

Supplies, Tools & Coldworking Methods

Glass and Quantities Needed per Project (choose at least one of the following)

SEGMENTED STACK

- (2), 27.9 × 27.9 cm (11" × 11") and (3), 22.9 × 22.9 cm (9" × 9") pieces of 3mm Clear ([001101-0030](#)), or 3mm Tekta ([001100-0380](#))
- (1), 22.9 × 22.9 cm (9" × 9") 3mm Opaline ([000403-0030](#))
- (3), 22.9 × 22.9 cm (9" × 9") pieces of 3mm glass in any color glass.
Nathan used:
Dark Amber ([001138-0030](#))
Light Violet ([001428-0030](#))
Light Bronze ([001409-0030](#))

FRITTED STACK

- (2), 27.9 × 27.9 cm (11" × 11") and (3), 22.9 × 22.9 cm (9" × 9") pieces of 3 mm Clear ([001101-0030](#)), or 3 mm Tekta ([001100-0380](#))
- (1), 22.9 × 22.9 cm (9" × 9") 3 mm Opaline ([000403-0030](#))
- (3) colors of -0003 Coarse Frit 36 g or (≈ 1.3 oz) of each.
Nathan used:
Light Bronze Frit ([001409-0003](#))
Clear Frit ([001101-0003](#))
Light Violet Frit ([001428-0003](#))
Dark Amber Frit ([001138-0003](#))

SEAMLESS STACK

- (2), 27.9 × 27.9 cm (11" × 11") and (3), 22.9 × 22.9 cm (9" × 9") pieces of 3mm Clear ([001101-0030](#)), or 3mm Tekta ([001100-0380](#))
- (1), 22.9 × 22.9 cm (9" × 9") 3 mm Opaline ([000403-0030](#))
- (2), 22.9 × 22.9 cm (9" × 9") pieces of 3 mm glass in any color glass.
Nathan used:
Dark Amber ([001138-0030](#))
Light Violet ([001428-0030](#))

Supplies & Tools

Toyo, all metal glasscutter
([Ed Hoy, Delphi](#))

Silberschnitt Brass Cutter ([007135](#))

Bohle Silberschnitt Studio Circle Cutter
([007161](#))

Fanout, grozing pliers
([Ed Hoy, Delphi](#))

Dropout Paste-DÖP ([OnGrade Studio](#))

Running Pliers ([007008](#))

'Lil Chunks ([OnGrade Studio](#))

1.5 mm ($\frac{1}{16}$ ") ceramic fiber paper
([007037](#))

Fine point tweezers

Mold Options

- *The Seventy*, Flatop Dropout Ring ([OnGrade Studio](#))
- Creative Ceramics Dropout Molds ([Bullseye](#))

Coldworking Methods for Success with Dropout Vessels

TO REMOVE RIMS

Used in Video: Tabletop Modular Saw/Grinder ([Water Jet Design](#)), 17.8 cm (7") diamond saw blade. This tool makes it very easy to maintain alignment for a straight cut and ergonomically good for the body.

Alternative Method: Standard Tile/Wet Saw ([MK-101](#)) and Diarex Pro Series 25.4 cm (10") continuous rim diamond saw blade. ([Gran Quartz](#))

Note: This is a more physically involved freehand approach, so keep mindful of good body posture!

TO FINISH RIMS

Used in Video: A lap wheel/flat lap grinder with a grinding head larger than the diameter of your vessel.

Alternative Method 1 (for round rims): Tabletop Modular Saw/Grinder, suggested above. *See it in action anytime on my [OnGrade Studio Facebook Page](#).*

Alternative Method 2: Handlapping setup with 80 ([007241](#)), 120 ([007248](#)), 220 ([007242](#)), 400 ([007243](#)) Silicon Carbide Grits and 6 mm ($\frac{1}{4}$ ") float glass. See the video, [Coldworking with Loose Grit](#).

TO TREAT SURFACES AFTER THE FIRST TWO FIRINGS

Used in Video: A sandblaster with 180–220 Aluminum Oxide grit.

For students near one of Bullseye's Resource Centers check our in-person coldworking orientations for the lap wheel, drop-out saw, sandblaster and more.

Alternative Method: Handlapping set up as in *Alternative Method 2* under "TO FINISH RIMS."