



Fired-On Images on Laguna Frost Porcelain
Now you can apply Fired-On Images Transfers to fully vitrified cone 5/6 Porcelain
No glaze necessary

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Platonic Solid constructed from Pentagons - The Dodecahedron

The ancient Greeks believed that all matter physical was created of the five platonic solids as well as having mystical properties represented by their connections to air, fire, earth, water and ether. Approximately 2500 years ago, the Pythagoreans studied three of these solids: The tetrahedron, the hexahedron (cube), and the dodecahedron. ¹

The ancient mathematical philosophers revered the dodecahedron for its geometric properties and symbolism. Like the pomegranate ready to burst forth its seeds, the dodecahedron represents the archetype of life and fecundity made visible. It's a three-dimensional pentagonal web on which life expressed its fullness. ²

¹ http://mathforum.org/mathimages/index.php/Platonic_Solid

² A Beginner's guide to Constructing the Universe- The Mathematical Archetypes of Nature Art, and Science- A voyage From 1 to 10 (pg. 107)

Supplies

Clay: Laguna's Frost Porcelain **WC-437**

Tools: Rolling pin or slab roller to make your slabs
Needle tool
Exacto knife or any slab cutting tool
Metal ruler
Optional bevel maker
Small brayer, rubber roller or pony roller
Rubber and or metal Ribs
Slip made from Frost Porcelain

Templates: Tarpaper or other stiff waterproof paper

Decals: Fired-On Images Multi-Surface Transfer Paper **TM-637**
ANY HP or Canon Laser printer or copier as long as it cannot print in color
Warm Water dish
Soft Paper Towels or Rubber Brayer (roller)
Natural sponge
Alcohol
Make-up remover pads

Imagery: To create a symmetrical image, I used Adobe Illustrator and Astute Graphic's plug-in Mirror Me.

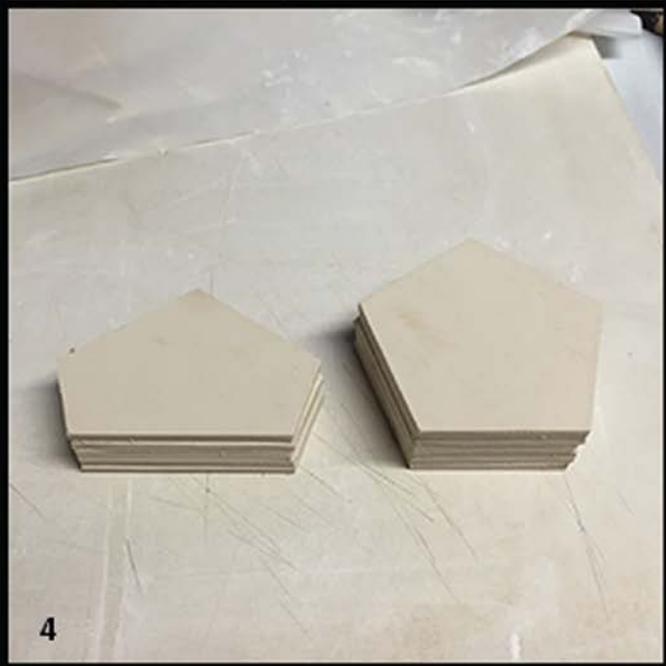
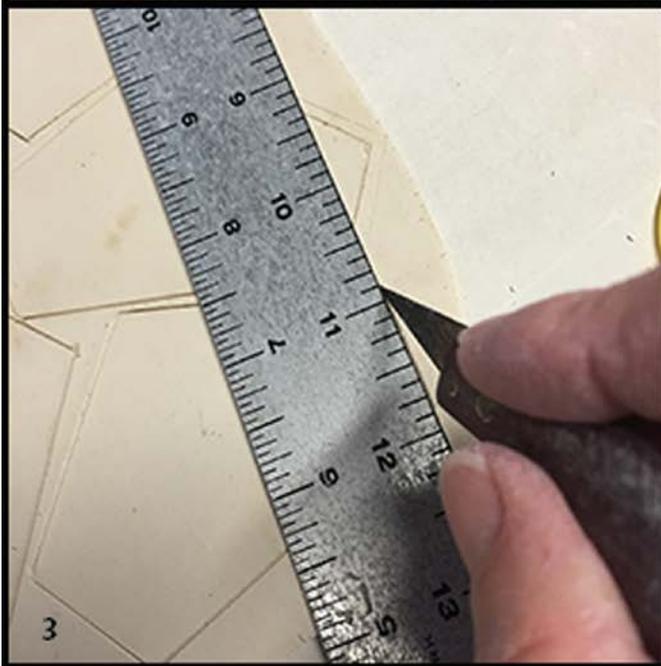
Hand-building Instructions:

Dodecahedron Template:

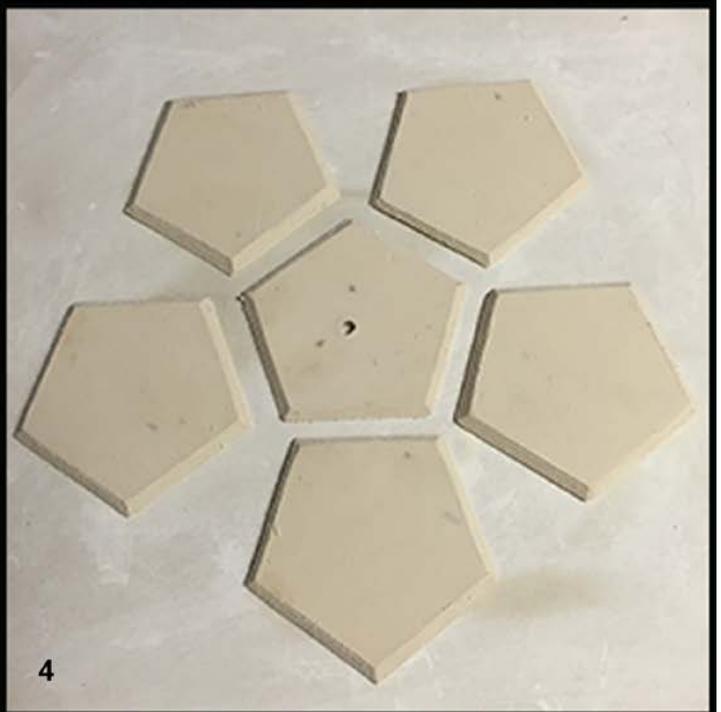
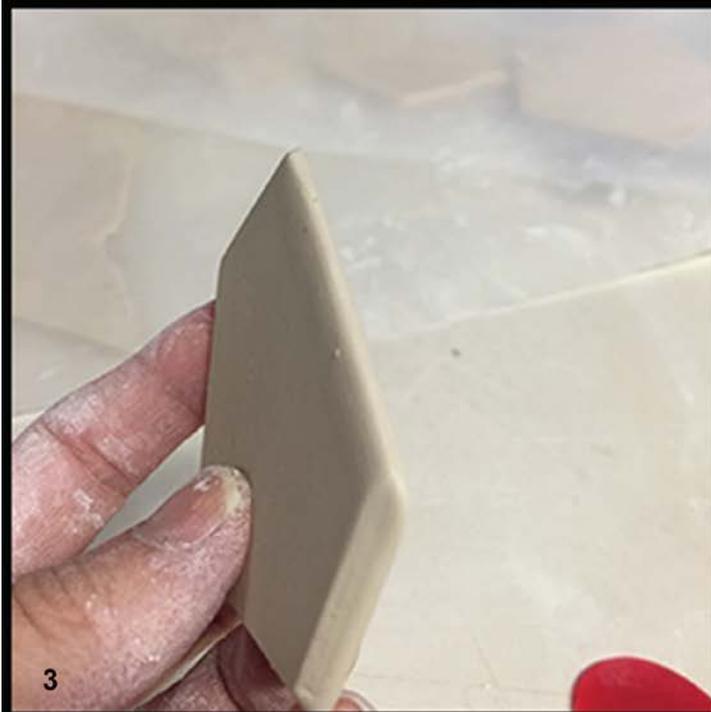
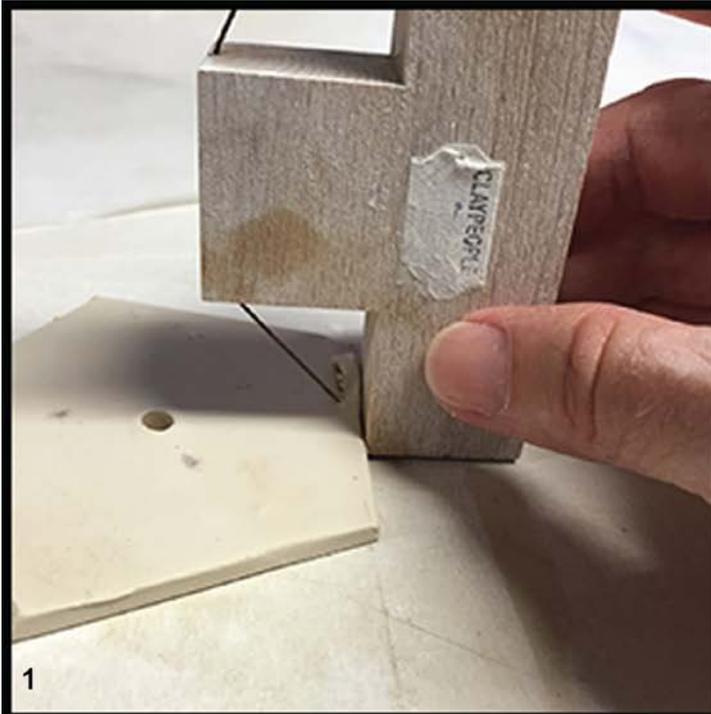
To draw a precise pentagon by hand see: <http://www.wikihow.com/Draw-a-Pentagon> , or you can use a program like Adobe Illustrator. Pick a size keeping in mind the shrinkage of the clay.

Cut out 11 pentagons all the same size. Put aside 6 of the pentagons. Cut 1/2 inch off from the bottoms of each of the remaining 5 pentagons.

Roll out slabs 3/16" thick. Let them set up on ware boards to stiffen. Place your templates down and draw outlines with the needle tool. Once the slabs are close to leather hard, cut shapes out. On the same side of each pentagon, use a damp sponge to soften the edges and then bevel and score all edges of the full 6 pentagons. Dampen, bevel and score only 4 edges on the modified pentagons. Compress and smooth out the remaining edge that is intended to be the vessel opening.

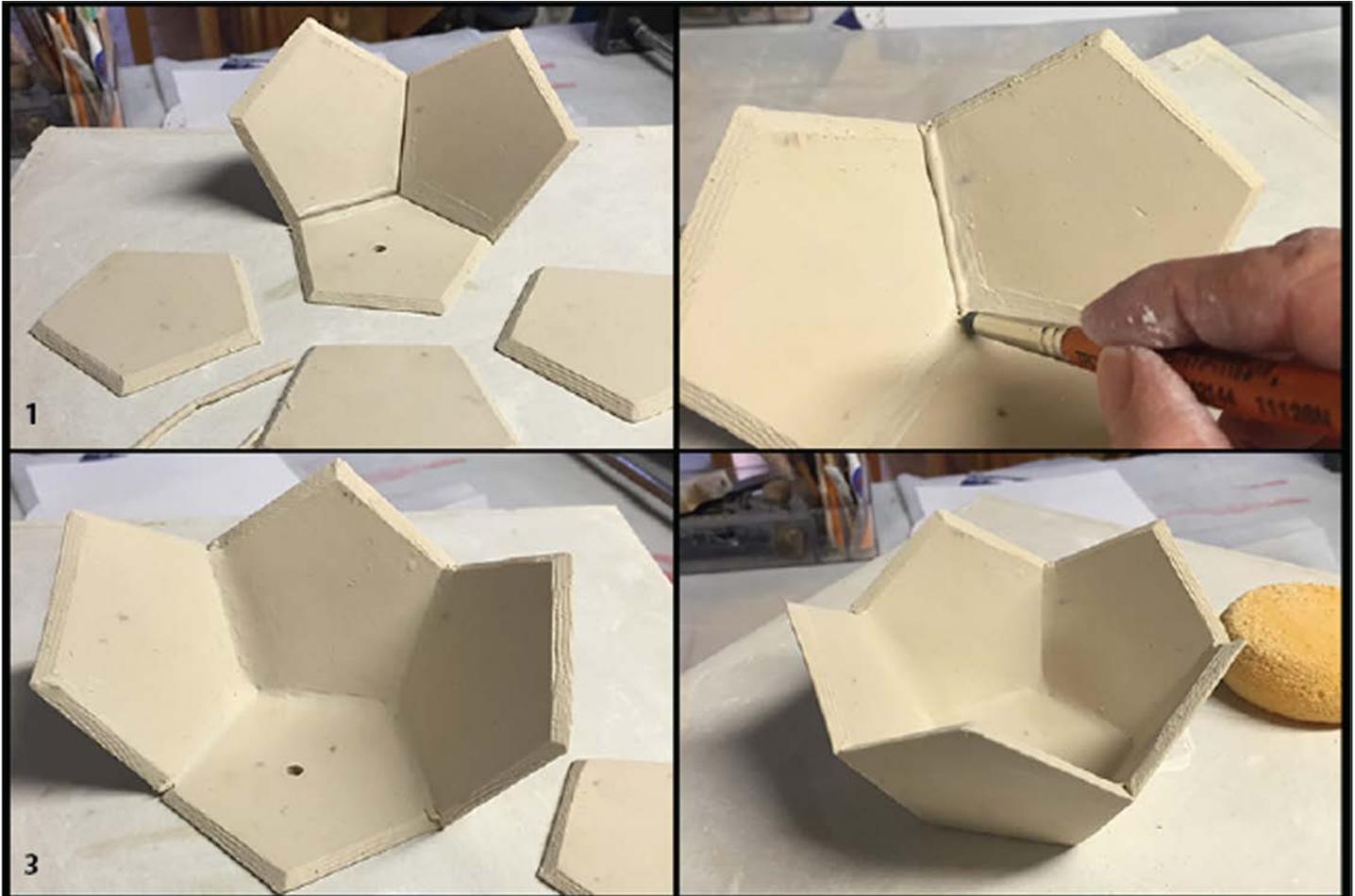


1. Tools: Bevel tool, tar paper templates, needle tool, knife, ruler, metal and rubber ribs, brush and slip.
2. Arrange paper template and draw around them with a needle tool.
3. Cut shapes using a straight edge and knife.
4. Total pieces: 6 full pentagons plus 5 half pentagons



1. Cut bevels on all 5 edges of the full pentagons. Bevel only 3 sides of the half pentagons, see fig 3.
2. Compress and shape top edge of the modified pentagons, this edge will be the vessel's opening.
3. Beveled sides, compressed top edge.
4. Layout leather hard pieces.

If I need to take a break and complete at another time, I will let my pieces rest in a damp box. When ready begin construction by choosing one pentagon as your base. Apply slip to edges and add a full pentagon one by one around the bottom piece. Once the sides are constructed add the top 5 sides.



1. Score all edges, brush slip on edges and match up beveled edges.
2. Make small coils to fill in seams. Compress and smooth inside seams. Use a rubber rib to compress outside edges.
3. Work your way around the bottom pentagon checking your alignment.
4. Once bottom is complete, begin adding top pieces.

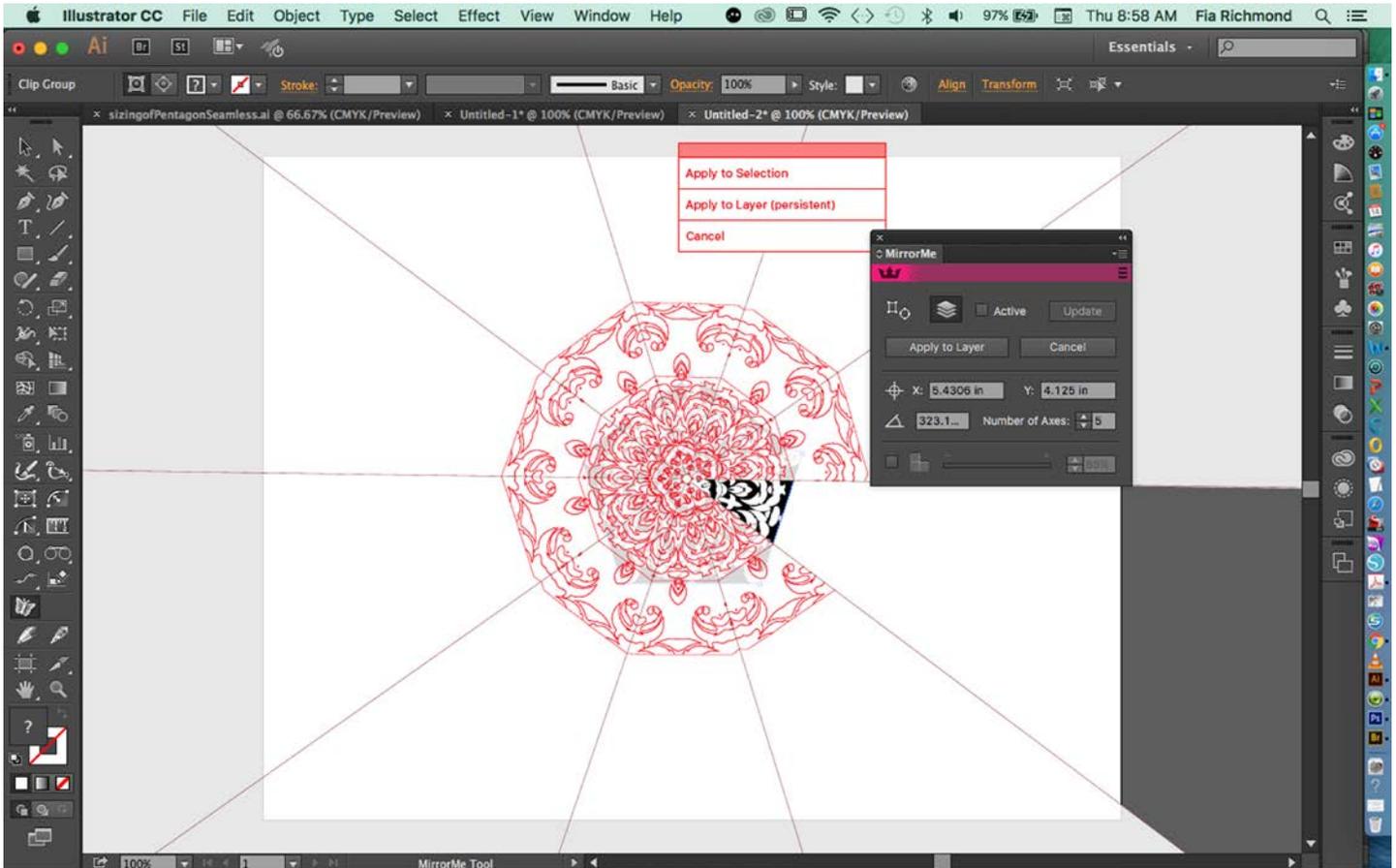
When bone dry bisque to cone 04.

After bisque fire lightly sand then fire to cone 6

Image:

Measure one of the pentagons from the final fired vessel. Size your pentagon artwork to the finished size of the fired pentagon.

If you want your image to be symmetrical and to match up on the intersecting planes you can use Adobe Illustrator and the Astute Graphics plug-in mirror me set to 5 axes.



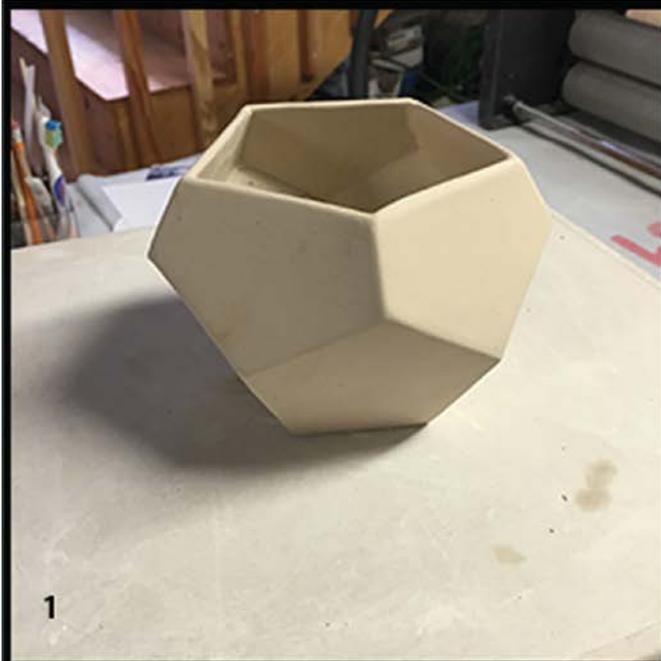
Print 6 pentagons and the 5 modified pentagons onto Fired-On Images Transfer Paper as directed using a recommended printer or copier.

Cut out each pentagon

Application of Decal:

Prepare surface by cleaning with makeup remover pad and alcohol. Soak one pentagon at a time. Using a natural sponge wet the surface of the vessel. This will help you move the decal into place. Place you decal and slide out the backing. Using a soft paper towel or rubber brayer wipe/ push water from the center out to the sides and remove any air bubbles. If you image crosses slightly over to another pentagon's plane don't worry. Put the next decal on and when they dry, using a sharp Exacto blade and a straight edge cut down the middle on the edge where they intersect and remove the excess decal. Pat down with a damp sponge, let dry overnight. *You can add a decal design onto the bottom side (no glaze) and place directly on kiln shelf to fire.

Fire to cone 04.



1. Leather hard stage. Let dry to bone dry stage, bisque @ cone 04, then fire to cone 5/6 to fully vitrify (no glaze necessary) .
- 2-3. Apply Fired-On Images decals to all sides as per instructions, let dry overnight, fire decals @cone 04.
4. Finished vessel.

www.fired-on.com