

# Landscape

*Design, Fabrication, and Text by Mark Waterbury*



Nature lovers the world over seldom experience anything more exhilarating than the sight of a brilliant sun rising above a majestic mountain setting. With this project, you can have one on hand for the viewing anytime you like. Or change the selections in your color palette if you're one of those people who prefer a spectacular sunset, and it's yours for the taking. Either way, this panel can carry you back to the last time you witnessed the breathtaking beauty of creation's splendor.

## Step 1

Make 2 copies of the pattern. Number the pieces and mark the desired grain direction on the copies. Using pattern shears designed for copper foil, cut apart one copy to use as a pattern for cutting the glass pieces. Use the other copy as a layout pattern for constructing your project.

For the most part, I would recommend running the grain direction on the foreground and background landscape pieces horizontally. With the sky pieces, though, there are more options, since the grain direction can radiate out from the sun. Glass choice is the key to this decision. A solid color for the sky would make grain direction less crucial. Experiment and have fun picking colors for this project.

## Armstrong Glass Company

#3300SO, Dark Green Opal/Clear/Wispy for Foreground, 1-1/2 Sq. Ft.

#123S, Opal/Amber/Green/Streaky for Background, 1 Sq. Ft.

#778SO, Yellow/Orange/Streaky for Sun, Scrap

#1241S, Opal/Amber/Light Blue/Wispy for Sky, 1 Sq. Ft.

#1800S, Opal/Clear/Streaky for Clouds, 1 Sq. Ft.

## Other Materials Required

Flux Solder 7/32" Copper Foil

1/8" Zinc U-Channel

12" McNeil Round Oak Frame

## Step 2

Cut the glass according to the pattern by holding the glass cutter upright between the first and middle fingers, with the first finger in front of the cutter and the thumb positioned behind the cutter. Hold the paper pattern in place with your hand. Score around the pattern pieces and score relief cuts where necessary. For larger pattern pieces, you can use a glue stick or double-sided tape to hold the pattern pieces in place while you are scoring the glass.

Running pliers can be used on the straight lines to break the scores. Then use grozier pliers up to the score line to remove any excess glass. A glass grinder will help you to smooth any rough edges on the glass and to shape the glass pieces to match the pattern. I can't stress enough the importance of always wearing safety glasses anytime you are grinding the glass.

**Step 3**

Wrap the glass with copper foil. Depending on personal preference, you can use 3/16", 7/32", or 1/4" copper foil for this project. We used 7/32" foil.

Dry the glass thoroughly before foiling. Position the glass in the center of the foil, wrapping the entire piece and overlapping where the ends meet about 1/8".

**Step 4**

Burnish the copper foil. This smooths the edges of the foil. Hold the pieces in place on your layout pattern with pushpins.

**Step 5**

Using a flux brush, apply flux to the copper foil lines. Flux comes in paste and liquid forms. The flux etches the copper foil so that it will accept the solder.

**Step 6**

Run a smooth, finished bead along all of the copper foil lines. Slowly pull your iron along the lines while feeding the solder into the iron. Adjust the amount of solder according to the finished bead of solder.

Solder all of the lines, front and back, except for the outer edge and 1/4" in from the outer edge. This will allow the zinc U-channel to slip over the outer edge.

**Step 7**

For the outer edge, any size lead U-channel or 1/8" zinc U-channel could be used. Remember that 1/4" or larger zinc does not have the flexibility to go around a 12" round project. Hold the zinc in place with horseshoe nails

**Step 8**

Solder the zinc in place where the design lines run out to the edge. Solder the zinc, front and back.

If the project will not have a wooden frame, hangers can be made from copper wire by soldering the wire to a design line. Then loop the wire over to the back side of the panel and solder the other end of the wire to the same line on the opposite side.

Clean the project thoroughly with flux remover and glass cleaner. Apply black patina to darken the solder lines. A little bit of water on your panel when applying the patina will prevent the patina from staining your glass.

Clean the project again immediately after applying the patina and apply a glass wax. This will help to keep the finished piece from oxidizing.

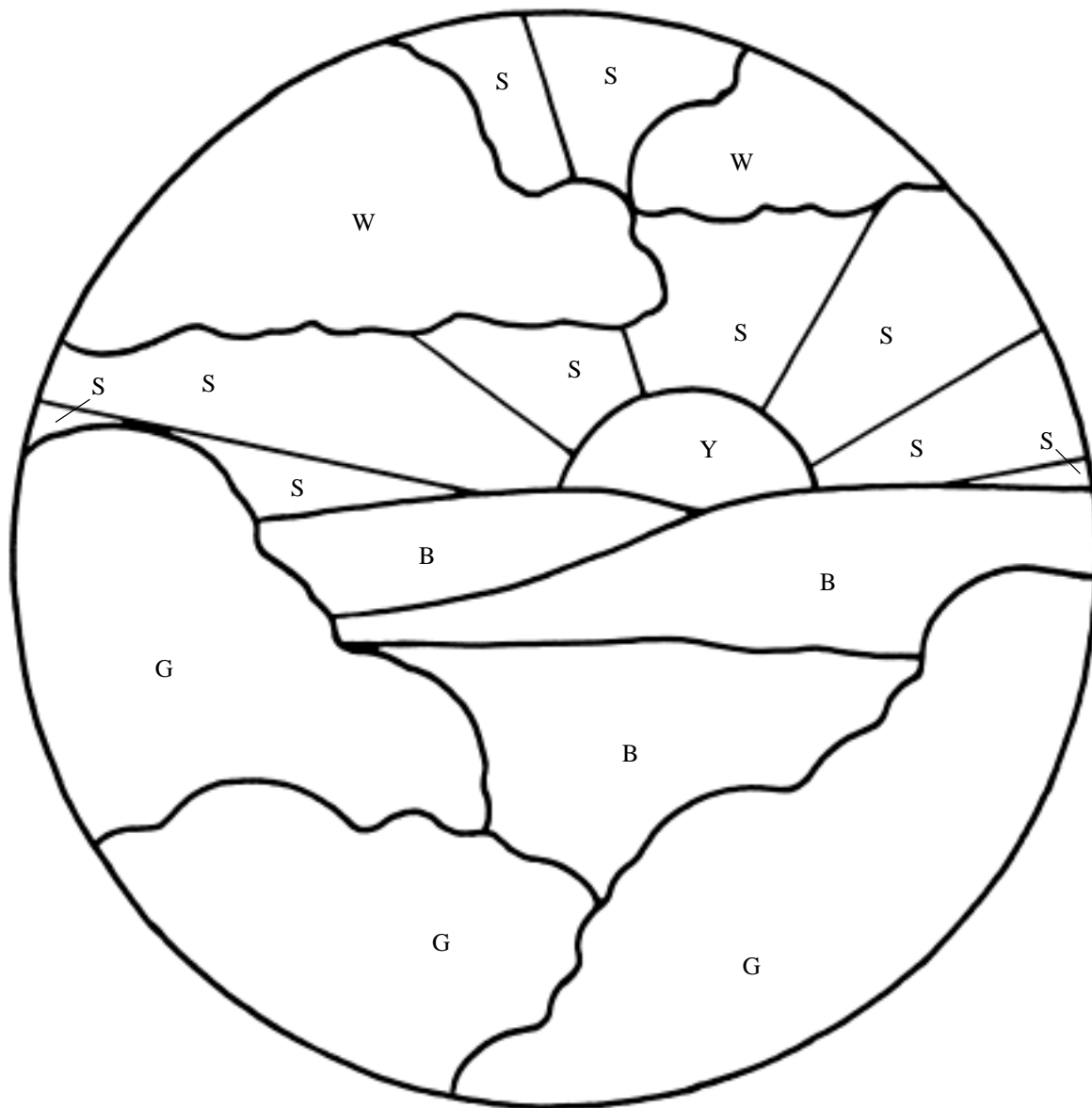
Install the project in the wooden frame. Then sit back, relax, and enjoy your beautiful landscape or share it with a special friend.

GPO



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G - Dark Green Opal/Clear/Wispy for Foreground, 1-1/2 Sq. Ft.

B - Opal/Amber/Green/Streaky for Background, 1 Sq. Ft.

Y - Yellow/Orange/Streaky for Sun, Scrap

S - Opal/Amber/Light Blue/Wispy for Sky, 1 Sq. Ft.

W - Opal/Clear/Streaky for Clouds, 1 Sq. Ft.

Compliments of:

**GLASS PATTERNS**

—• Q U A R T E R L Y •—

[www.GlassPatterns.com](http://www.GlassPatterns.com)

Enlarge Pattern 50% to fit McNeils 12"Round Frame