Indications: Up to 14-unit bridges can be pressed.



For porcelain margins, utilize a deep chamfer or shoulder preparation

ANTERIOR BRIDGES



POSTERIOR CROWNS Minimum 1.5 mm occlusal reduction from the deepest occlusal pit 1.5 mm proximal reduction 360° shoulder or chamfer



Minimum Thickness (in mm) for Obsidian Pressed to Metal Restorations					
Crowns and Bridges					
	Anterior	Posterior	Connector		
Framework (Alloy)*	0.3	0.3	9 mm ²		
Opaque	0.2	0.2	0.2		
Obsidian Pressed to Metal	0.8	0.8	0.8		

*Bridge abutments must be greater than or equal to 0.5 mm.

FRAMEWORK COMPOSITION

Alloy Recommendations	Alloy Framework Compositions to Avoid
 Argeloy NP Supreme Argelite 71 Argedent Euro Non-precious Semi-precious White high noble 	 Alloys with a silver (Ag) content higher than 10% Alloys that contain any: Titanium (Ti) Copper (Cu) Zirconia (Zr) Beryllium (Be)

*All recommended frameworks are nickel free.

CEMENTATION

Dental professionals should use conventional cement, adhesive resin cements or self-adhesive resin cements for luting Obsidian restorations. The inside of the pressed to metal restoration may need to be sandblasted prior to seating in order to prepare the bonding surface for cementation. Anterior and posterior crowns can be cemented with conventional cement, adhesive resin cements or self-adhesive resin cements.

DESIGN PARAMETERS FOR 3SHAPE

Cement Gap:	0.030	mm
Extra Cement Gap:	0.090	mm
Distance to Margin Line:	1.000	mm
Smooth Distance:	0.500	mm
Drill Radius:	0.520	mm
Drill Compensation:	0.100	mm
Offset Angle:	80	degrees
Margin Line Offset:	0.450	mm
Extension Offset:	0.080	mm



Aluminum Oxide Used to Clean Inside Restoration



Removing Oxide Layer and Other Residue

PREPARATION GUIDELINES FOR ALL-CERAMIC RESTORATIONS

Indications: Single-unit crowns, inlays, onlays and veneers.



Minimum Thickness (in mm) for Obsidian Monolithic All-Ceramic Restorations							
	Inlov	Onlow	Vanoor	Portial Grown		Crowns	
	iniay	Uniay	veneer	Partial Grown	Anterior	Premolar	Molar
Circular	1.0*	1.0	0.6	1.5	1.2	1.5	1.5
Incisal/Occlusal	1.0*	1.0	0.6	1.5	1.5	1.5	1.5

*isthmus width

DESIGN PARAMETERS FOR 3SHAPE

0.030 mm	Drill Compensation:	0.100 mm
0.070 mm	Offset Angle:	65 degrees
1.000 mm	Margin Line Offset:	0.150 mm
0.500 mm	Extension Offset:	0.070 mm
0.520 mm		
	0.030 mm 0.070 mm 1.000 mm 0.500 mm 0.520 mm	0.030 mmDrill Compensation:0.070 mmOffset Angle:1.000 mmMargin Line Offset:0.500 mmExtension Offset:0.520 mm

CEMENTATION

The restorations must be etched (5% HF for 10 sec) prior to cementing. The etched surface should be thoroughly rinsed with water.

Etching for longer time (more than 10 sec) or using a higher concentration (>5%) of HF etchant is **NOT** recommended.

Dental professionals should use conventional cements, adhesive resin cements or self-adhesive resin cements for luting Obsidian restorations. Obisidan restorations require salinization or conditioning of the bonding surface. Adhesive resin cement is preferred for inlay, onlays and partial crowns. Anterior and posterior crowns can be cemented with conventional cements, adhesive resin cements or self-adhesive resin cements.



Incorrectly etched (lacking etching on select internal areas & margin edges).



5% HF etching gel applied inside the restoration.



5% HF etching gel applied all around the margin using a microbrush.



Correctly etched restoration (internally and all around the margin edges).