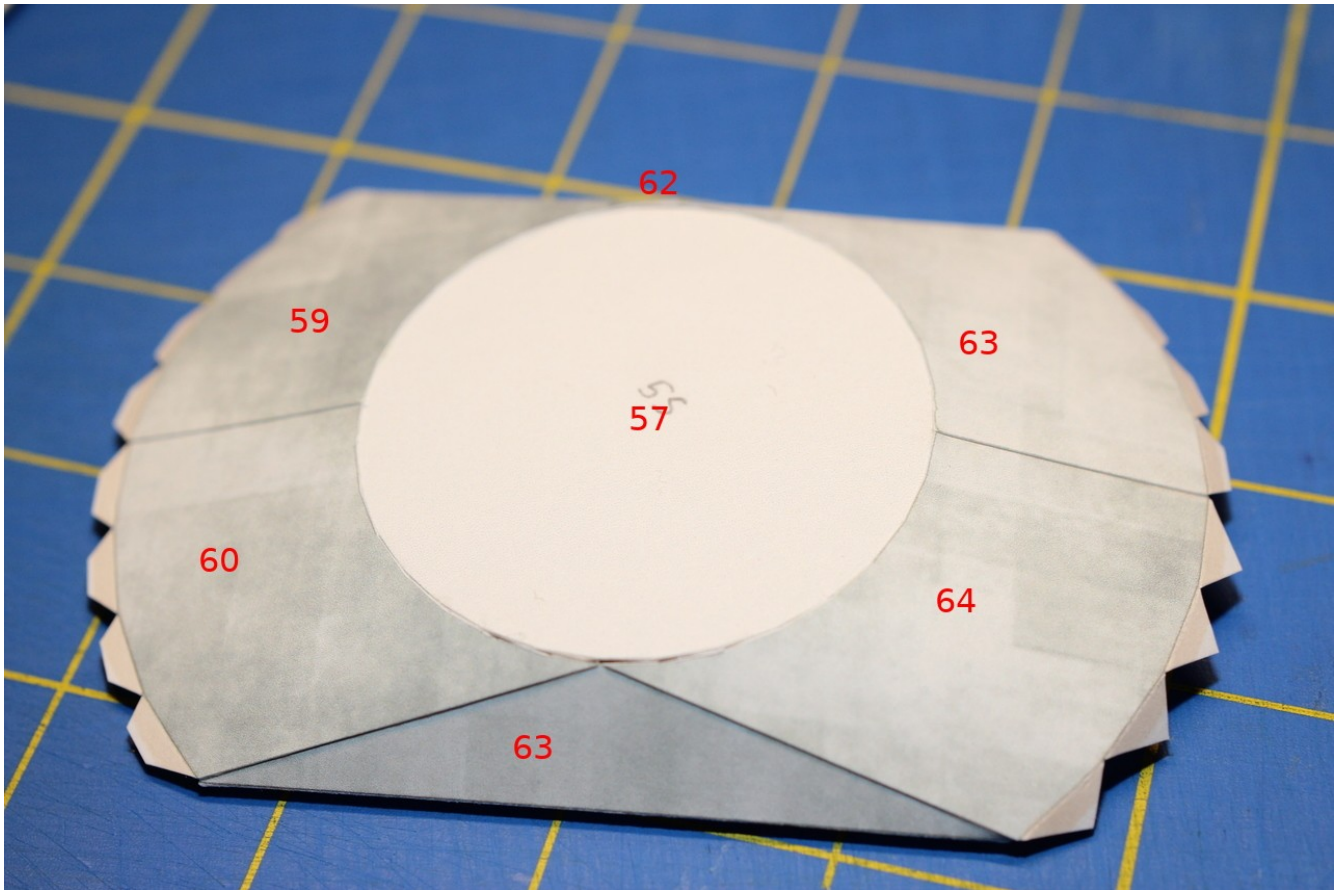
The next section is a pair of node collars.



The grav node rings are made up of parts 53 and the out strip, part 54. The nodes are put on in alternating sequence. See the parts on the node page for both alpha and beta nodes. *[I will admit that they are particularly fiddly and annoying. As an alternative I used toothpicks carved up for the beta nodes (painted white) and 4mm lollipop sticks carved up for the beta nodes. Fundamentally, the nodes are made up of two wide cylinders with a thin narrow section between the two cylinders.]*



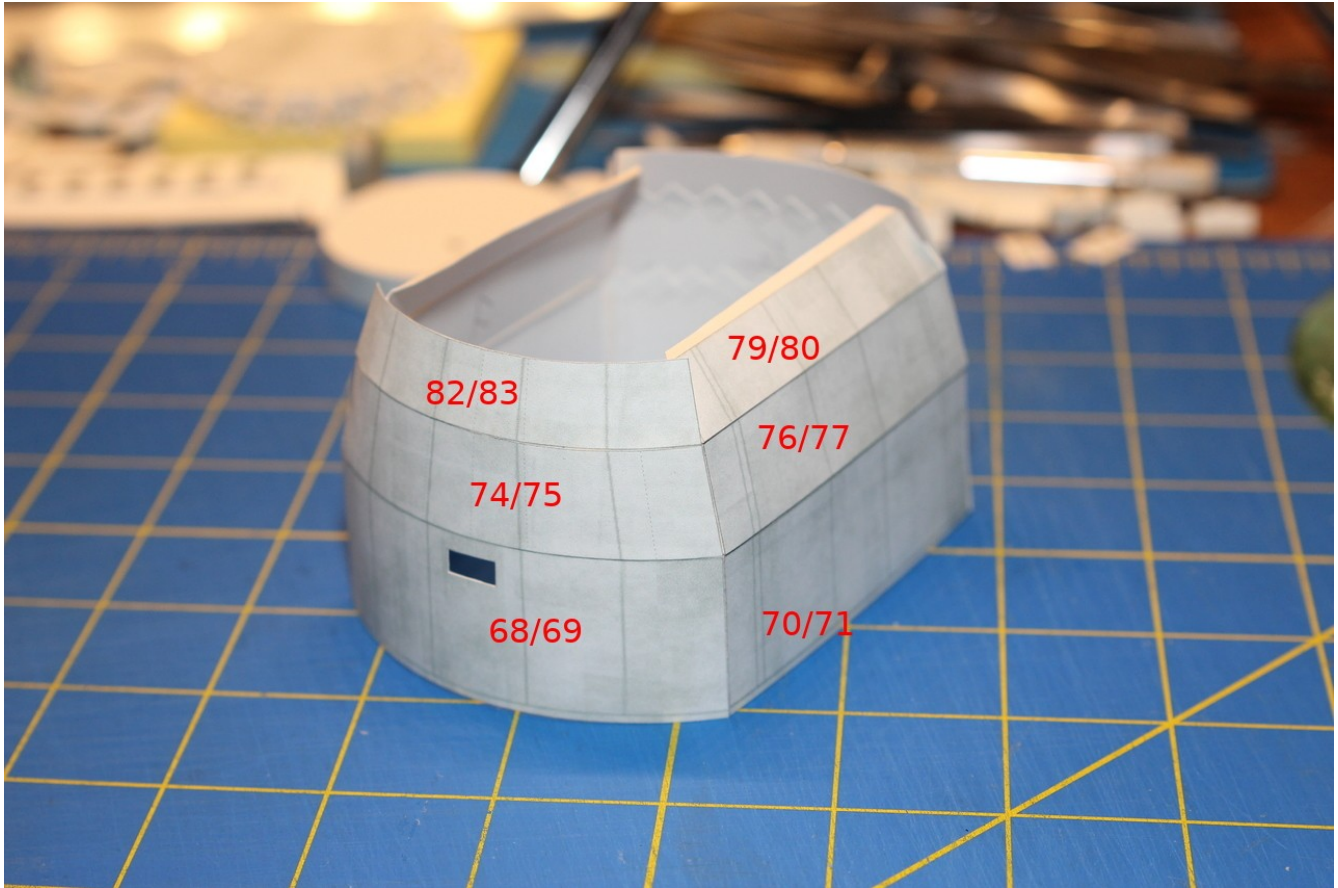
This is the mounting ring for the bow. It is made up of parts 55, 56, and 65.



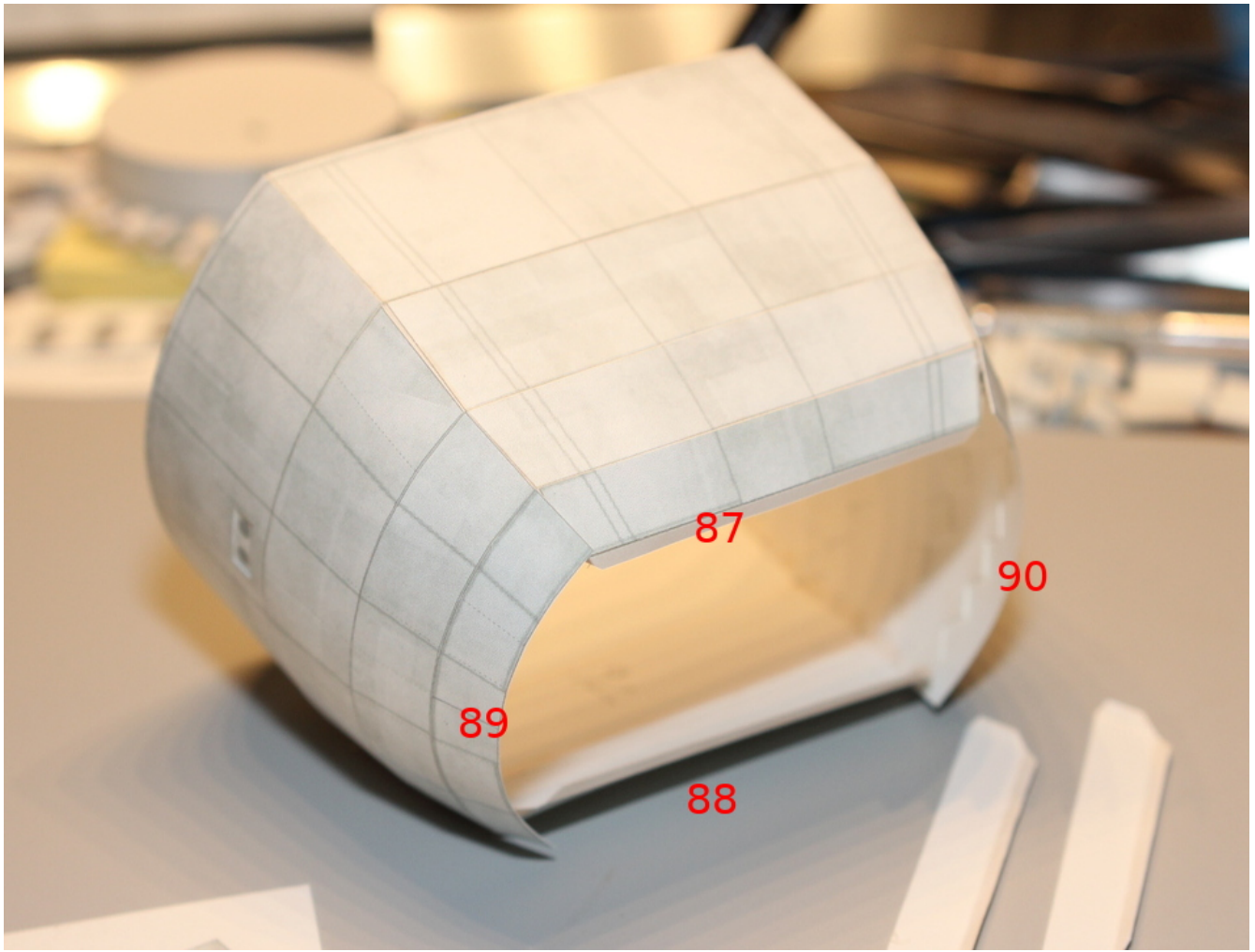
Here is the rear of the bow. Parts 59, 60, 63, 64 are rounded with the triangles of 63 and 62 remaining flat. The center is made of part 57. [Yes, I just realized I have two parts labeled 63... but they are different enough... you get it.]



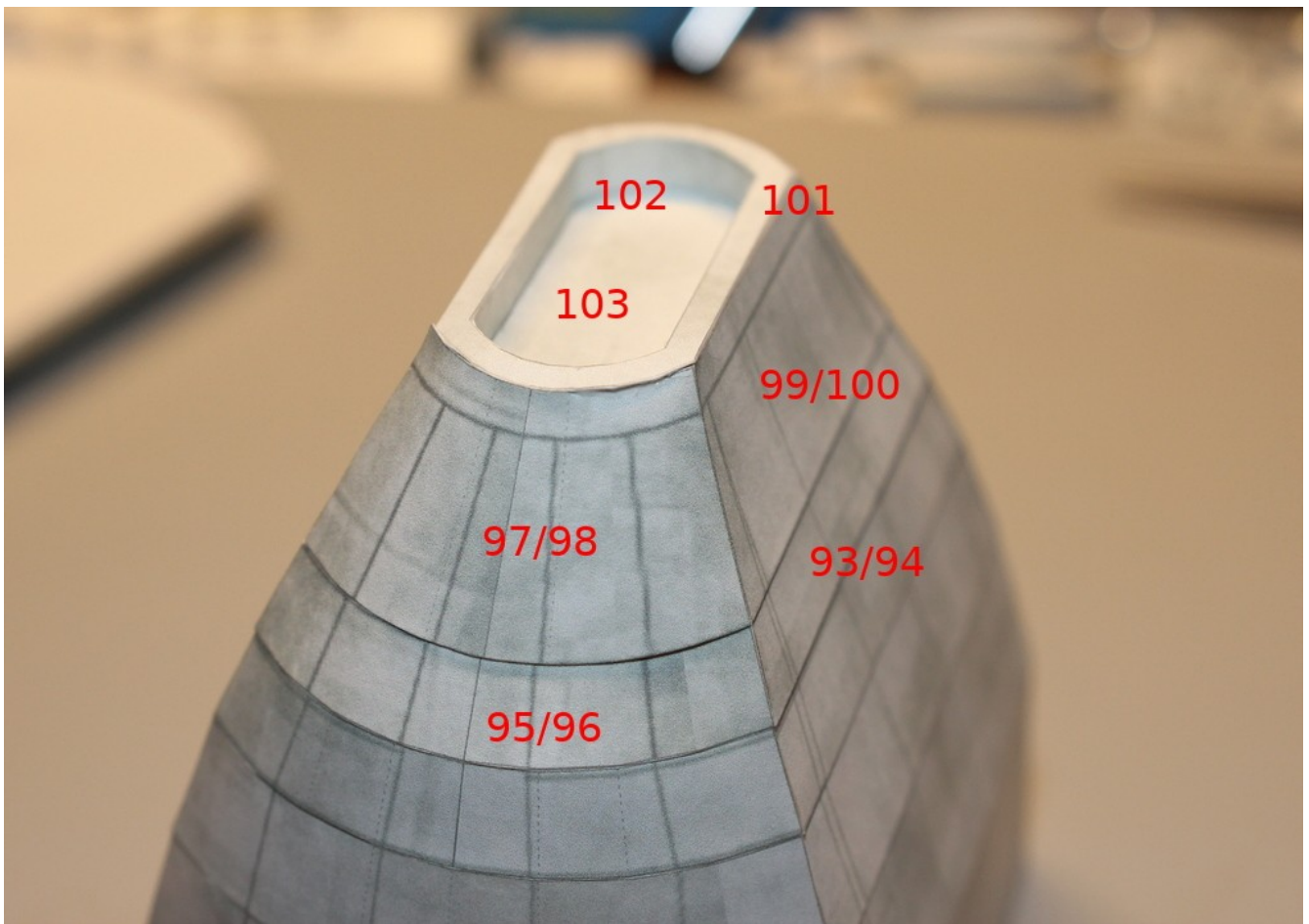
This is the same section (rear of the bow) with a former in place. There are multiple other formers for inside the bow and stern. Feel free to use them or not as you see fit.



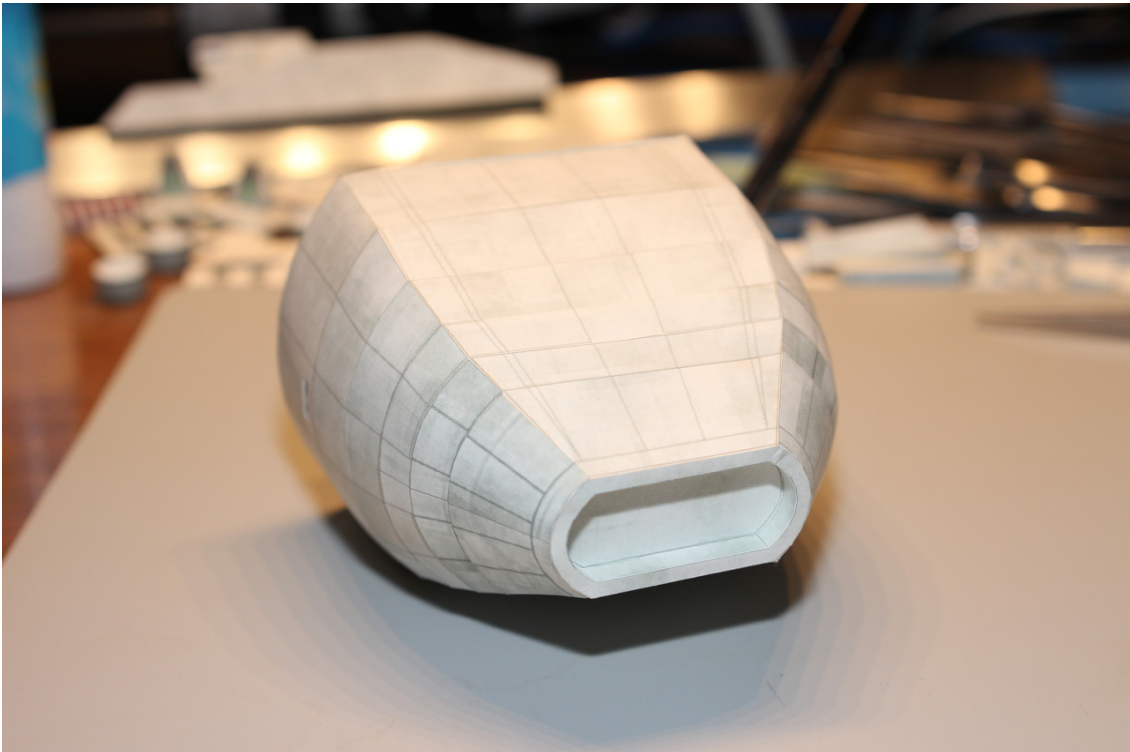
This is the main body (some of it) of the bow. It is made up of a number of rings of components. The parts 70, 71, 76, 77, 79, 80 are flat, and the sides made up of 68, 69, 74, 75, 82, 83 are curved. In the holes in parts 68 and 69 place part 104 on the inside.



Additional parts are added to the bow. Parts 87-90.



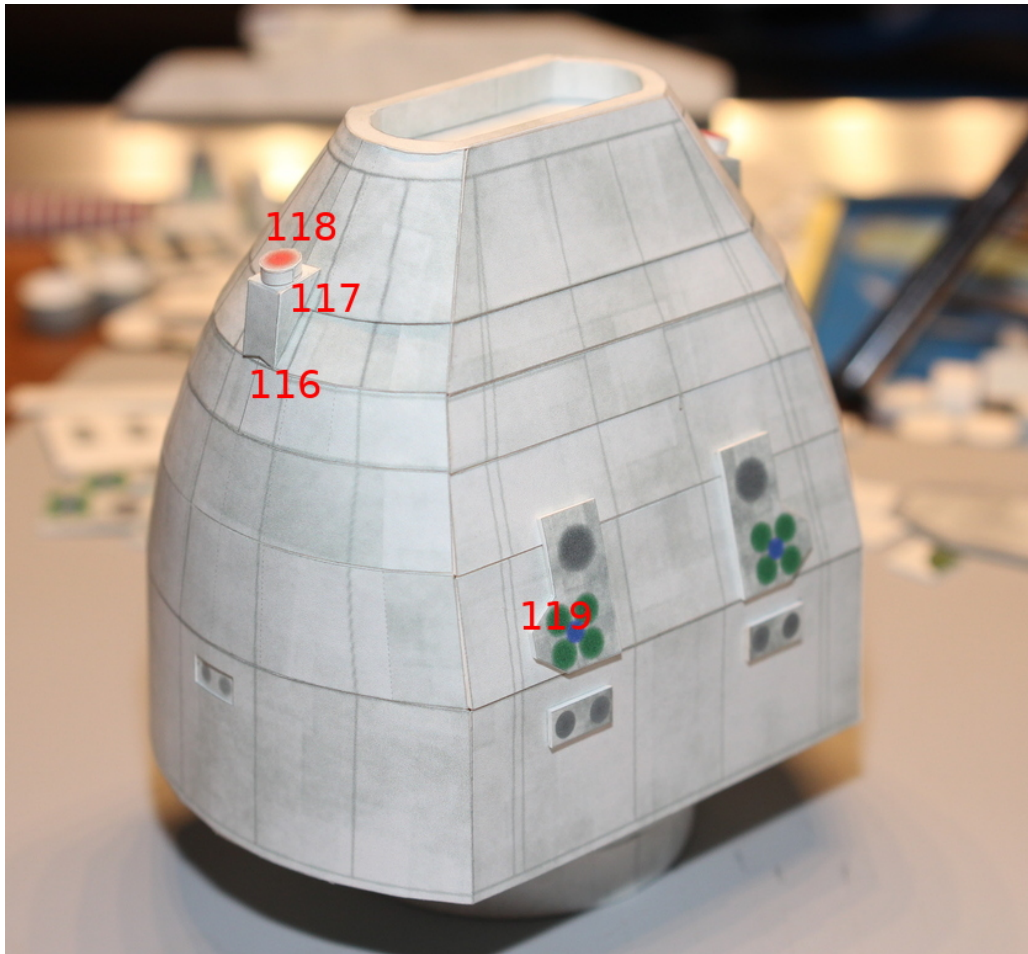
This wraps up the body of the bow. Same deal as before for parts 93-100. Part 101 is a lip that the strip of part 102 is glued to, and part 103 is the inset face.



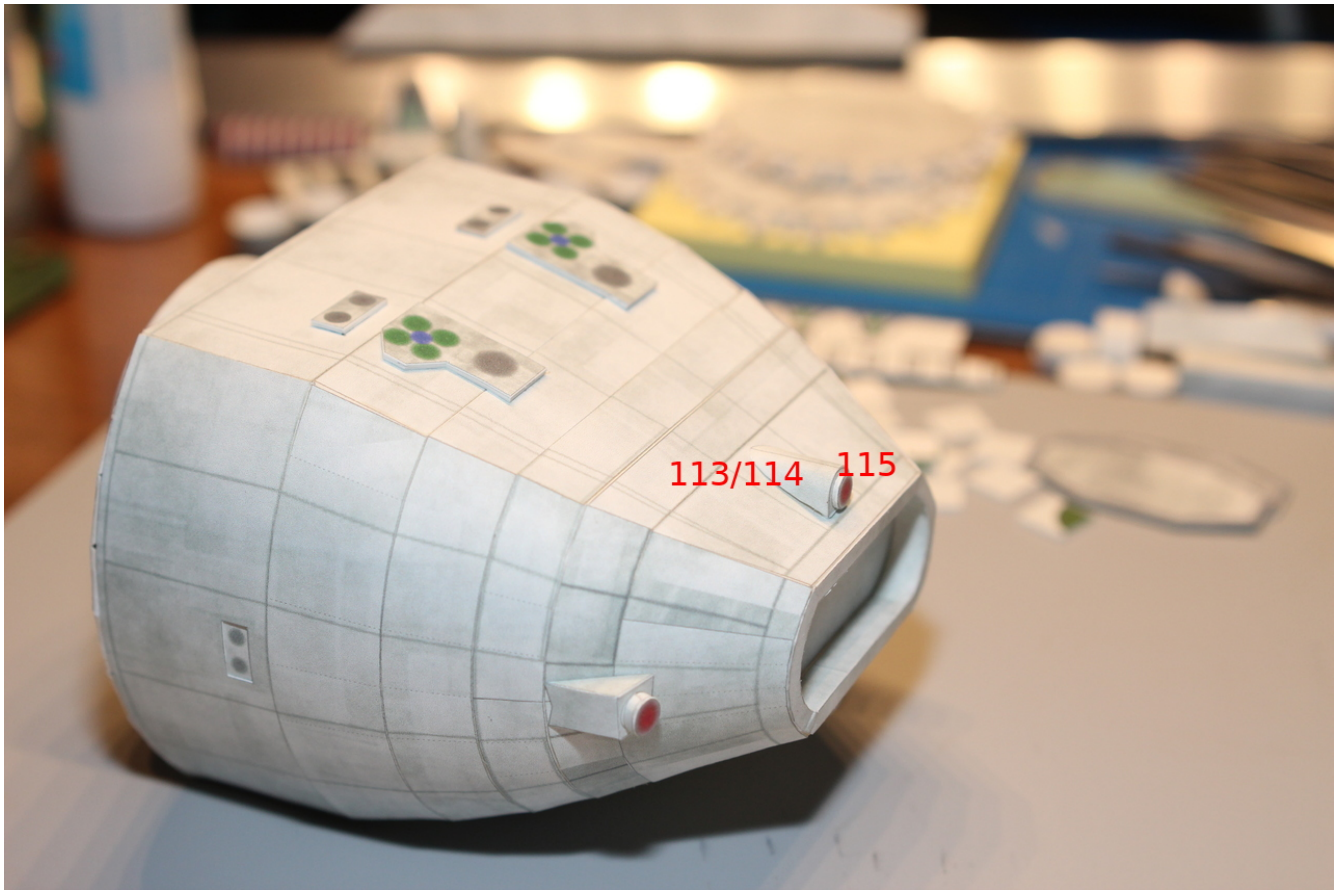
Here is the neck, rear of the bow, and main body of the bow.



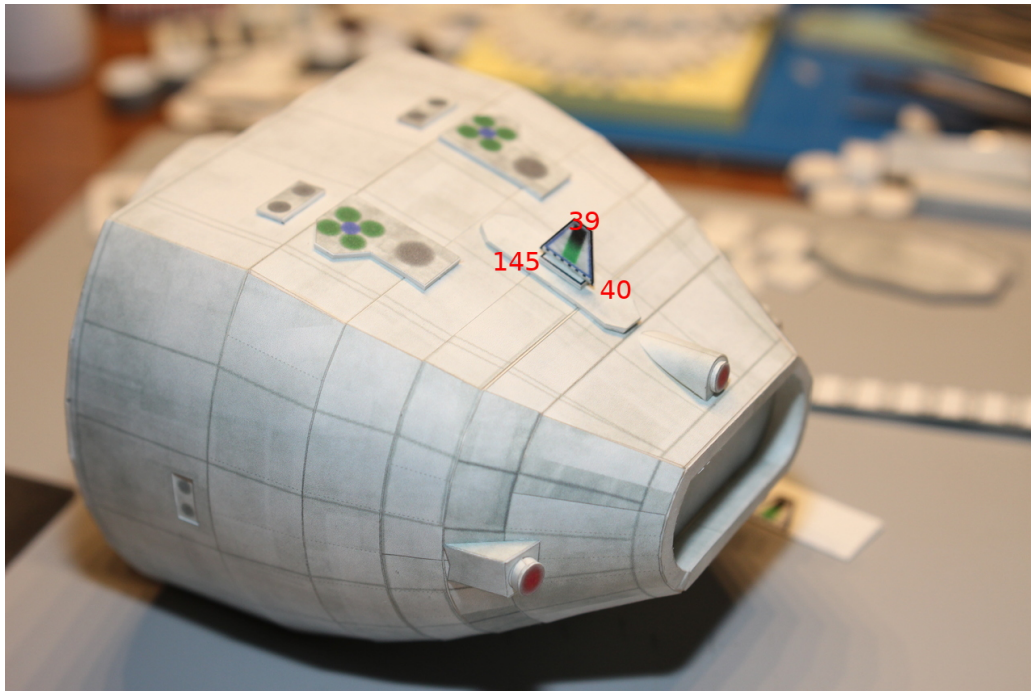
On both the ventral and dorsal sides of the bow go a pair of part 21s. These are the thrusters.



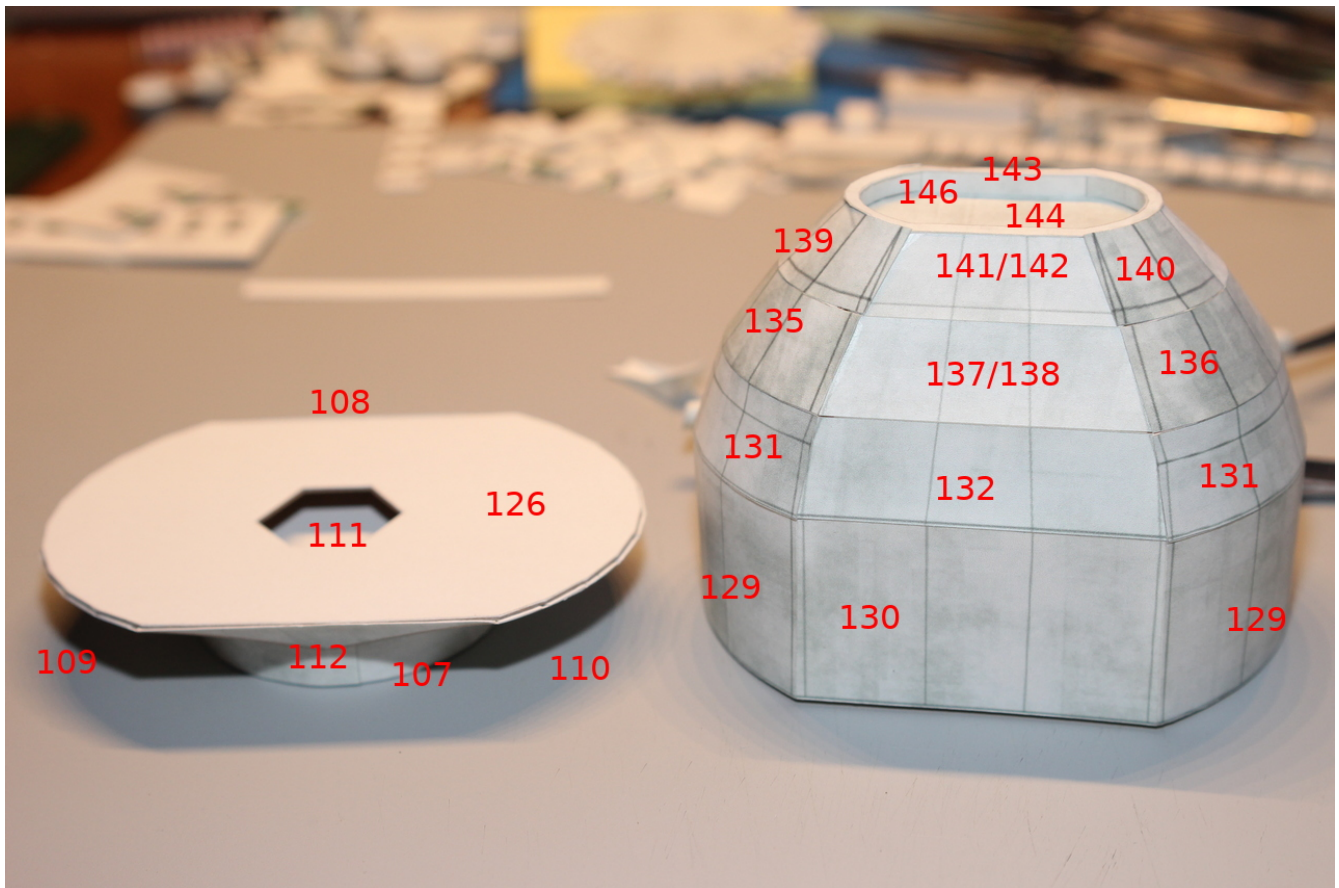
The sponsons for the side lasers are made up of part 116. Parts 117 are used to make an angled ring which has the laser face, part 118, on it. Parts 119 (total of 4 of them) go onto the bow in the position noted. The ventral and dorsal layouts are the same.



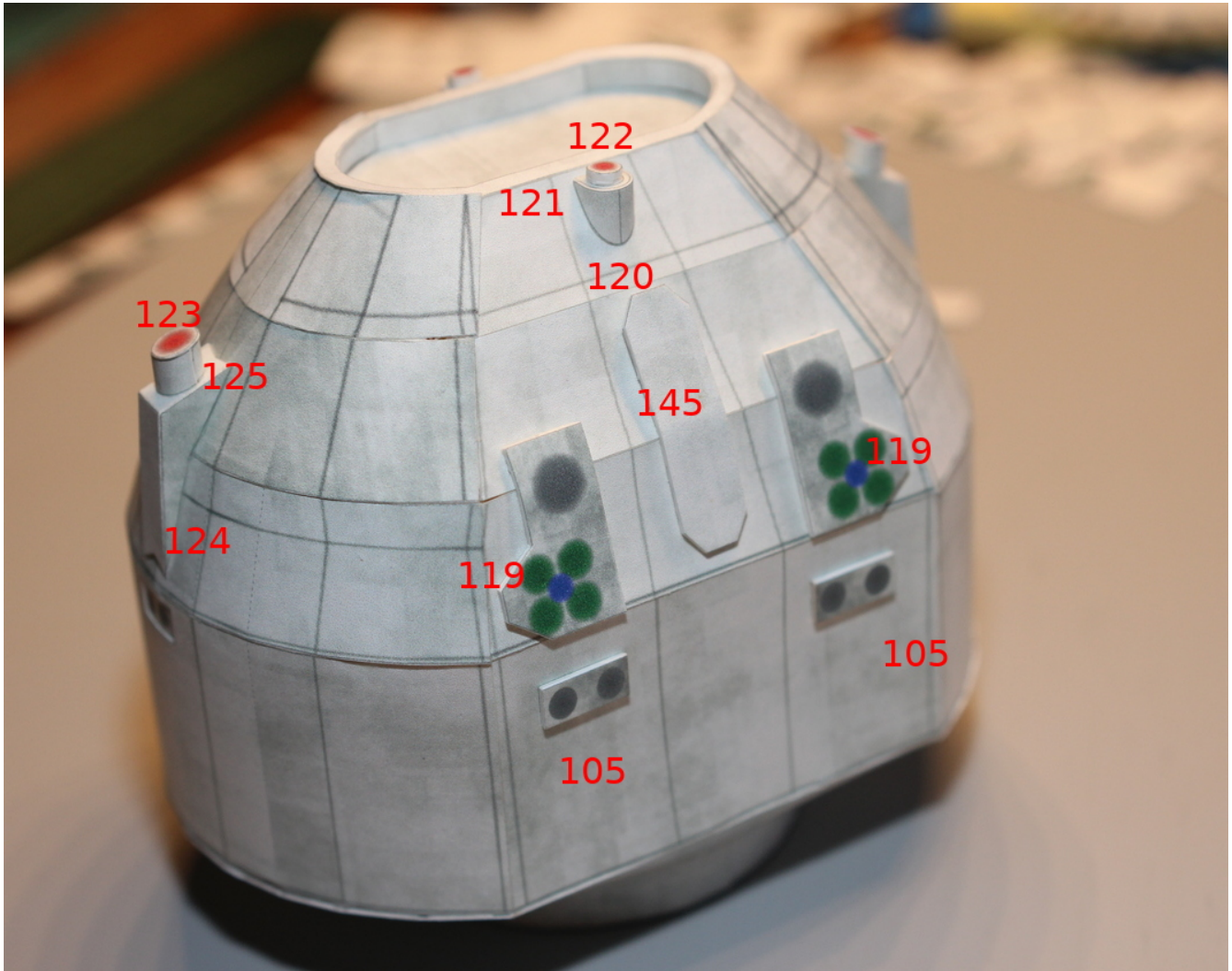
Parts 113/114, 115, and.... and crap.... I forgot to label the laser face parts positioned next to part 115... Well, all those make up the dorsal and ventral laser. The face is laminated up to .5mm.



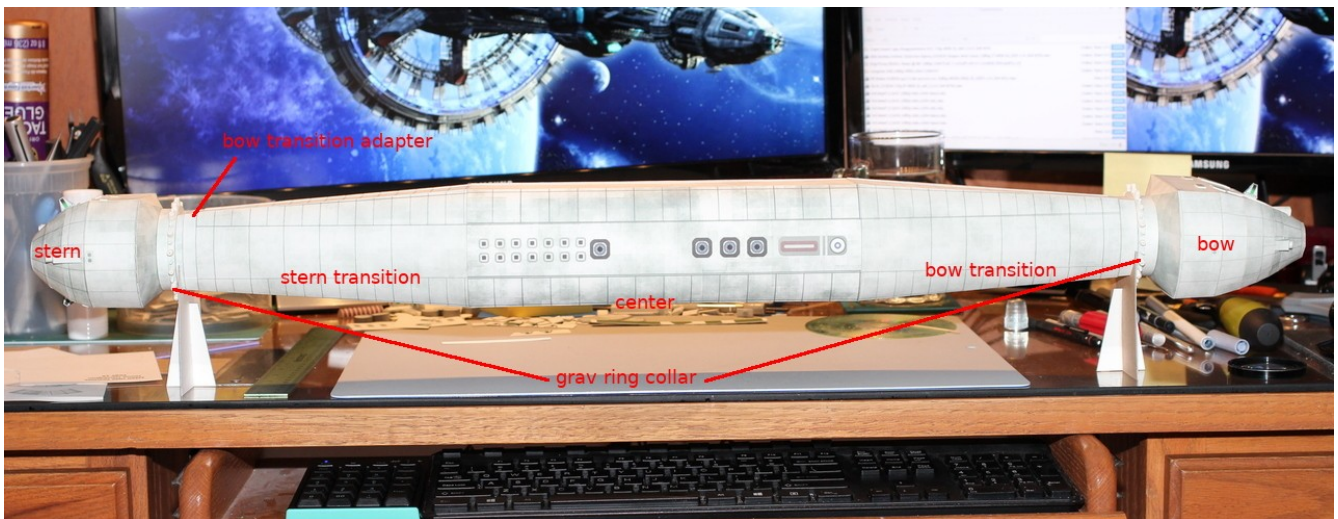
The mount for the sensor sail is made of part 145. The mount, part 145, gives you a home for the sail itself, part 39.



Holy crap, there are a ton of numbers on this image... it is the stern... very similar to the bow construction. The ring is made up of 106s and 107. The rear face of the stern is made up of parts 108-112 (just like the bow). The body of it is made up of parts 129 through 146.



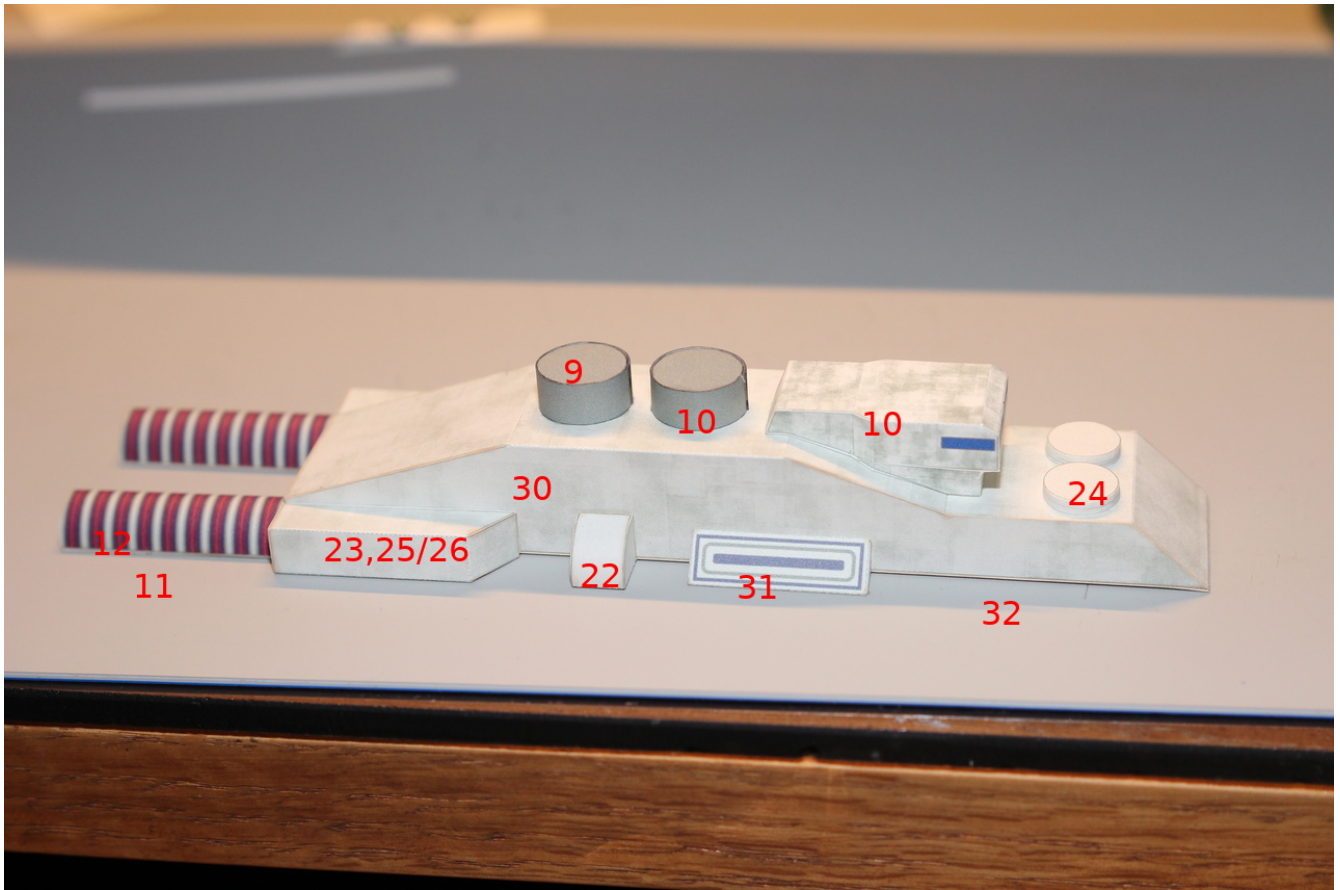
Wow... lots more numbers again. It is almost like I don't have letters available. [I'm slogging down a pile of Gin Fizzes.] This is very similar to the bow. The thrusters on both dorsal and ventral faces (top and bottom) are made of parts 105. Parts 119 go on the ventral and dorsal faces. The sponsons on the stern are made from part 124, with angled rings made from part 125. The laser face is made from part 123. The center line lasers are made of up of 120, 121, 122. Part 145 is the mount for the sensor sails on the rear of the ship (one both top and bottom). While not pictured here, the sensors sails are made of parts 40 and 39.



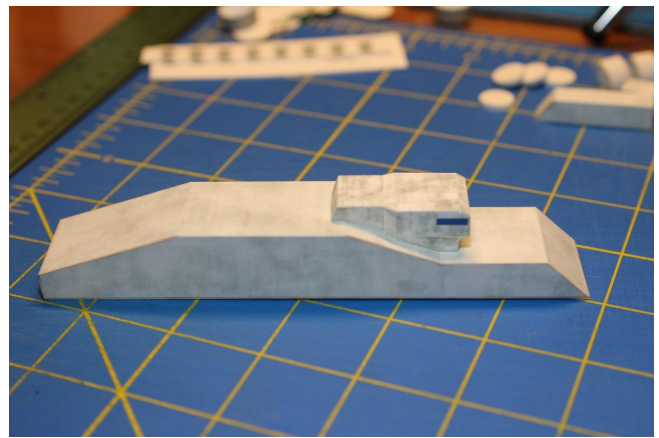
Here are the major body segments connected to each other. The two transitions are slightly different so label them appropriately. Both grav node collars are identical.

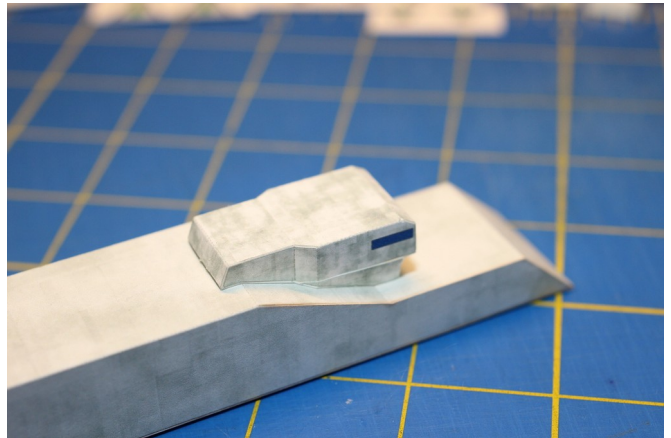
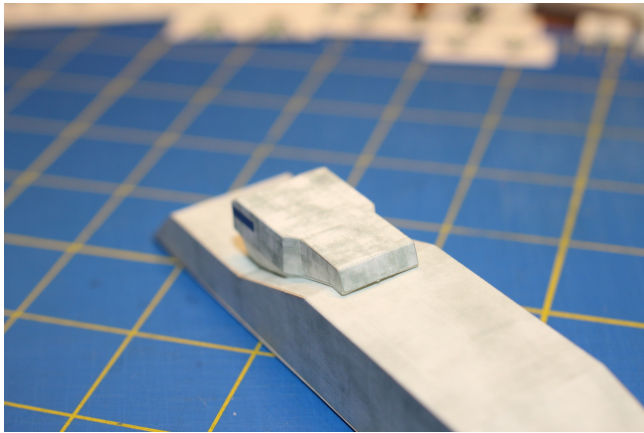
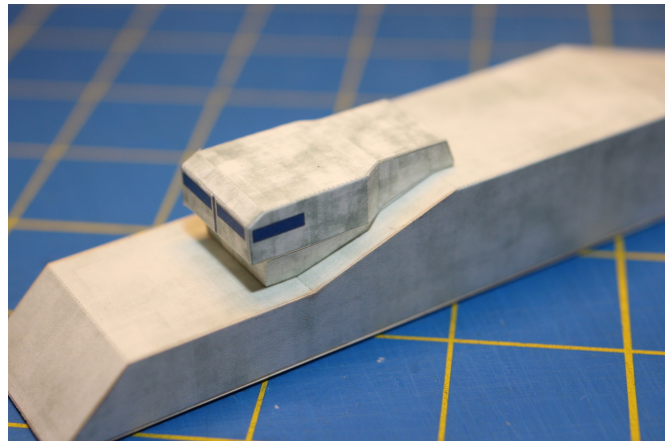
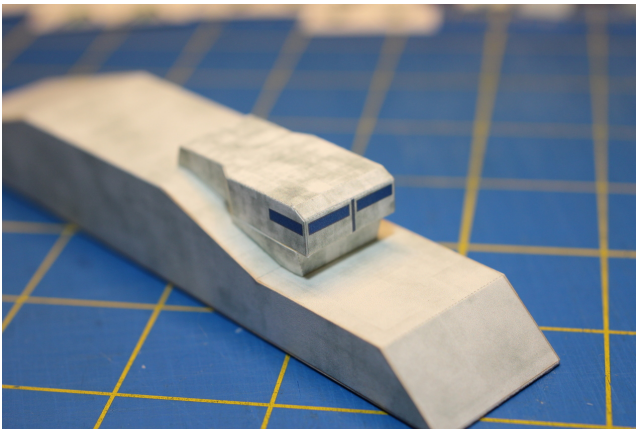


This is the detail on the bottom of the ship. The bottom block is made of part 3, the sensor sail by 4-7, and the grate is made up of parts 14 and 15. Parts 14 and 15 are laminated to 1mm thick.

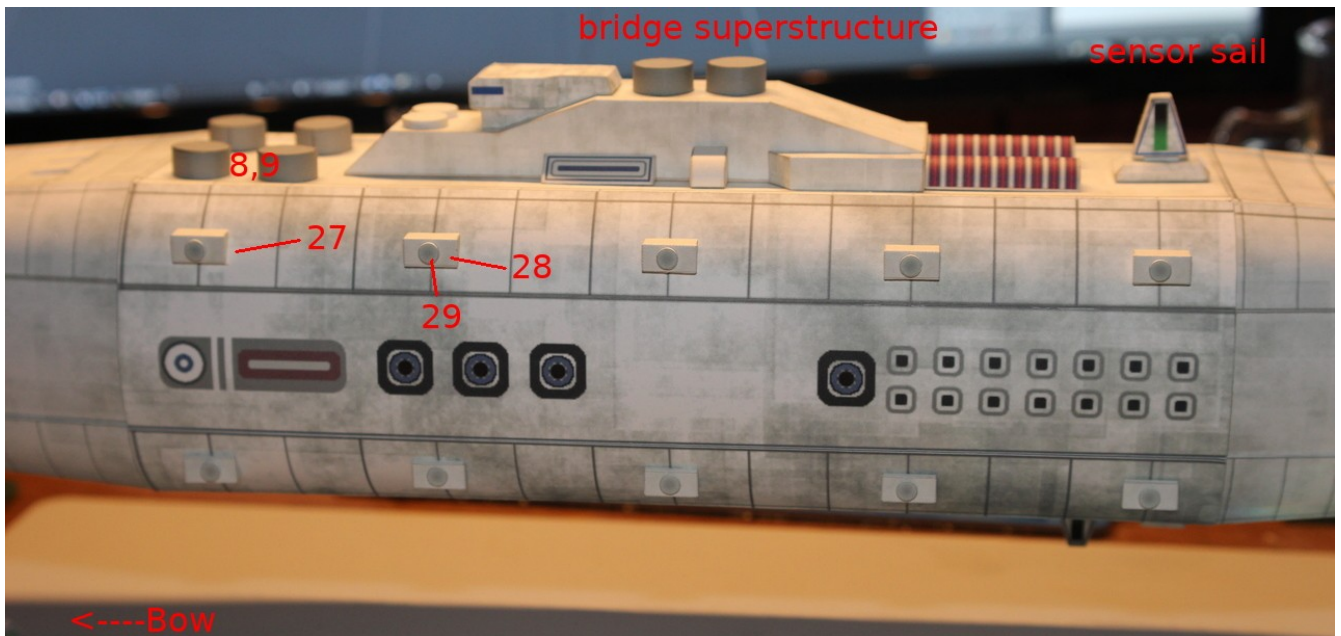


This is the upper superstructure. The main body is part 30, with part 32 as the bottom. The wings of it are made up of parts 25 and 26 with part 23 used as the inside face. Cylinders are made from parts 9 and 10. The rear coils are made of parts 11 (bottom) and 12 twice over. Detail pieces 22 and 31 are symmetric on the other side. The bridge proper is made of part 10 and cylinders of part 24 (laminated to 1.5mm).

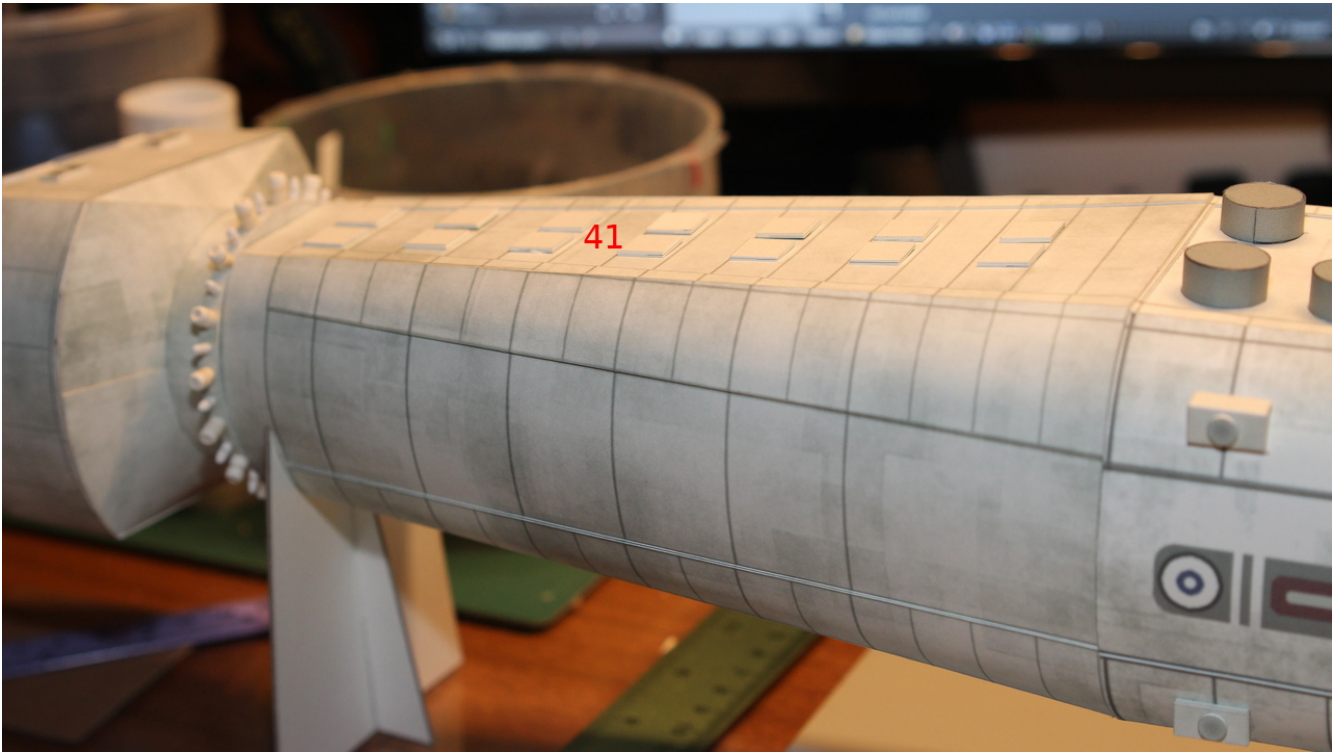




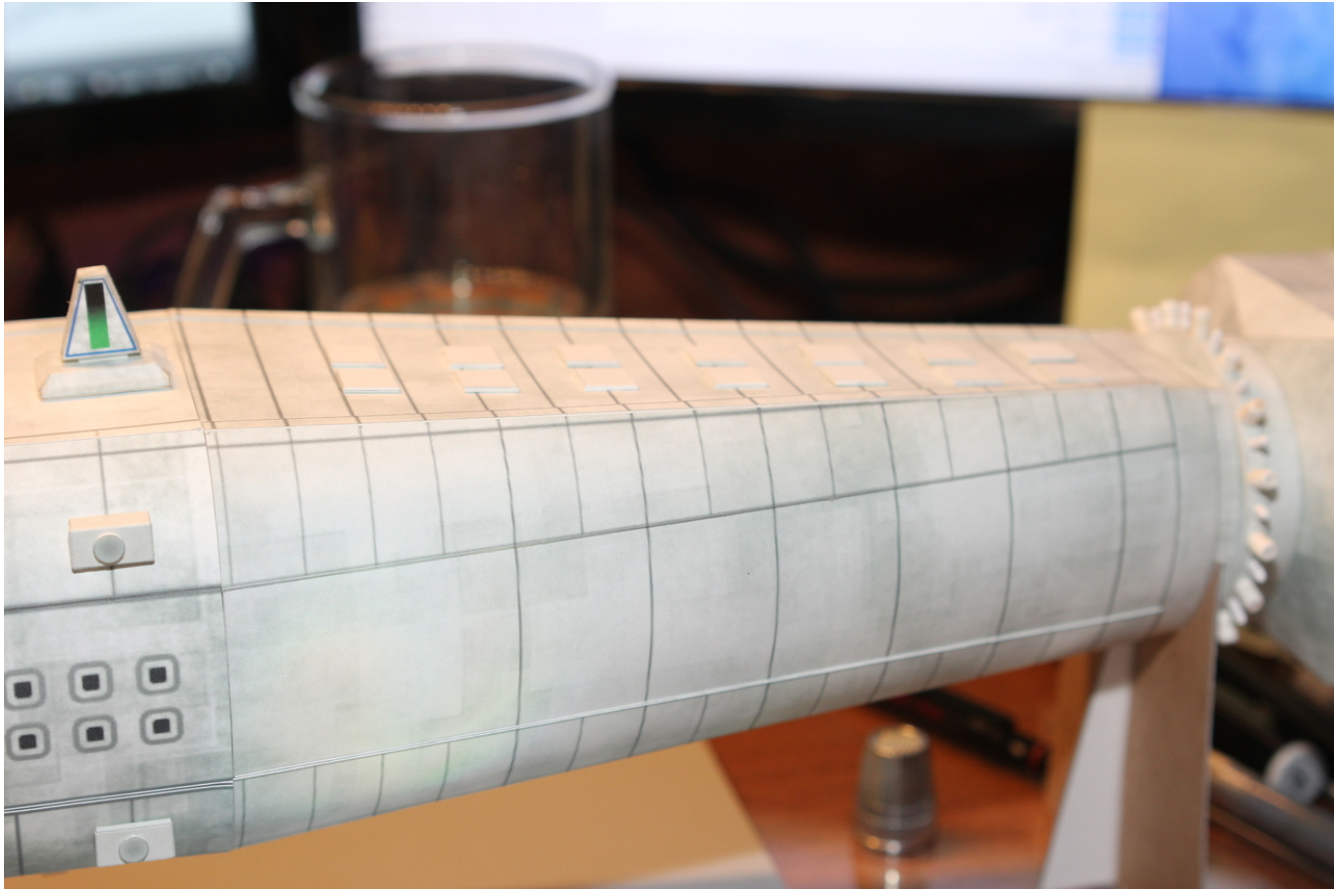
The bridge is one part but is a slightly odd shape. These images should help identify how it goes together.

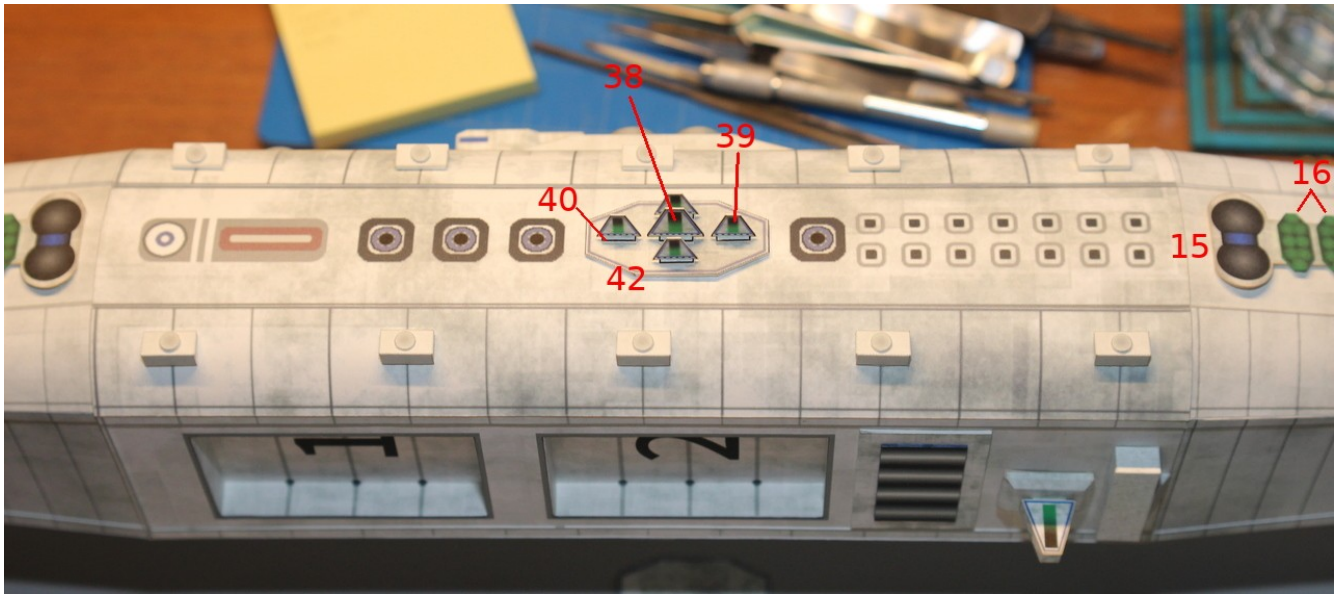


This is the center section with the cylinders (8, 9), sensor sail, and bridge superstructure in place. On the side in a total of 4 rows of 5 (2 rows each side) are the missile tubes. They are made up of the main body (part 28), the tube face (part 29 laminated to .5mm) and the back (part 27).

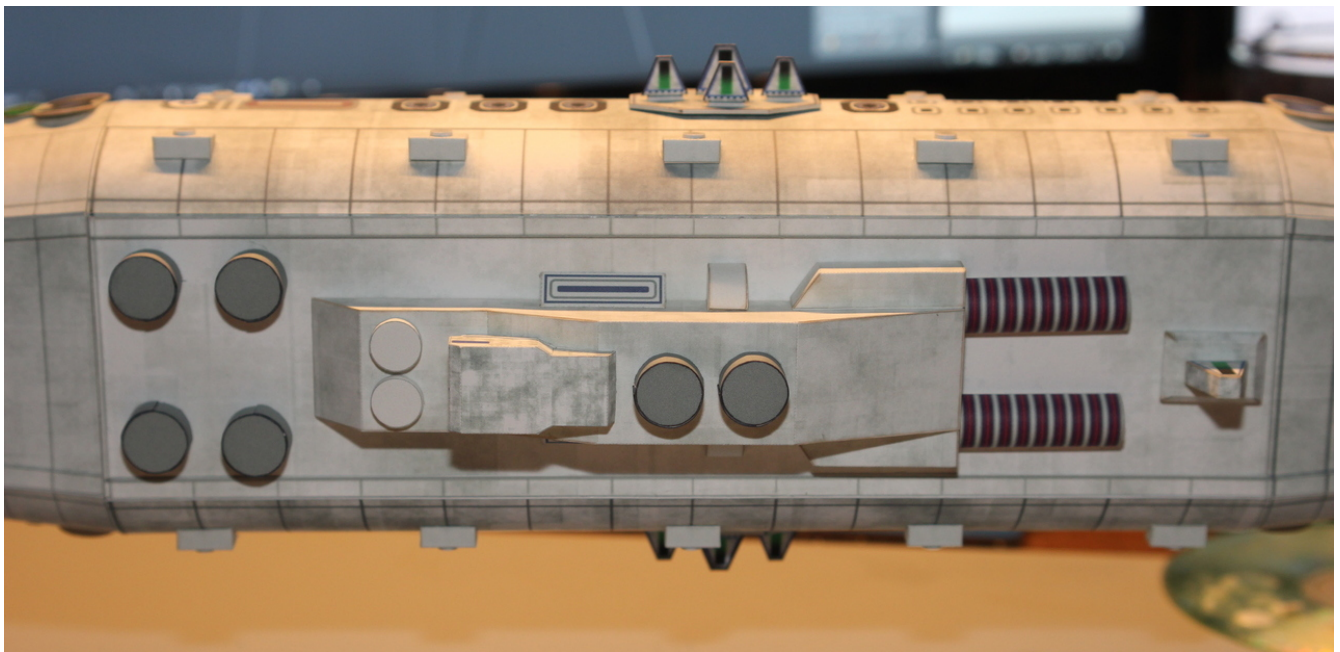


On the top of both the bow and stern transitions are a set of 14 hatches made up from part 41 multiple times.



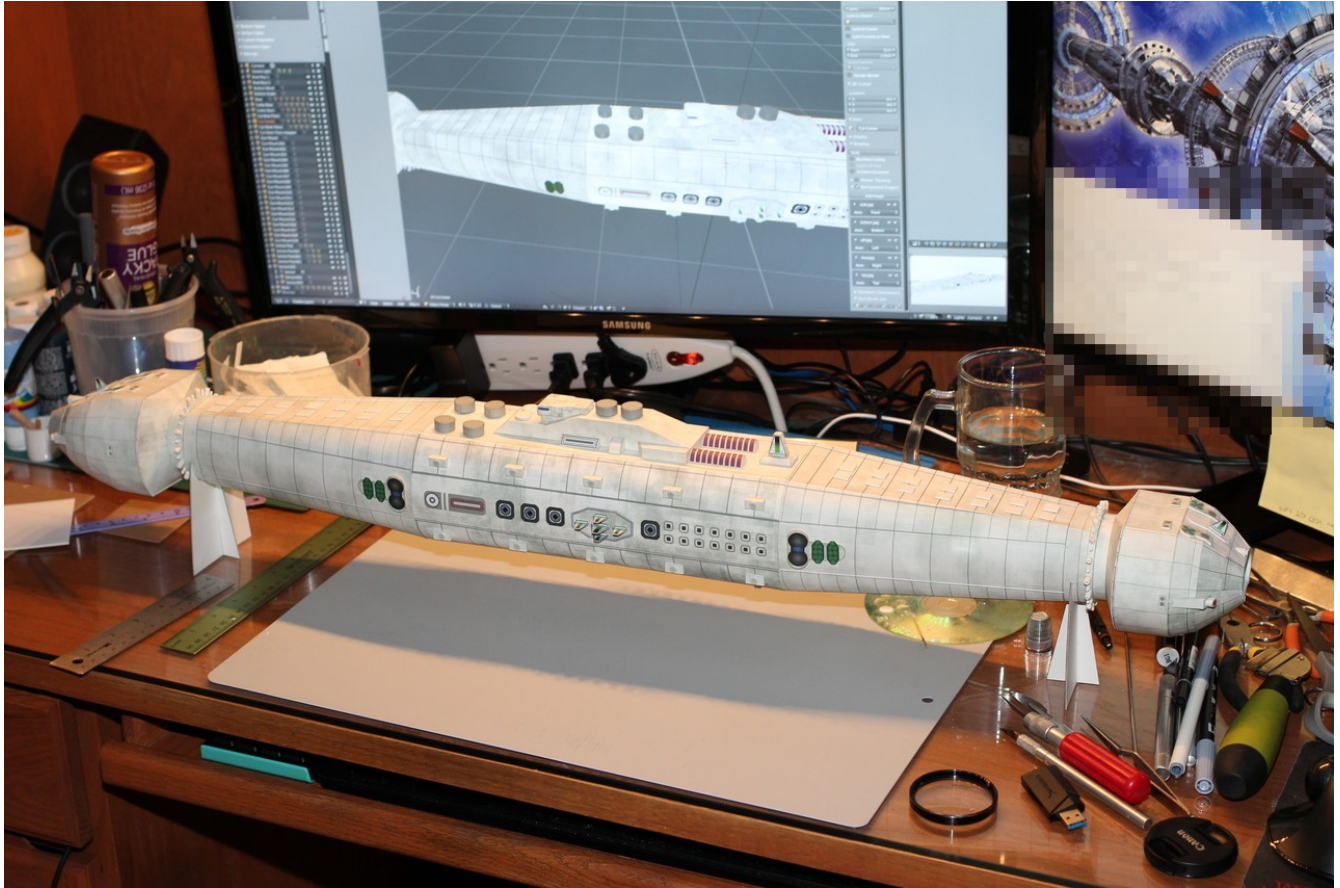
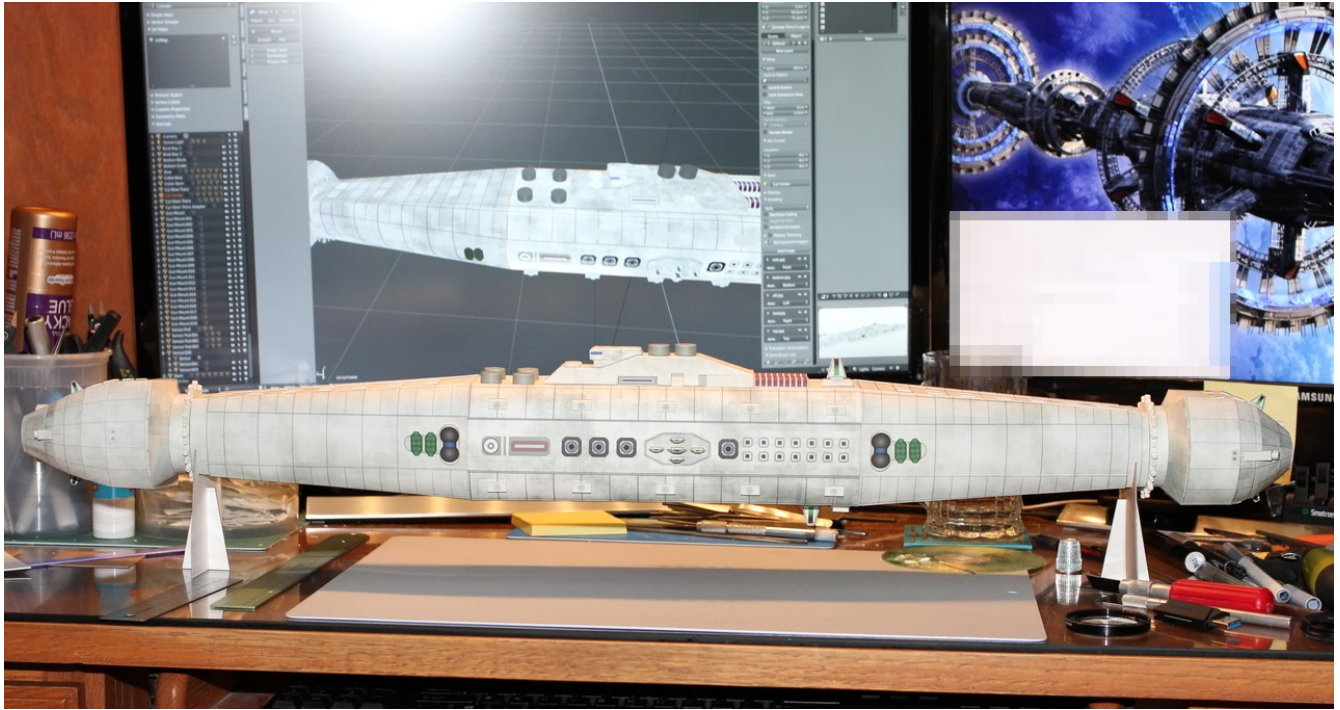


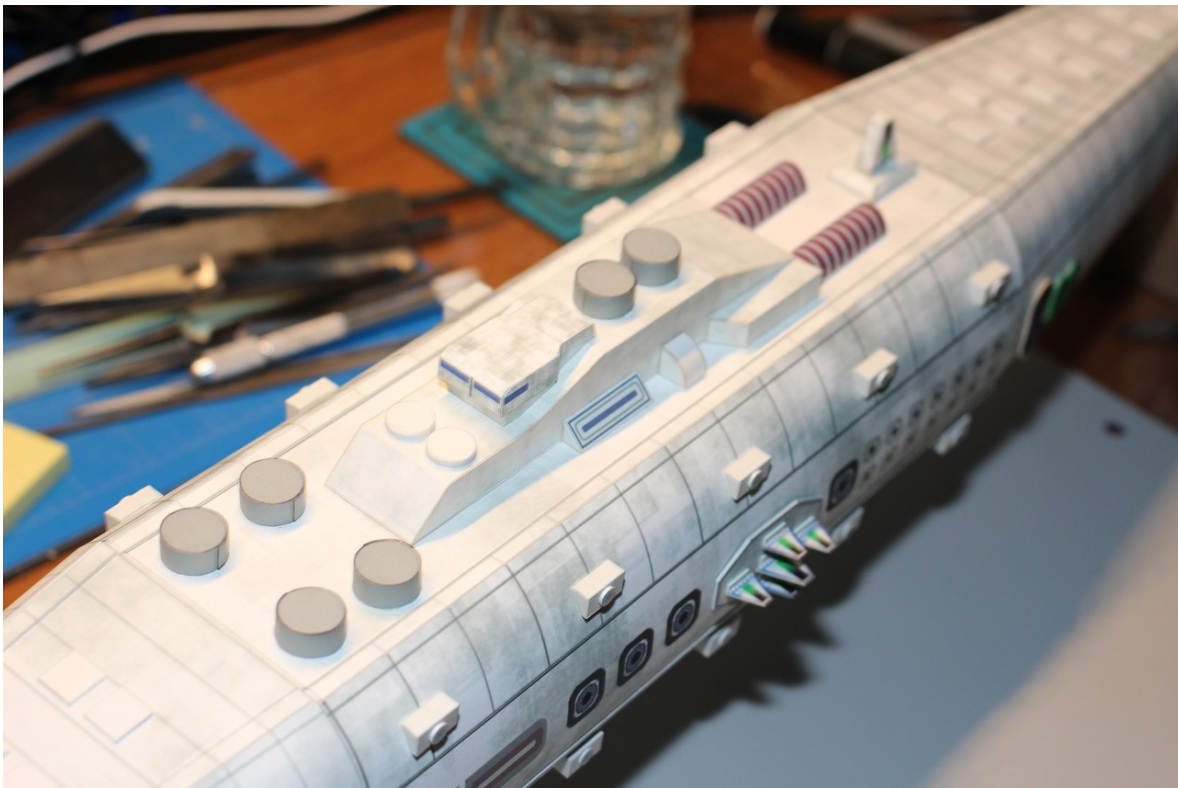
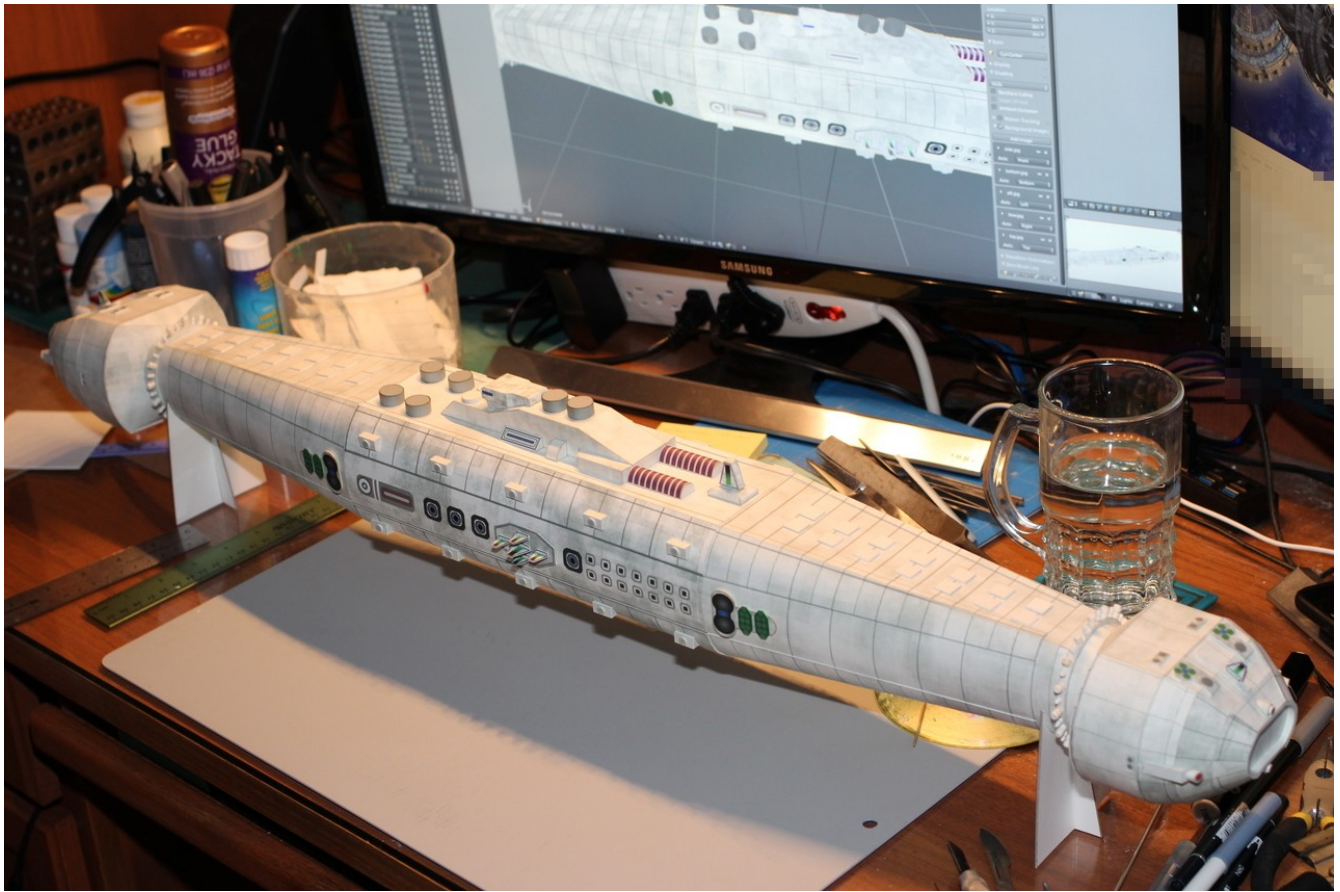
Here is the full detail on each side, bow to the left. A total of 4 sensor pods are made from parts 15 and 16 laminated. Each one is centered within the center side plate on both sides of each transition segment. The main sensor array is in the center of the midsection. There is one on either side centered appropriately. The base is made of part 42 laminated to .5mm and each sail sits on a mount made of part 40. The center sail is made from part 38 and 4 of part 39.

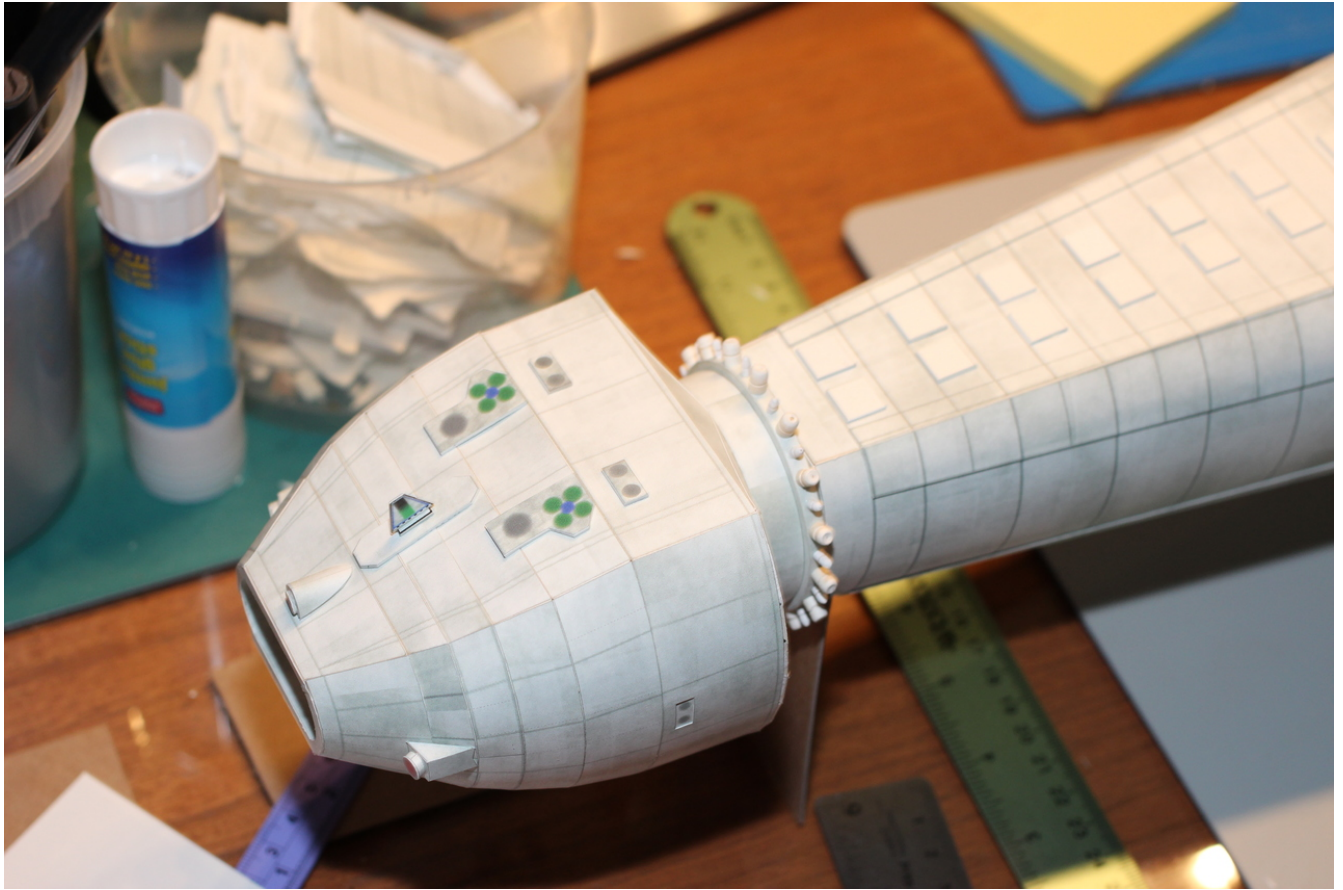


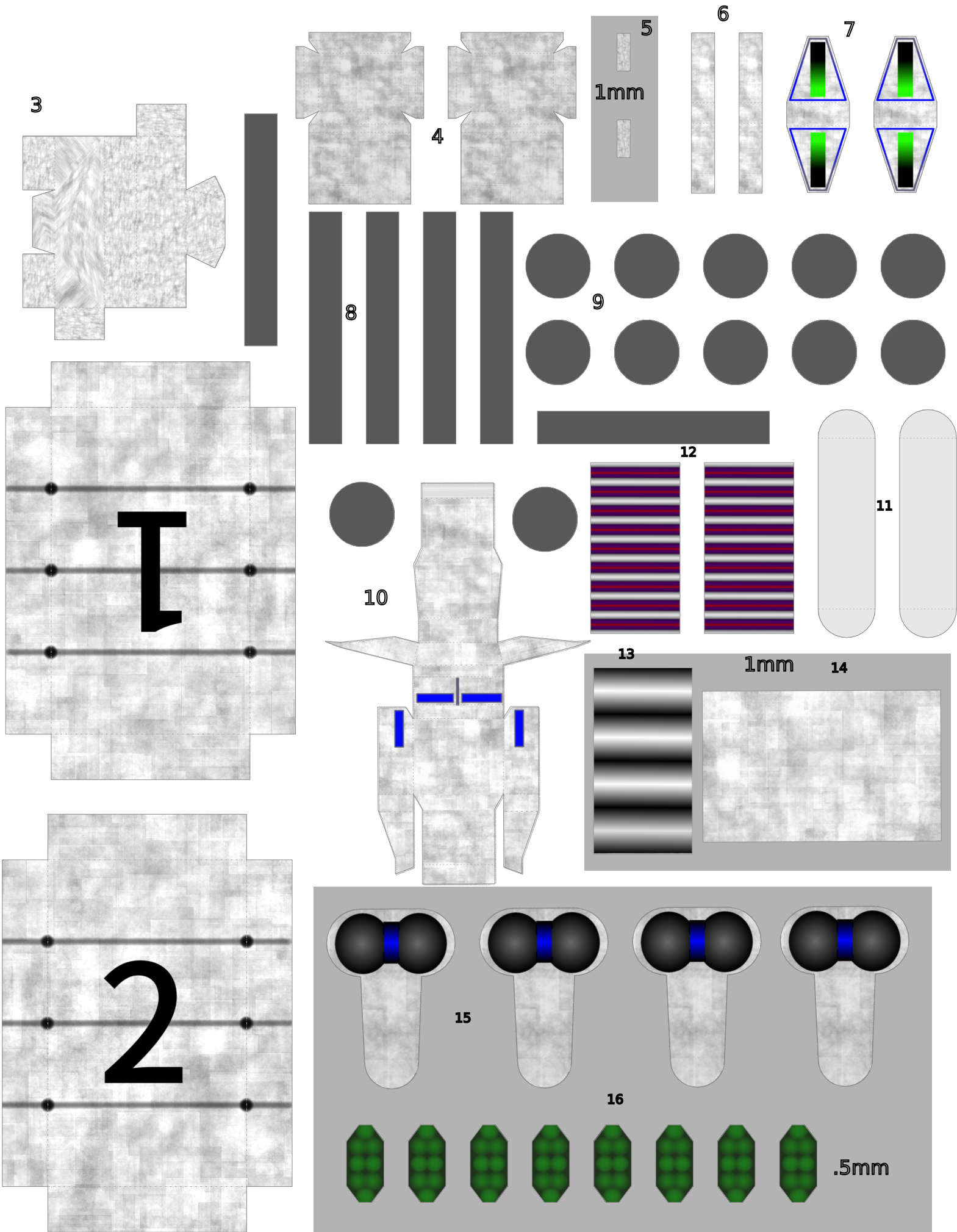
This is a view of the top detail. The bow is to the left.

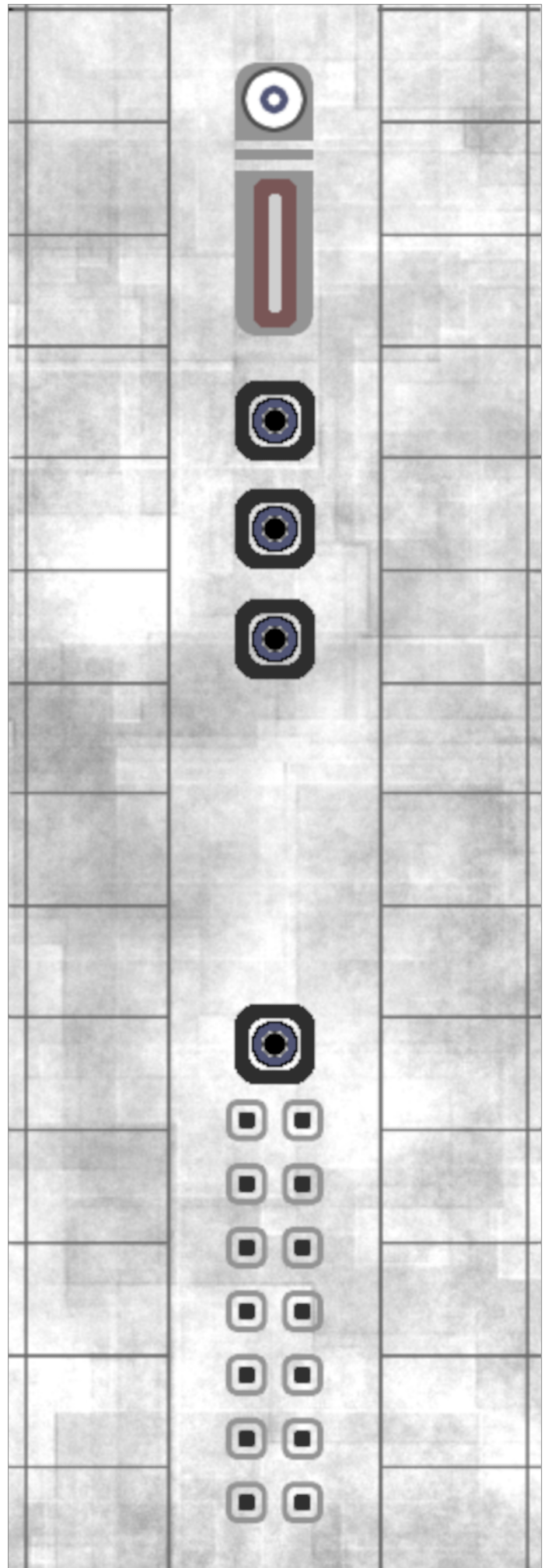
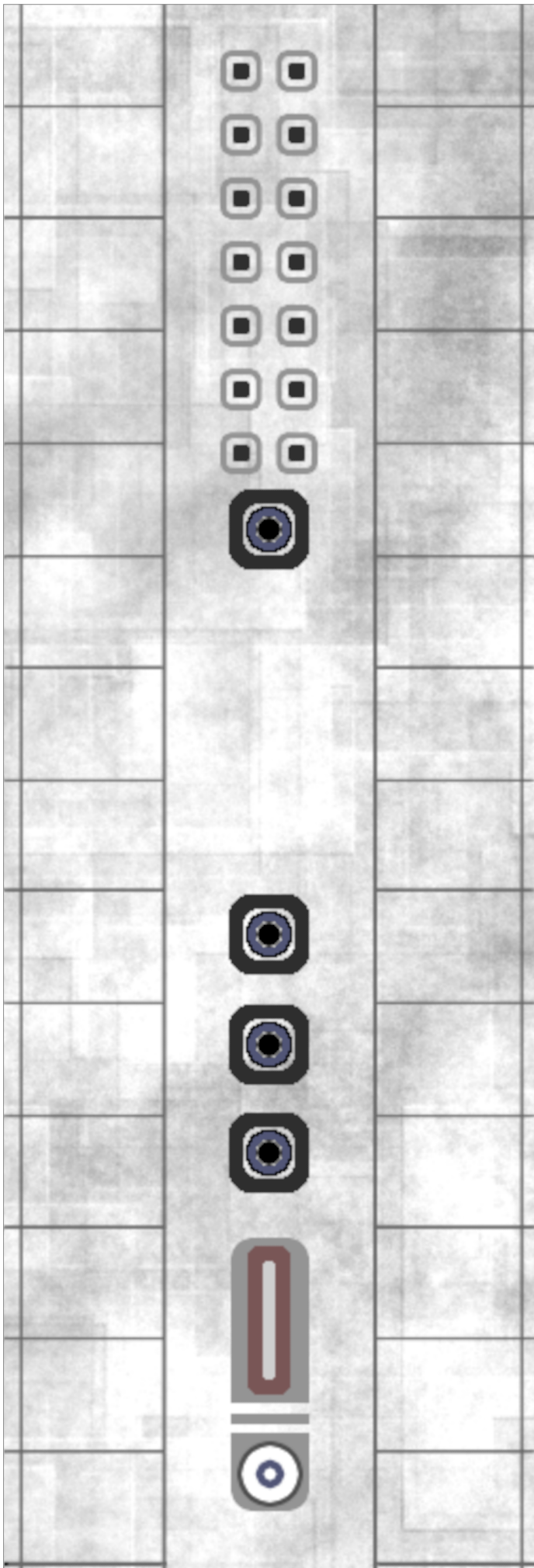
Then all that is left is ta-da!

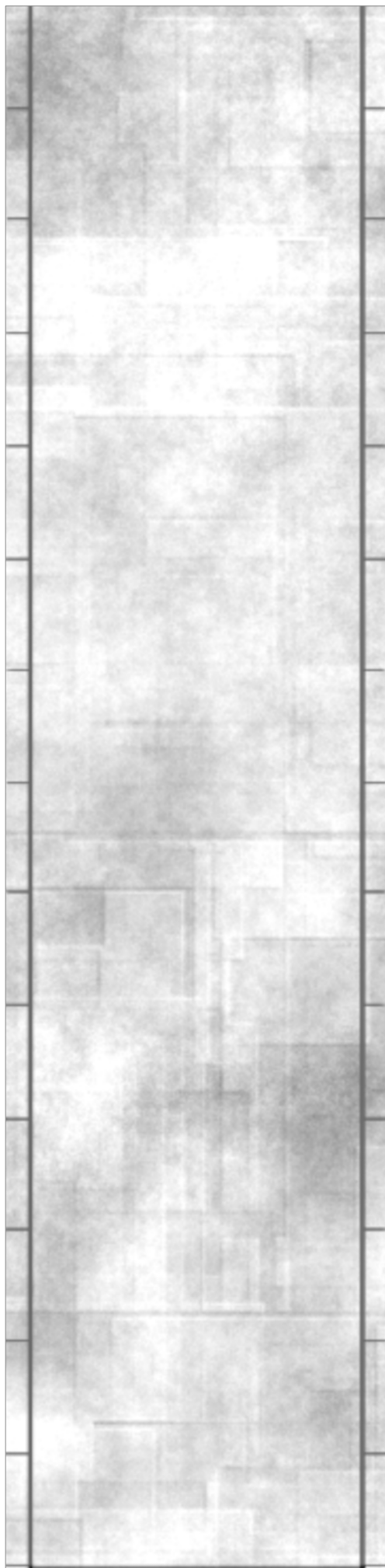




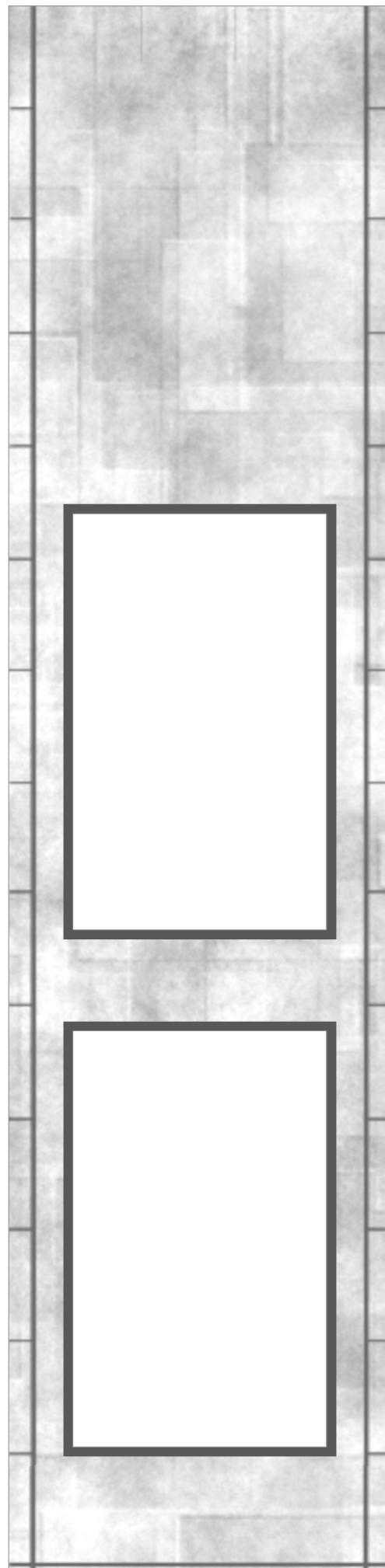








18



19

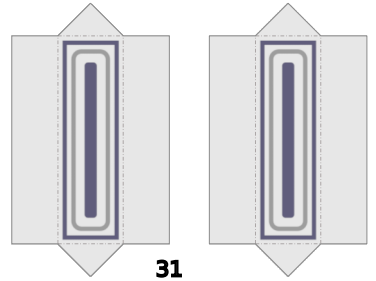
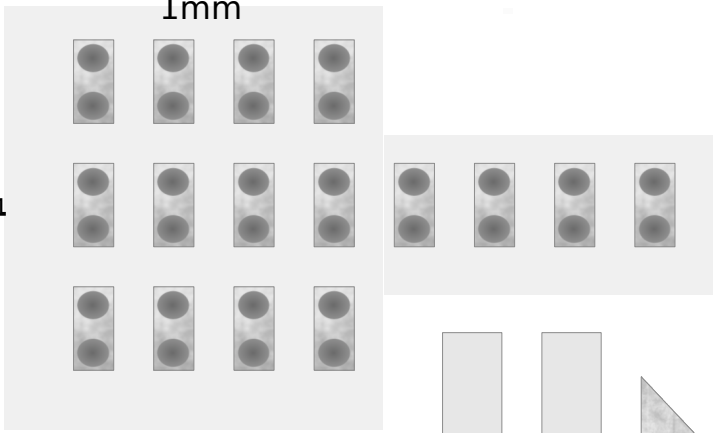


20



1mm

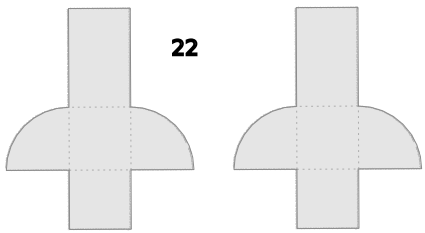
21



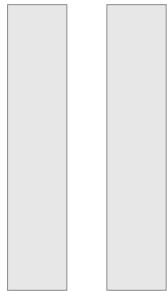
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30

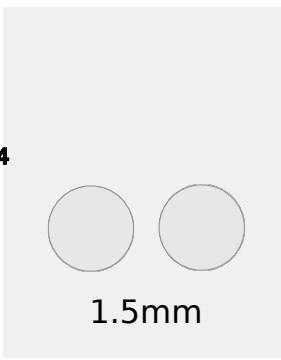
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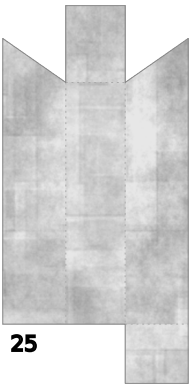
23



24

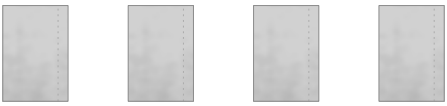


1.5mm

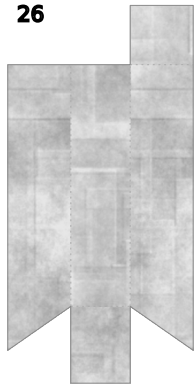


25

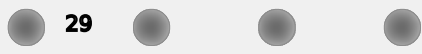
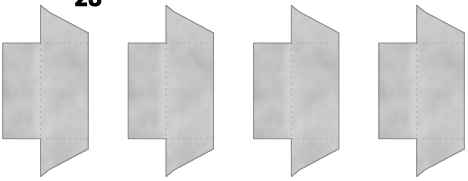
27



26

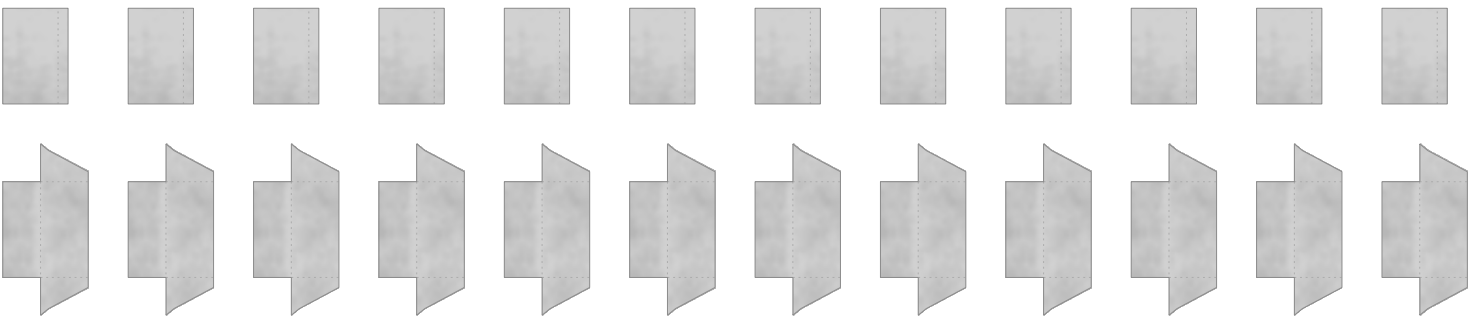
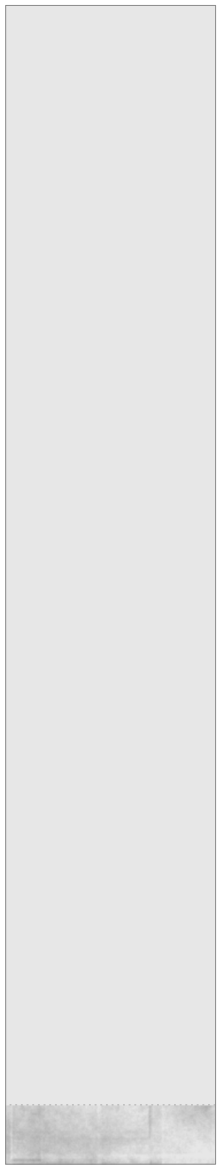


28

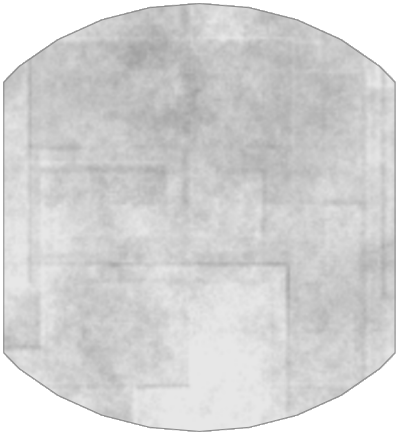


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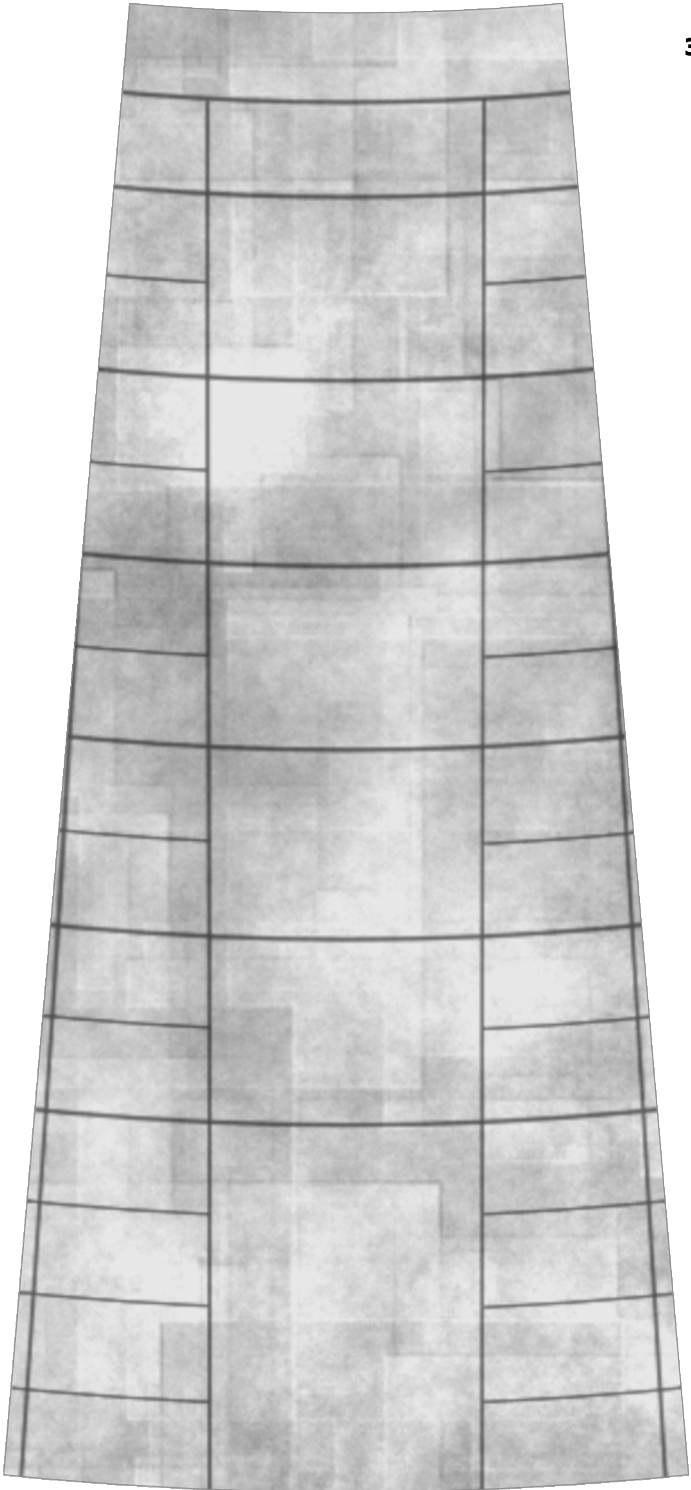
32



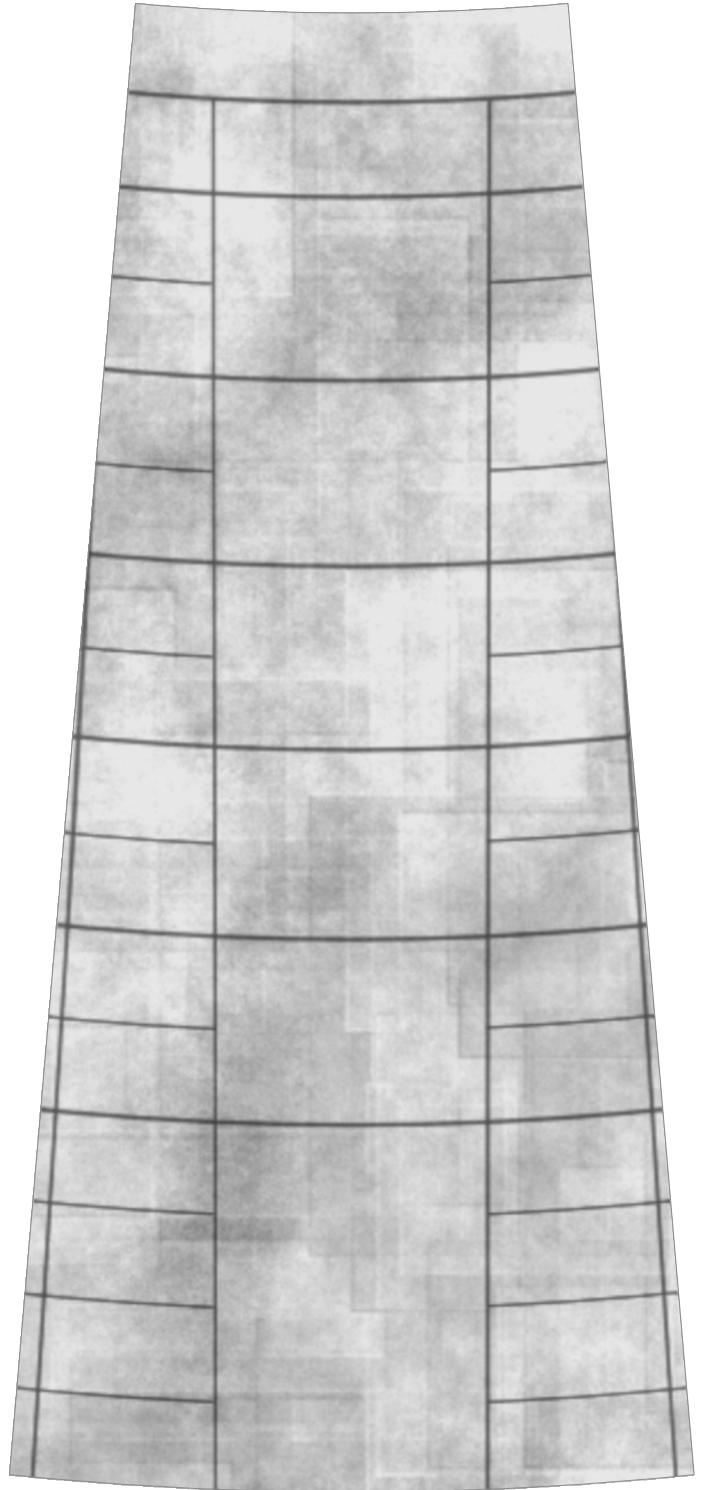
1mm



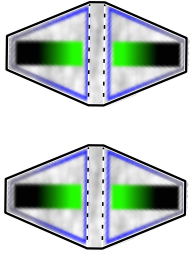
33



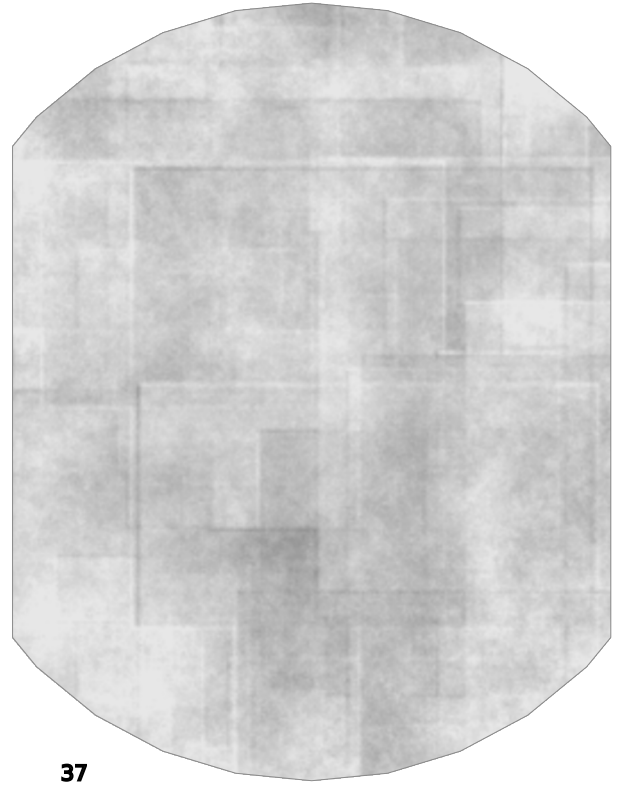
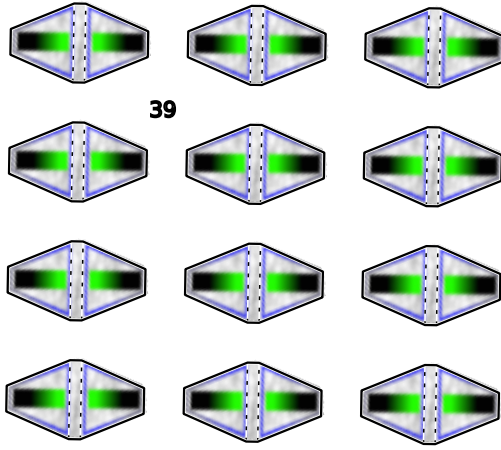
34



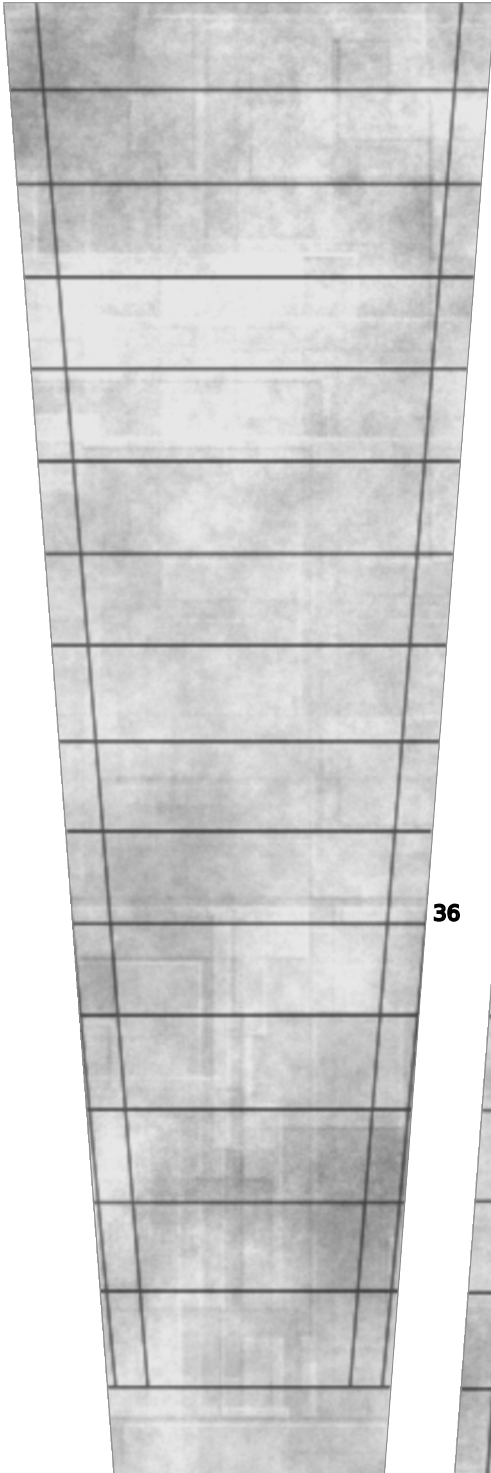
38



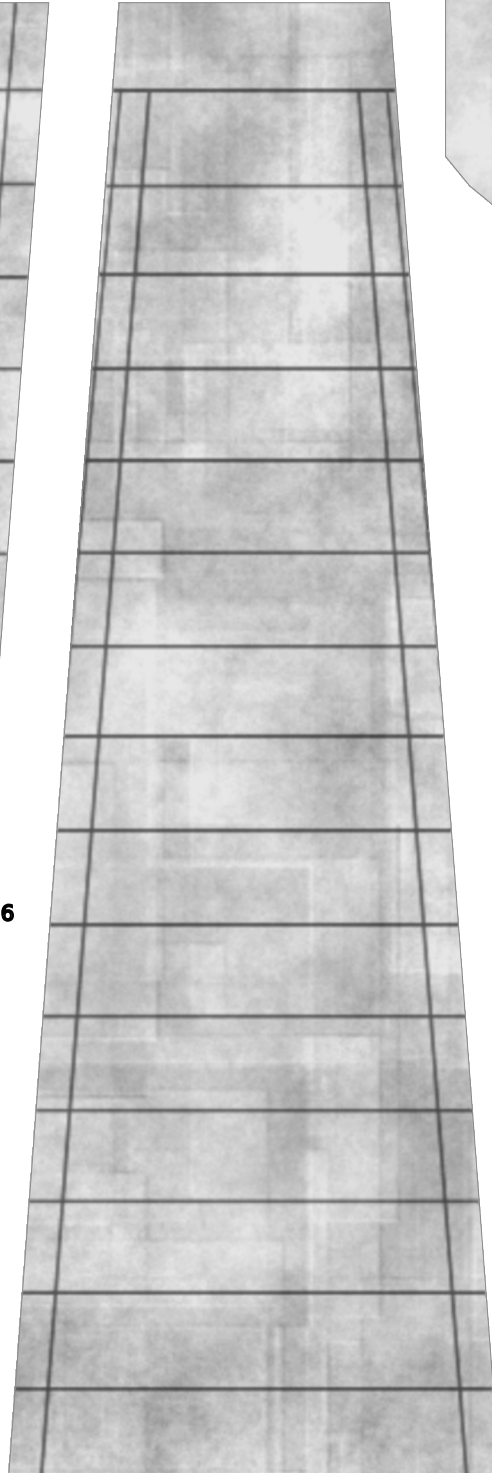
39



37



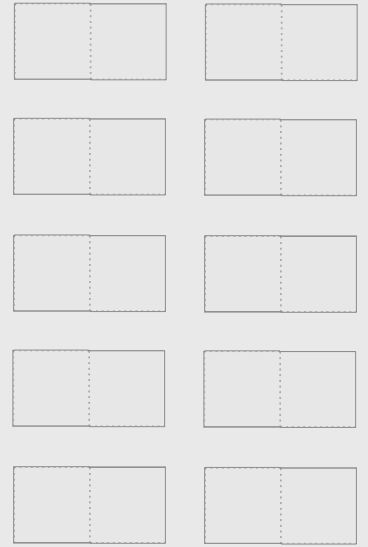
36



40

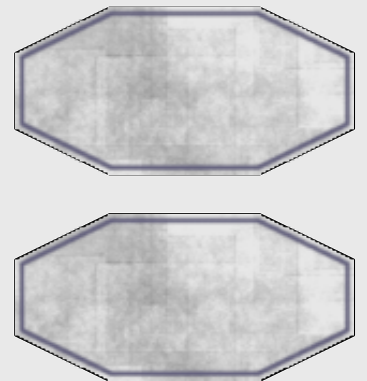


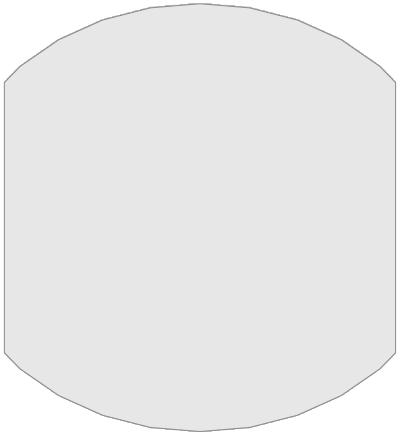
41



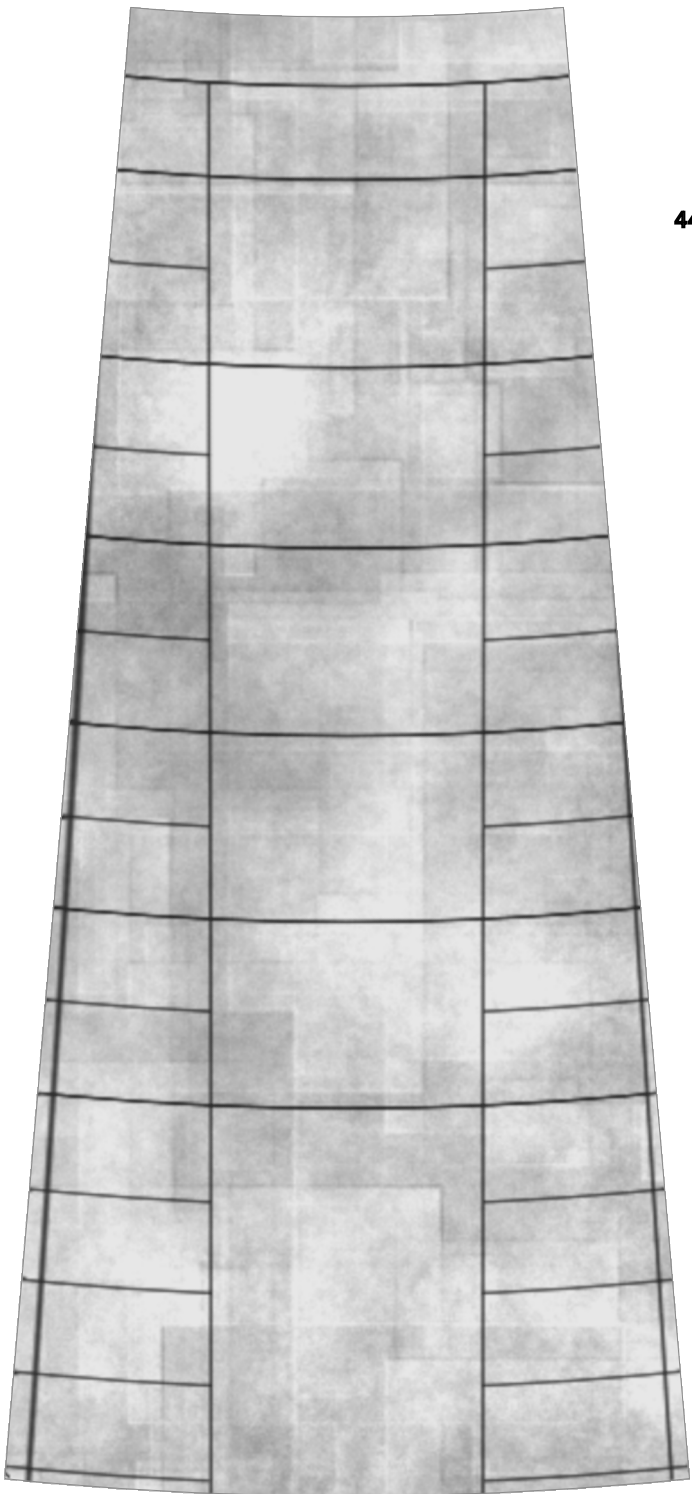
.5mm

42

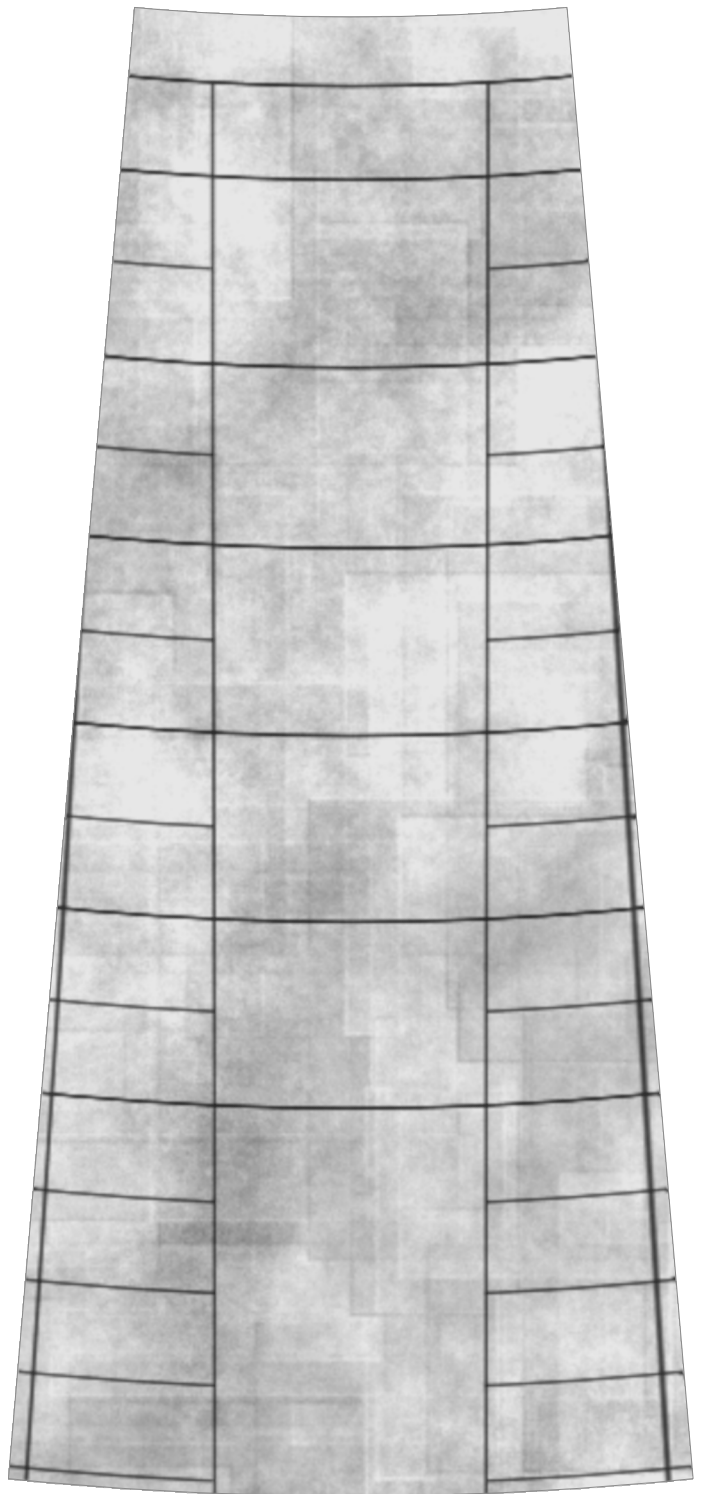




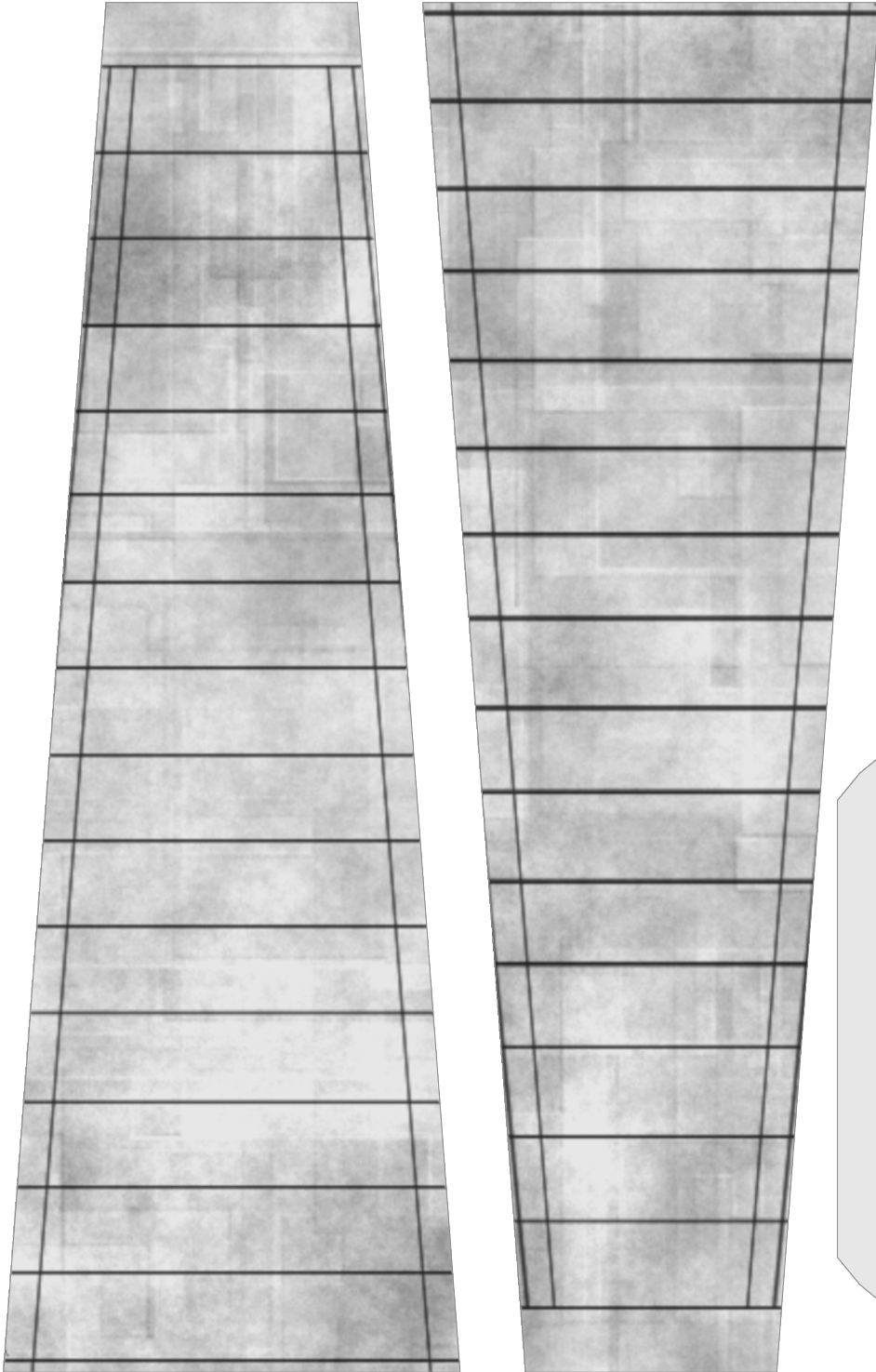
43



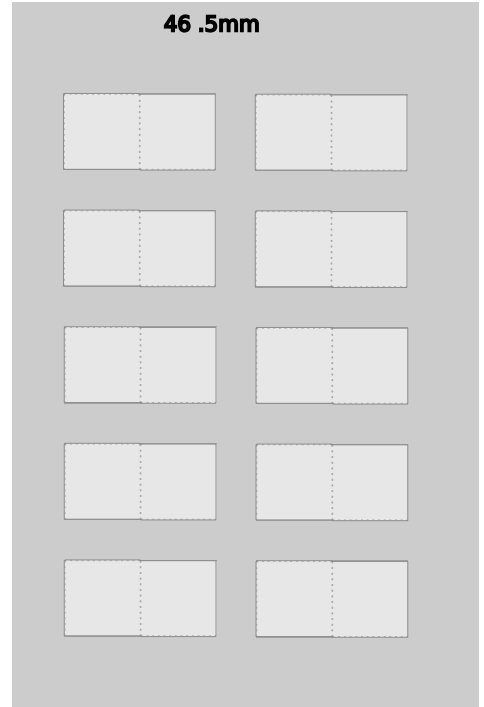
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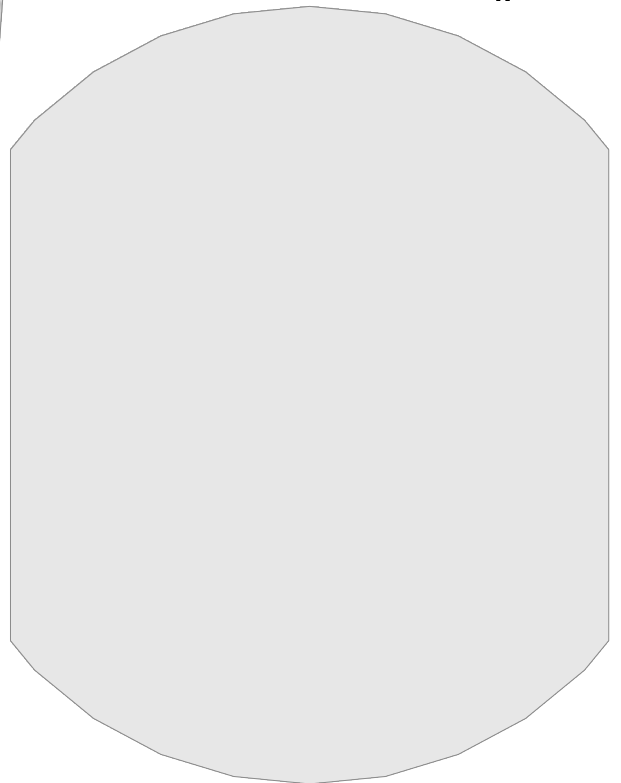
45



46 .5mm

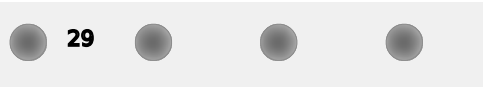
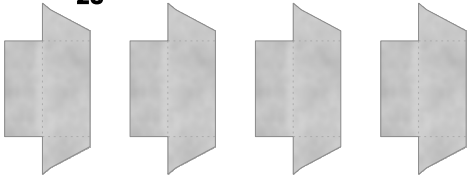


47



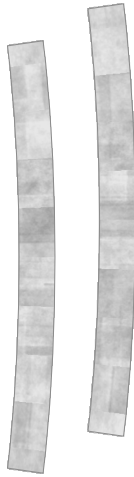


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29

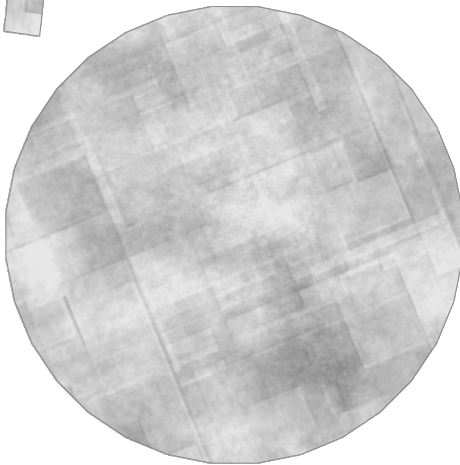
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50



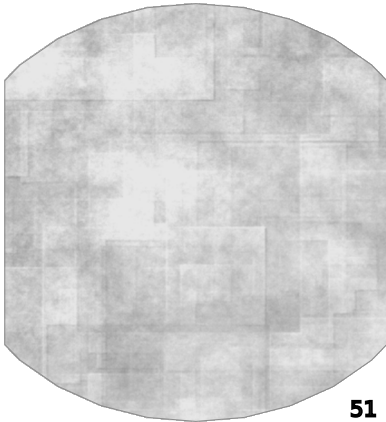
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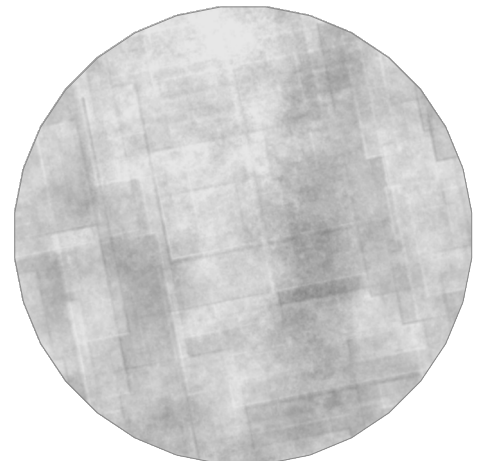
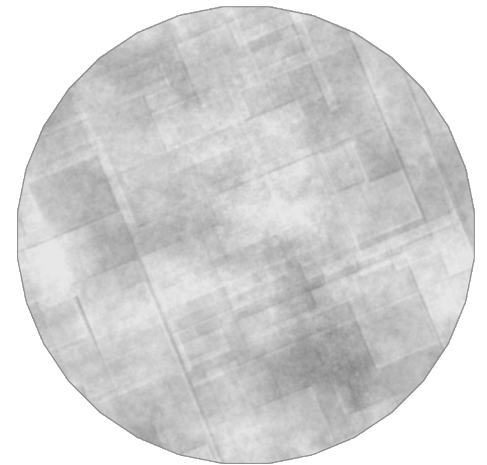
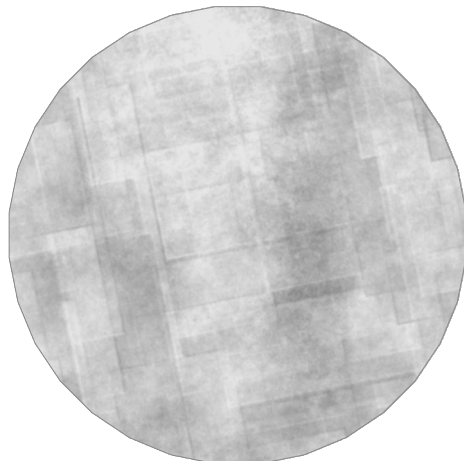
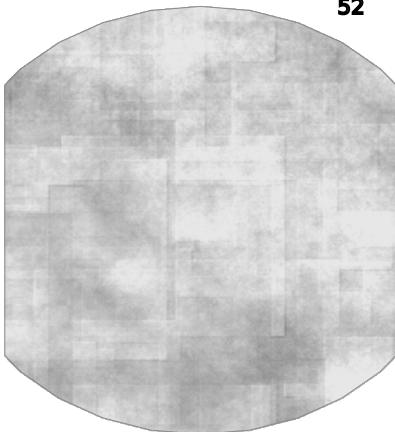
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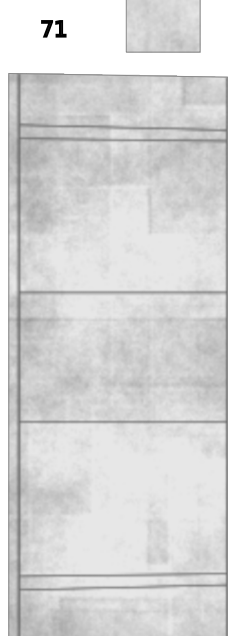
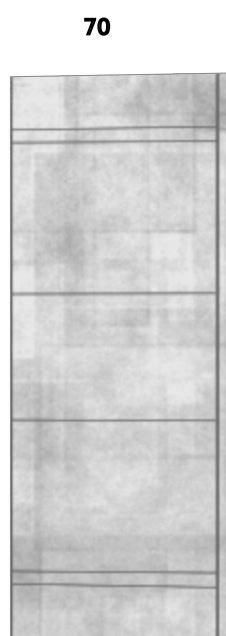
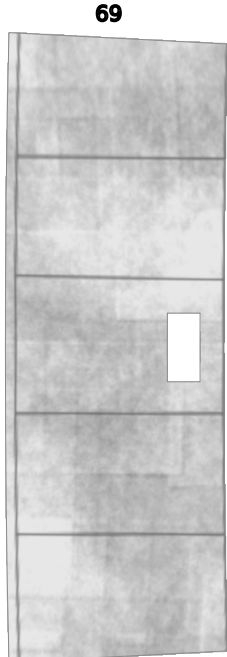
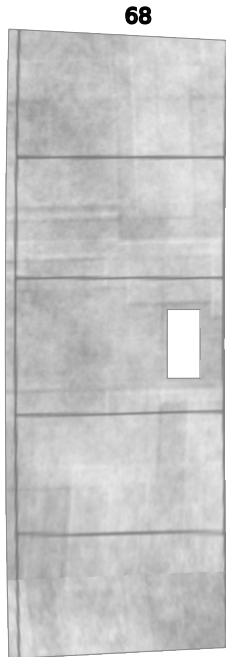
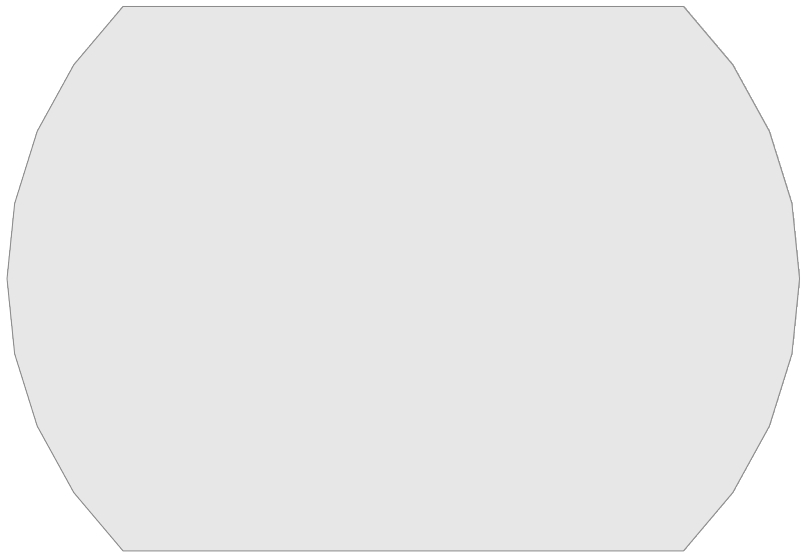
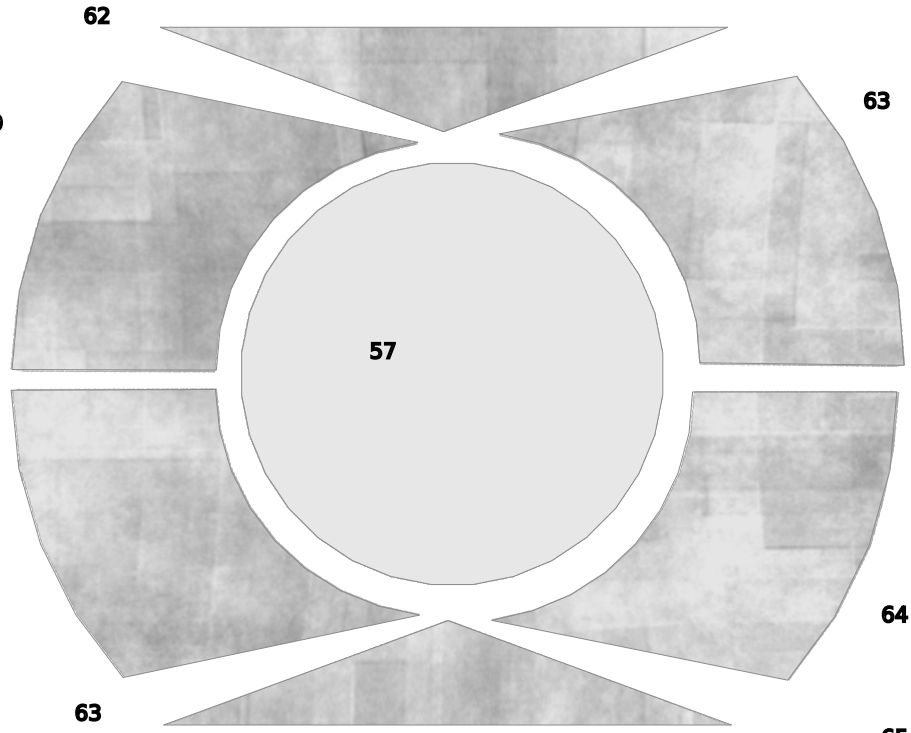
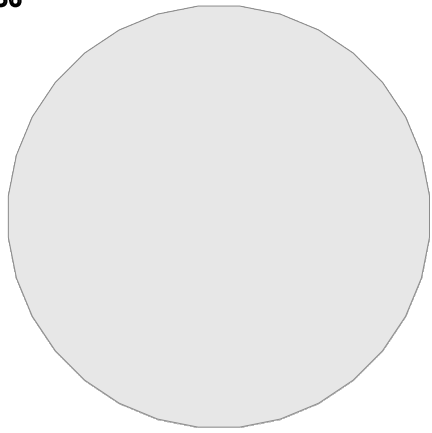
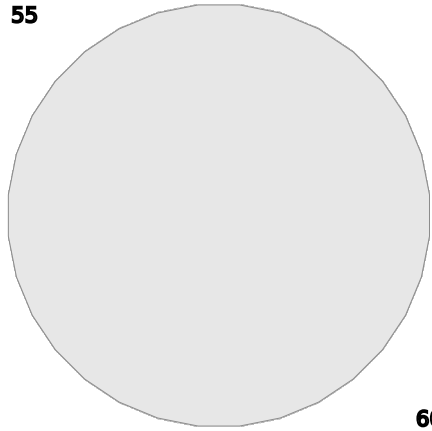
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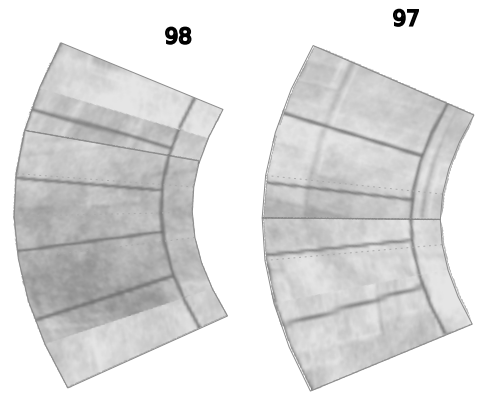
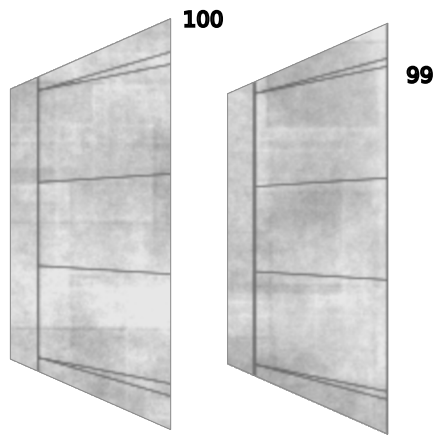
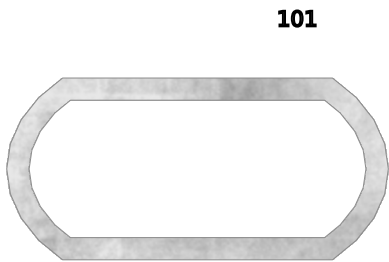
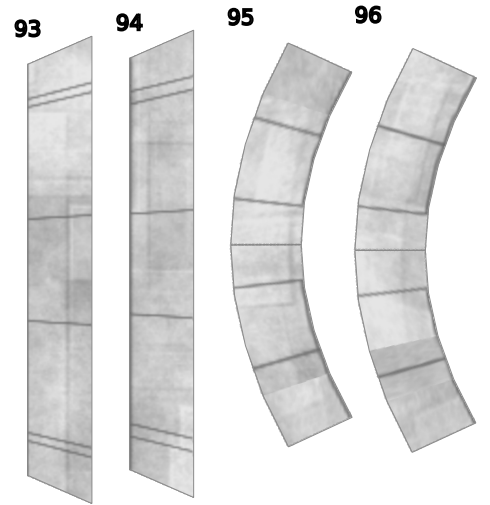
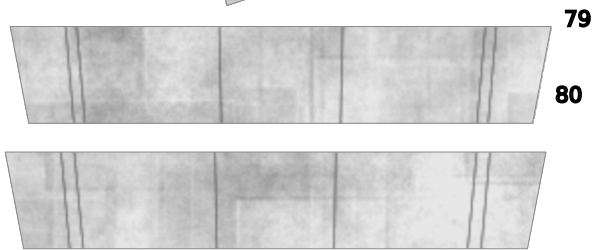
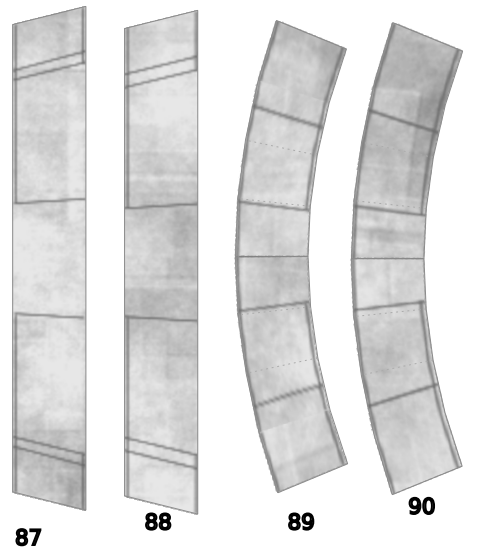
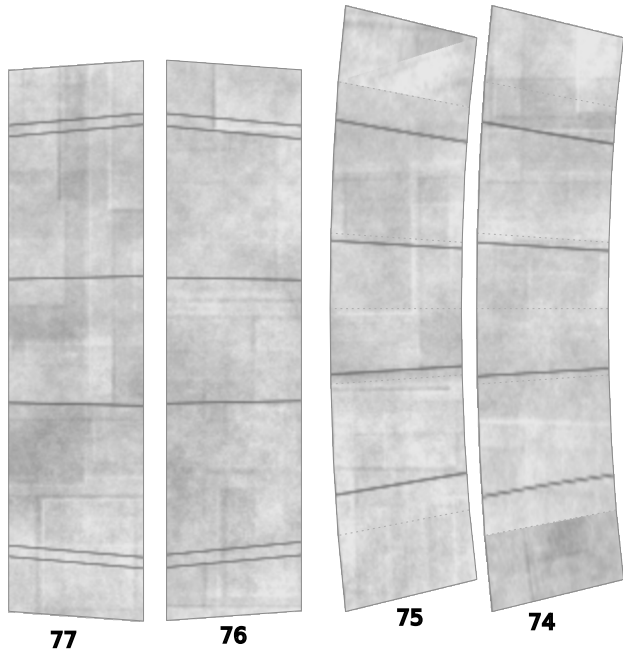
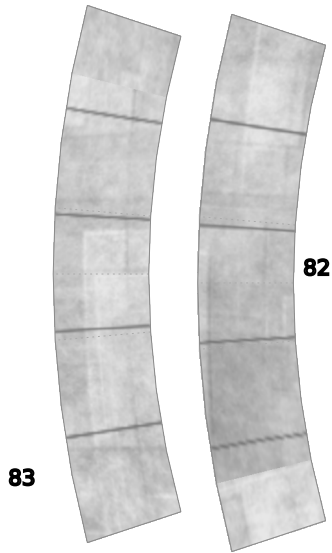
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51
52







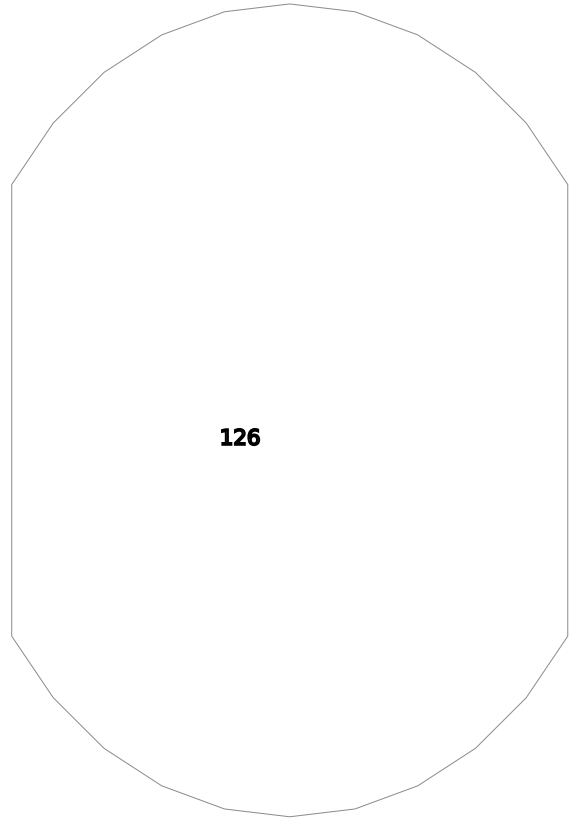
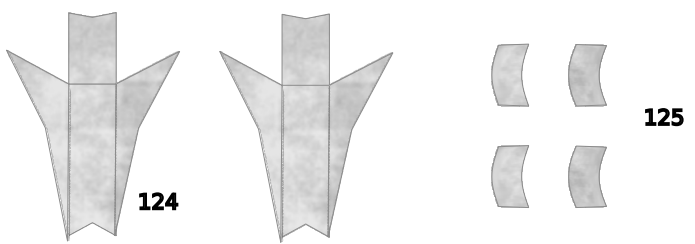
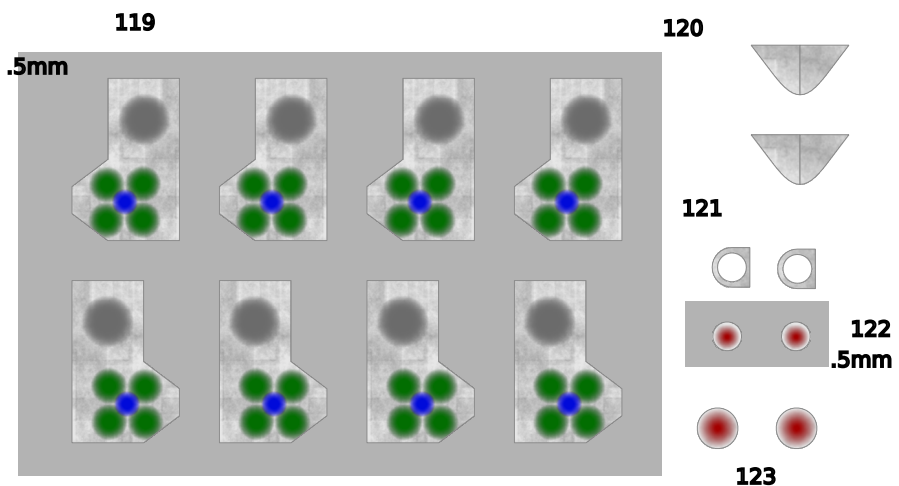
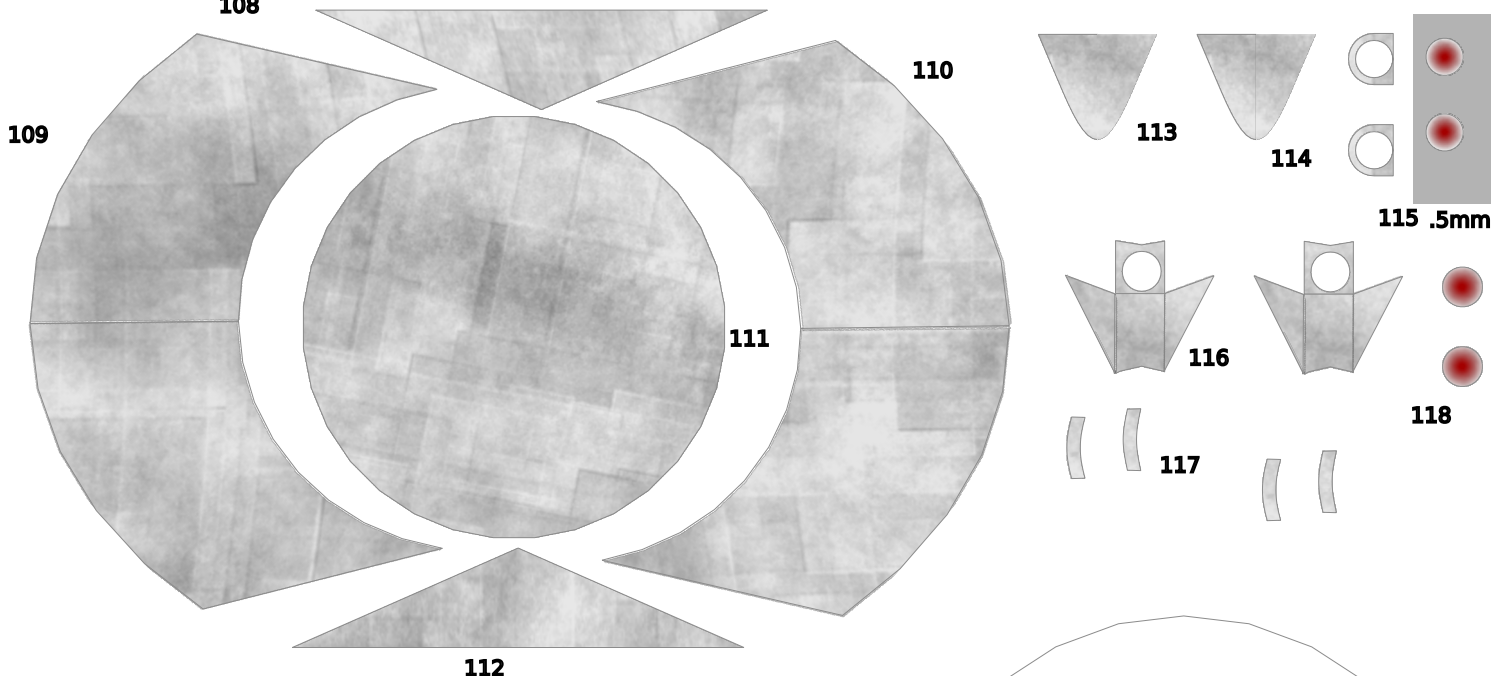
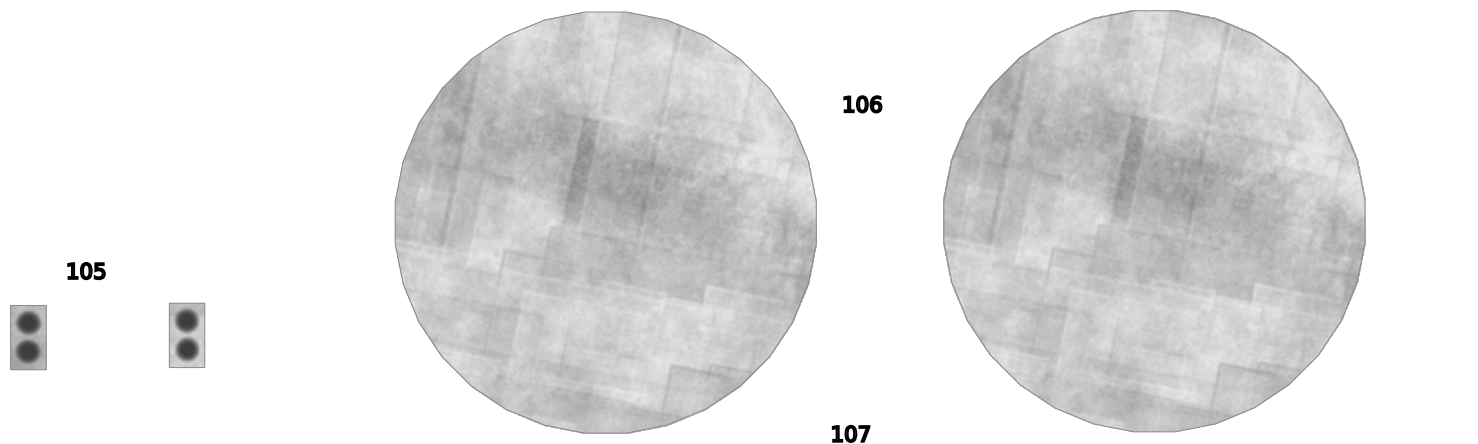
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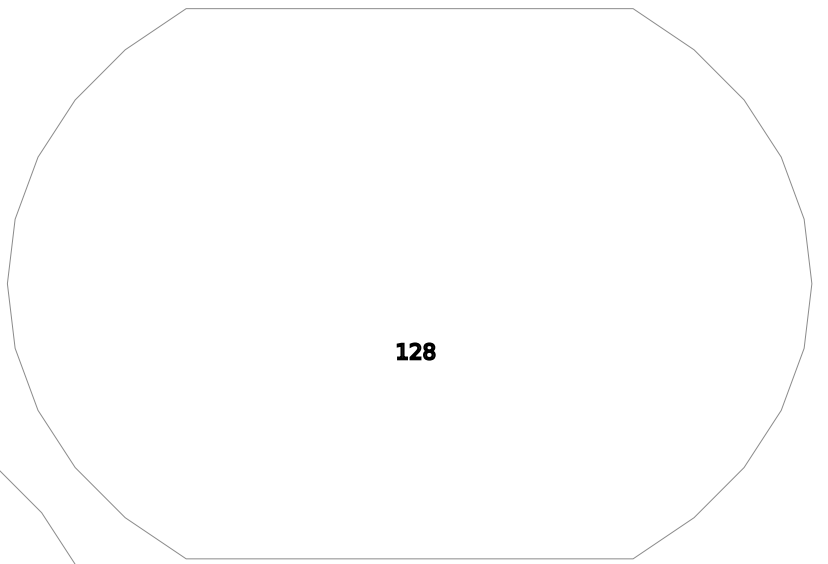


104

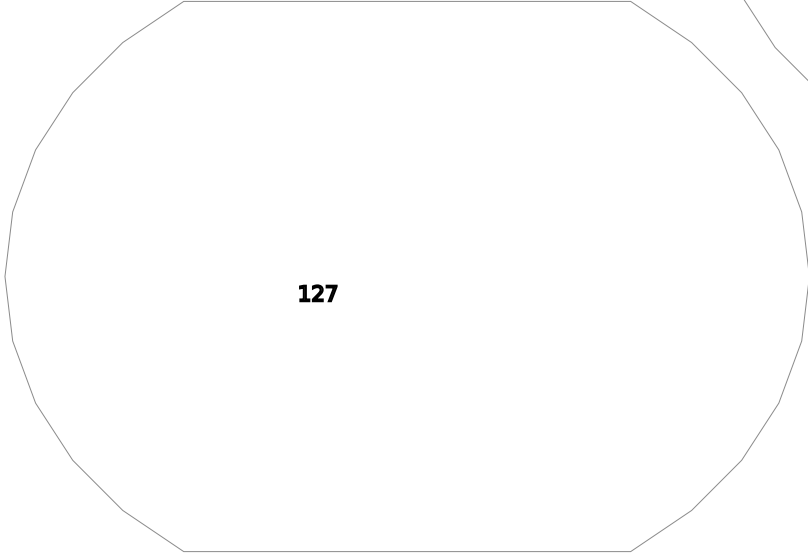


102

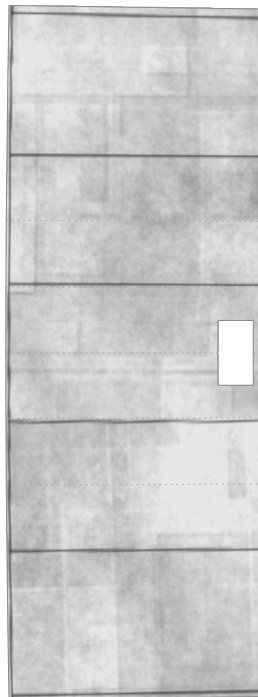




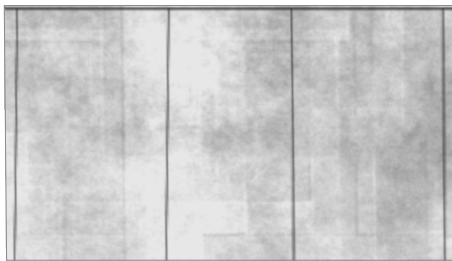
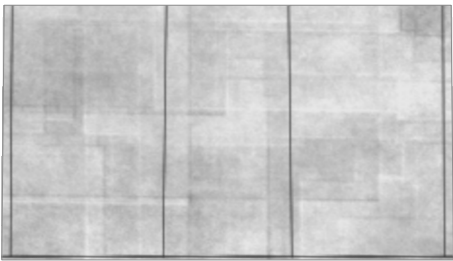
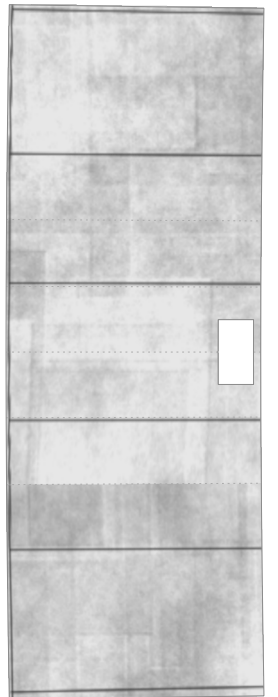
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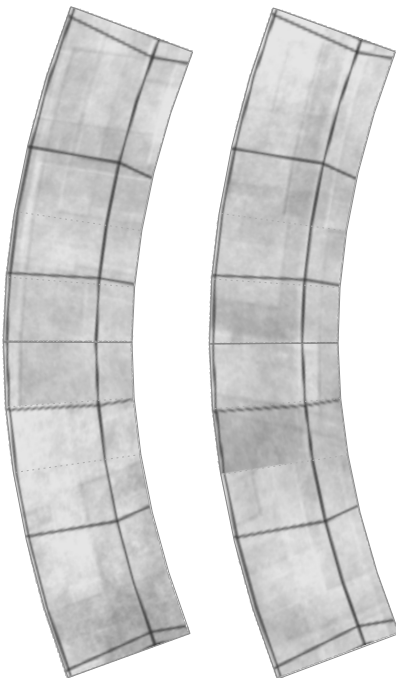
127



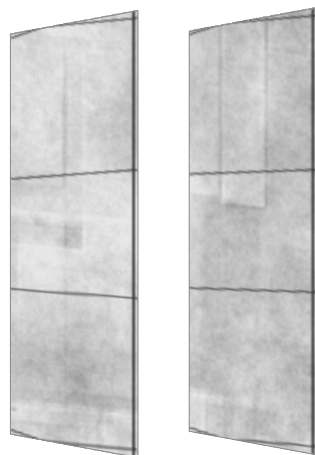
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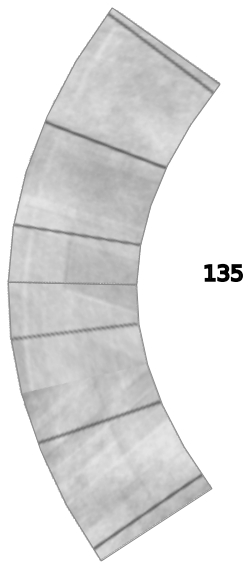
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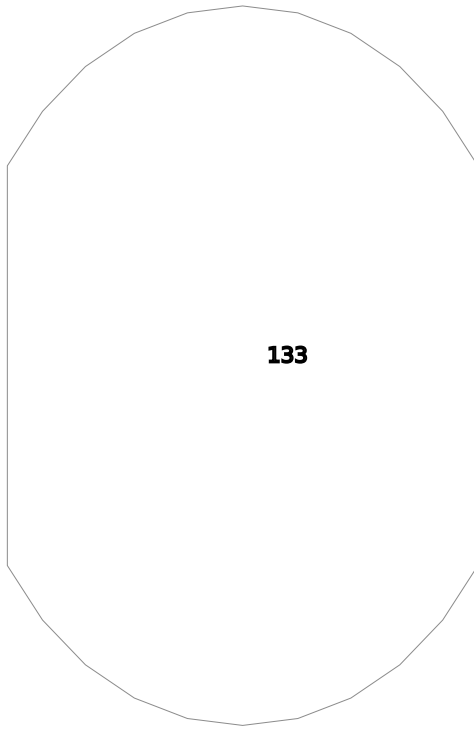
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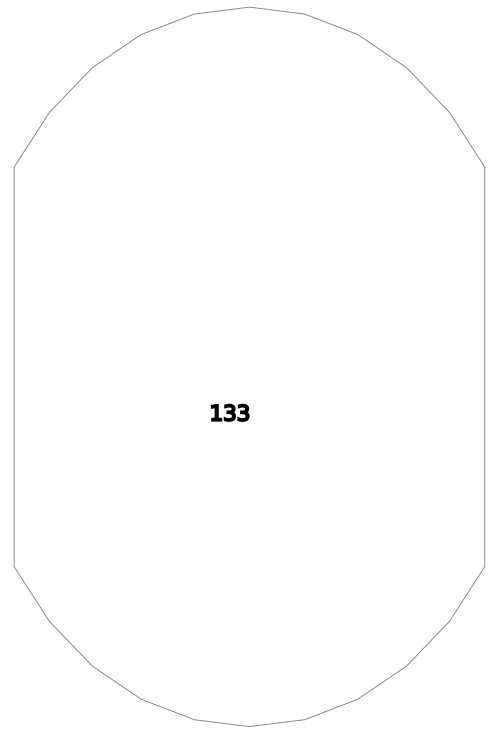
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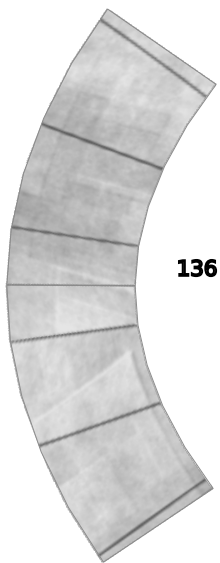
135



133



133



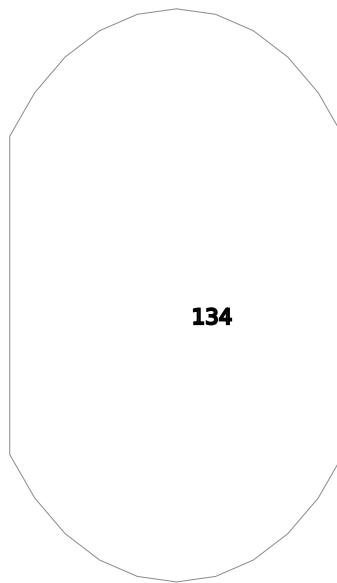
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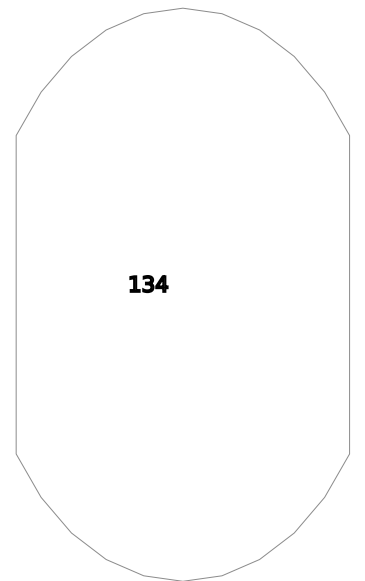
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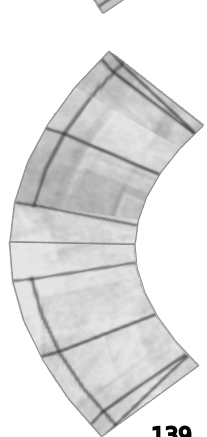
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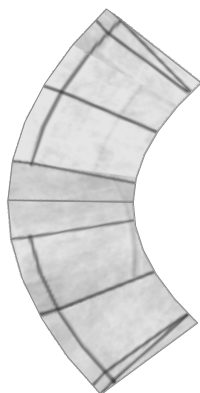
134



134



139



140



141



142

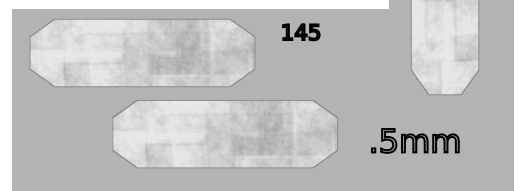


143

144



146



145

.5mm

