



## FULL CONTOUR ZIRCONIA PREP GUIDELINES

GENERAL PREPARATION GUIDELINES FOR ALL-CERAMIC RESTORATIONS SHOULD BE FOLLOWED (FIG. 1 & 2):

1. Preparation should follow the anatomy of the tooth, providing at least the minimum thickness required for the respective restoration (Table 1). A **1.0 mm** axial and occlusal reduction is considered **ideal** for full contour zirconia restorations.
2. A definitive finish line (shoulder with rounded internal line angles or chamfer) is recommended.
3. All sharp edges and line angles should be rounded.

TABLE 1

### Minimum Zirconia Thickness - Crowns

Anterior	Crowns
Axial	≥ 0.5 mm
Incisal/Occlusal	≥ 0.5 mm
Connector Dimensions	n/a
Posterior	Crowns
Axial	≥ 0.5 mm
Incisal/Occlusal	≥ 0.5 mm
Connector Dimensions	n/a

### Minimum Zirconia Thickness - Bridges

	3-Unit	≥4 units with max 2 connected pontics	Cantilever with 1 pontic
<b>Anterior</b>			
Axial	≥ 0.5 mm	≥ 0.7 mm	≥ 0.7 mm
Incisal/Occlusal	≥ 0.7 mm	≥ 1.0 mm	≥ 1.0 mm
Connector Dimensions	≥ 7 mm <sup>2</sup>	≥ 9 mm <sup>2</sup>	≥ 12 mm <sup>2</sup>
<b>Posterior</b>			
Axial	≥ 0.5 mm	≥ 0.7 mm	≥ 0.7 mm
Incisal/Occlusal	≥ 0.7 mm	≥ 1.0 mm	≥ 1.0 mm
Connector Dimensions	≥ 9 mm <sup>2</sup>	≥ 12 mm <sup>2</sup>	≥ 12 mm <sup>2</sup>

FIGURE 1

Occlusal reduction  
1.0 mm ideal  
0.5 mm minimum

Rounded internal line angles

Taper between 4° and 8°

Axial reduction  
0.5 mm to 1.5 mm

Reduction of ≥ 0.5 mm at gingival margin

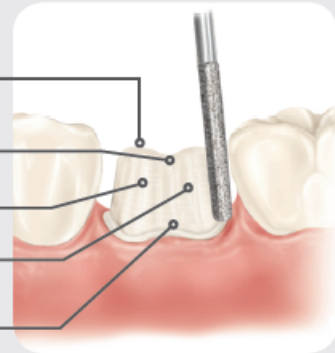


FIGURE 2

Chamfer/shoulder preparation

Rounded internal line angles

Reduction of ≥ 0.5 mm at gingival margin

Axial reduction  
0.5 mm to 1.5 mm

Incisal reduction  
0.5 mm to 2.0 mm

