

Draping

Below are instructions for firing 12" dia. or less and 3/8" 96 COE glass. Please prepare to adjust the firing program as needed for your specific kiln, size of project, and type of glass. Add 20° to all 'top' temperatures for 90 COE glass.

These schedules focus on a slow ramp up and ramp down. The life of the mold is prolonged by gradual changes in temperature. This guide will also protect your glass from bubbles and devitrification. Please refrain from opening your kiln until the temperature is below 100 F.

ull Fusing In Casting	With using heat and time, merging two or more layers of glass in any size or shape to form one so smooth piece.								
	Segment	1	2	3	4	5	6		
	Rate (F/HR)	300	200	400	9999*	150	300		
	Temp (°F)	1150	1370	1450-1480	950	800	100		
	Hold Time (Hr.Min)	00.30	00.20	00.20	00.60	00.10	00.00		
Contour Fusing	Using a lower temperature than a Full Fuse; to conjoin layers of glass enough so that the individu characteristics of the glass pieces remain and are smooth at the edges.								
	Segment	1	2	3	4	5			
	Rate (F/HR)	400	400	850	9999	* 40	00		
	Temp (°F)	1000	1150	1375-14	00 950	10	00		
	Hold Time (Hr.Min)	00.20	00.15	00.15	00.60	00	0.00		
Tack Fusing	Using a lower temperature than a Contour Fuse; to conjoin layers of glass enough so that the individual characteristics of the glass piece remain.								
ŭ	Segment	1	2	3	4	5			
	Rate (F/HR)	300	200	9999*	150	30	00		
	Temp (°F)	1150	1325-137	0 950	800	10	00		
	Hold Time (Hr.Min)	00.30	00.20	00.60	00.10	00	0.00		
Slumping	Heating glass and shaping it into or over a mold.								
	Segment	1	2	3	4	5	6		
	Rate (F/HR)	150	300	150	400	150	300		

		segment	1	2	3	4	3	0
	Rate (F/HR)	150	300	150	400	150	300	
/ \		Temp (°F)	300	1100	1225-1250	950	800	100
_		Hold Time (Hr.Min)	00.15	00.30	00.15	00.60	00.10	00.00

nealing glass into a deep of deathea mola - requiring a little mole fleat and hold little.								
Segment	1	2	3	4	5	6		
Rate (F/HR)	150	300	150	400	150	300		
Temp (°F)	300	1150	1340	950	800	100		
Hold Time (Hr.Min)	00.15	00.30	00.40	00.60	00.10	00.00		
	Segment Rate (F/HR) Temp (°F)	Segment 1 Rate (F/HR) 150 Temp (°F) 300	Segment 1 2 Rate (F/HR) 150 300 Temp (°F) 300 1150	Segment 1 2 3 Rate (F/HR) 150 300 150 Temp (°F) 300 1150 1340	Segment 1 2 3 4 Rate (F/HR) 150 300 150 400 Temp (°F) 300 1150 1340 950	Segment 1 2 3 4 5 Rate (F/HR) 150 300 150 400 150 Temp (°F) 300 1150 1340 950 800	Rate (F/HR) 150 300 150 400 150 300 Temp (°F) 300 1150 1340 950 800 100	

raping	gravity, and time. In most cases the mold is stainless steel because of its coefficient of expansion with glass.									
	Segment	1	2	3	4	5	6			
	Rate (F/HR)	150	300	150	400	150	300			
	Temp (°F)	300	1100	1200	950	800	100			
[] "	Hold Time (Hr.Min)	00.15	00.20	00.15	00.60	00.10	00.00			

Conforming glass to a shape by bending it over the backside of a mold with heat,

Fire Polishing	Heating glass to the	point who	ere the ed	ges are ro	ound and	the glas	s has a sh	niny appe	arance.
	Segment	1	2		3		4		
	Rate (F/HR)	300	99	99*	9999*		400		
	Temp (°F)	1150	13	00	950		100		
	Hold Time (Hr.Min)	00.40	00	.10	00.90		00.00		
Pot Melt	Glass is placed into the molted glass rur								
	Segment	1	2		3	4		5	
	Rate (F/HR)	300	400		9999*	99	99*	200	
	Temp (°F)	1000	170	0	1500	96	0	100	
	Hold Time (Hr.Min)	00.20	00.6	30	00.45	00	.60	00.00	
Bubble Squeeze	Used to help eliminallowing the air to e		bles from	forming	these p	oieces v	vill take	longer to	o heat up
	Segment	1	2	3	4	5	6	7	8
	Rate (F/HR)	300	300	150	600	9999*	90	120	300
(°°°)	Temp (°F)	1000	1150	1250	1450-1480	1000	960	750	100
: 1	Hold Time (Hr.Min)	00.25	00.15	00.25	00.20	00.60	00.60	00.10	00.00
Wine Bottle Slumping	Melting a recycled	bottle a	t high tem	nperature	e to form	a flatte	ened sur	face.	
	Segment	1	2	3	4	5			
	Rate (F/HR)	500	250	9999*	999	9* 18	80		
	Temp (°F)	1100	1300	1475	100	0 8	00		
	Hold Time (Hr.Min)	00.10	00.30	00.10	00.6	0 0	0.60		
Crackle Technique	Frit is added to fiber The frit and fiber pa							chnique d	once fired.
	Segment	1	2	3		4	5		
	Rate (F/HR)	250	150	2	50	9999*	150)	
	Temp (°F)	1100	1255	13	355	950	700)	
(~ 3 5 5	Hold Time (Hr Min)	00 10	00.30) 00	0.05	00 60	00	00	

Slumpy's Ceramic Mold Care Instructions

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 Upon receipt of your mold, check for any possible damages that may have occurred during shipping. If your mold is damaged during shipping, notify Slumpy's within 5 days of delivery.

Hold Time (Hr.Min)

00.10

- Clean your mold if debris is present or it will adhere to the glass during fusing or slumping.
- Primer should be applied to the mold before slumping glass into the form. Slumpy's carries a variety of mold primers. Be sure to carefully follow all manufacturer's instructions for applying, drying and curing the primer prior to slumping or fusing.
- Before firing, make sure base of mold is not in contact with residual glass on kiln shelf. If the base contacts glass during firing, the mold may fuse to the shelf and damage the mold and/or shelf. Also check for an uneven shelf surface. Uneven distribution may

cause tension within the mold and may weaken or cause the mold to break while in storage or during firing.

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00.60

- •Avoid thermal shock caused by subjecting mold to drastic changes in temperature over short periods of time. Avoid raising temperature of molds from ambient conditions to hot kiln environment too quickly. Slumpy's recommends not opening the kiln prior to 100°F (37°C).
- Store molds with care to prevent damage. Store in a dry place. Avoid stacking molds. Possible damage to mold and/or degradation to primer layers may occur. If stacking molds is necessary, take care to prevent possible damages by use of a barrier between molds. Allow mold to cool before storing.
- Clay slumping mold can fire up to 2000°F (1100°C).