




Glass Project Notes

<p>Project Mom & Dad's Bathroom Transom Window</p> <p>Fabrication Info Final dimensions</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Length</th> <th style="width: 33%;">Width</th> <th style="width: 33%;">Thickness</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">36in</td> <td style="text-align: center;">10in</td> <td style="text-align: center;">10mm</td> </tr> </tbody> </table> <p>Glass used (primary layers- (1) 3mm (1) 6mm clear)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 5%; text-align: center;">1 (top)</td> <td>Decoration-- side 1 of BE clear 3mm)/1.8 mm BE and frit</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Decoration--Side 2 of BE 1101 (clear) 3mm (frit/stringer)</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Decoration of side 1 of Tekta/1.8 mm BE and frit</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Side 2 of Tekta 6mm—with decoration (frit/stringer)</td> </tr> </tbody> </table> <p>Glass used (additional decoration) Leaves—Jade Green, Aventurine Green, Emerald Green, Spring Green, Light Green, Kelly Green, plus Aventurine, Light Green, and Spring Green pulled and spiraled stringer Petals—Sky Blue, Violet Striker, Aquamarine Blue, Turquoise Blue, Deep Royal Blue, (some iridized), plus a few dichroic chunks and cuts. Filled in with Turquoise Blue, Sky Blue, and Cobalt Blue medium or fine frit. Background—Graduated medium and coarse frit in Medium Amber, Light Amber, Pale Yellow, Coral Orange, Clear</p> <p>Special Techniques Full fuse done in two steps (Firing 1 on left). Fusing layers 3 and 4 (Tekta and decoration). Slightly grinding to flatten and reduce bubbling, replacing in kiln and adding layers 3mm topsheet to full flat fuse with longer anneal.</p>	Length	Width	Thickness	36in	10in	10mm	1 (top)	Decoration-- side 1 of BE clear 3mm)/1.8 mm BE and frit	2	Decoration--Side 2 of BE 1101 (clear) 3mm (frit/stringer)	3	Decoration of side 1 of Tekta/1.8 mm BE and frit	4	Side 2 of Tekta 6mm—with decoration (frit/stringer)	<p>Date Started 7/14/05 Completed 7/29/05</p> <p>Firing Schedules</p> <p>Firings 1-3 Type: All layers full fuse (each)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Seg</th> <th style="width: 15%;">Rate (°/hr)</th> <th style="width: 15%;">To Temp (°F)</th> <th style="width: 15%;">Hold (m)</th> <th style="width: 55%;">Notes</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td style="text-align: center;">200</td><td style="text-align: center;">1000</td><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">200</td><td style="text-align: center;">1250</td><td style="text-align: center;">30</td><td style="text-align: center;">Bubble</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">140</td><td style="text-align: center;">1480</td><td style="text-align: center;">40</td><td></td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">9999</td><td style="text-align: center;">1000</td><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">200</td><td style="text-align: center;">1150</td><td style="text-align: center;">30</td><td></td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">9999</td><td style="text-align: center;">1000</td><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">7</td><td style="text-align: center;">120</td><td style="text-align: center;">960</td><td style="text-align: center;">90</td><td></td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">240</td><td style="text-align: center;">75</td><td style="text-align: center;">---</td><td></td></tr> </tbody> </table> <p>Firing 4 Type: All layers stacked & fused</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Seg</th> <th style="width: 15%;">Rate (°/hr)</th> <th style="width: 15%;">To Temp (°F)</th> <th style="width: 15%;">Hold (m)</th> <th style="width: 55%;">Notes</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td style="text-align: center;">200</td><td style="text-align: center;">1000</td><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">200</td><td style="text-align: center;">1250</td><td style="text-align: center;">30</td><td style="text-align: center;">Bubble</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">140</td><td style="text-align: center;">1480</td><td style="text-align: center;">40</td><td></td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">9999</td><td style="text-align: center;">1000</td><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">200</td><td style="text-align: center;">1150</td><td style="text-align: center;">30</td><td></td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">9999</td><td style="text-align: center;">1000</td><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">7</td><td style="text-align: center;">120</td><td style="text-align: center;">960</td><td style="text-align: center;">90</td><td></td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">240</td><td style="text-align: center;">75</td><td style="text-align: center;">---</td><td></td></tr> </tbody> </table> <p>Special firing notes Per Richard LaLonde, ramping slightly up prior to annealing to allow glass to “relax” and potentially prevent bowing that could fracture the glass across the center.</p>	Seg	Rate (°/hr)	To Temp (°F)	Hold (m)	Notes	1	200	1000	10		2	200	1250	30	Bubble	3	140	1480	40		4	9999	1000	10		5	200	1150	30		6	9999	1000	10		7	120	960	90		8	240	75	---		Seg	Rate (°/hr)	To Temp (°F)	Hold (m)	Notes	1	200	1000	10		2	200	1250	30	Bubble	3	140	1480	40		4	9999	1000	10		5	200	1150	30		6	9999	1000	10		7	120	960	90		8	240	75	---	
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<p>Conceptual Sketch</p> <div style="text-align: center;">  </div> <p>Takes inspiration from the agapanthus we all liked in Fresno. On cold, grey days they should be able to look up as if they were very small and in a sunny garden, with the flowers overhead. Will tint the clear background glass to warm it up slightly.</p>	<p>Final Photo</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div>																																																																																																								

Coldwork Info

Used Alpha grinder to smooth edges from dam overflow.

Discovered after trying to put it in window that it's still too big—opening is not even. Took it to John Groth and had it waterjet cut to size.

Issues and Additional Information

Hitting limits of kiln size. Dams were up against the edges of the kiln at both ends. 36x10 is the absolute limit for fusing long pieces in this kiln.

Some overflow issues—need to ensure that dams hold firm. Glass pushed aside dams at three points and caused some flow. Did not overflow shelf and was easily trimmed with Alpha.

Not much on polariscope—appears just about stress-free

What I'd do differently—

Violet striker is darker than I thought it would be and probably is too prominent in the final florals. Would also dam the edges a bit better. Lay-up allowed glass to run under the fibre board slightly, requiring additional grinding.

Lay-up Sketches and Notes

Glass layup on all four sides (two sheets, decorated both sides of each) to produce some depth in the piece. Working from initial sketch on paper, left registered drop outs for components on other layers to keep them visible (see below). "Tendrils" and smaller leaves (distance) on layer 4 (Tekta bottom), larger leaves and distant flower blobs on layer 3, main flowers start on layer 3 (back petals), come through layer 2 and some petals are on layer 1. Coral orange and amber coarse frit (to warm up the light in the window) on layers 1 and 2.

