



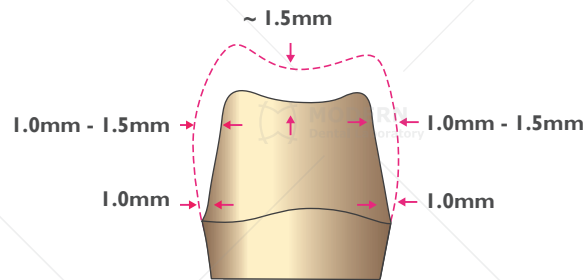
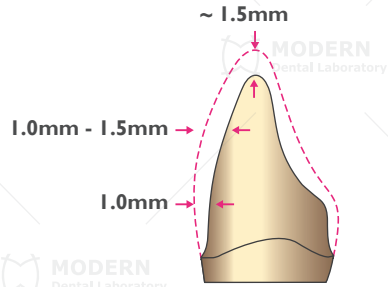
 Full Milled Zirconia	 High Translucency Zirconia			 CAD/CAM Restorative
Materials & Properties	Zirconia With Porcelain	High Translucent Zirconia	High Translucent Zirconia	Lithium Disilicate	Hybrid-Ceramic-Polymer	Resin Nano Ceramic
Material Country Of Origin	Germany	Japan	Germany	Central Europe	Germany	Germany
Flexural Strength	1200 MPa	1100 MPa	1200 MPa	360-400 MPa	150-160 MPa	200 MPa
Prothesis Indications						
Crown / Inlay / Onlay	✓	✓*	✓*	✓	✓	Inlay / Onlay
Bridge (Max. Units)	14	14	Up to 48 mm	3**	-	-
Veneer	-	-	-	✓✓	✓	✓
Screw Retained (Crown)	✓	✓	✓	✓	✓	-
Screw Retained (Crown & Bridge)	✓	✓	✓	-	-	-
Recommended Cementation Materials						
Resin Modified Glass Ionomer	✓	✓	✓	✓	✓	✓
Self-adhesive Resin	✓	✓	✓	✓	✓	✓
Adhesive Resin	-	-	-	✓✓✓	✓✓✓	✓✓✓

* Labial porcelain recommended for anterior dentition.

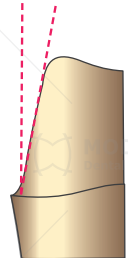
** Up to 2nd premolar only. Pontic width maximum 9mm and 11mm for anteriors and premolars respectively.

Conventional preparation

— For full ceramic restorations in general

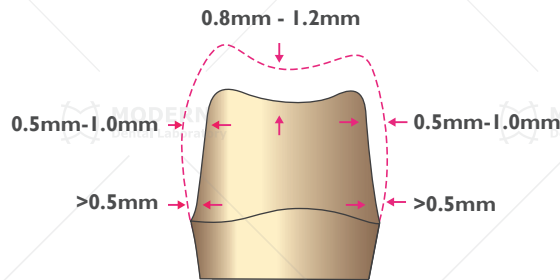
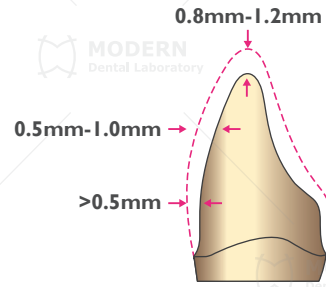


Taper between 5° - 15°

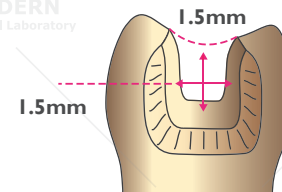
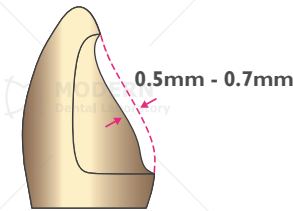
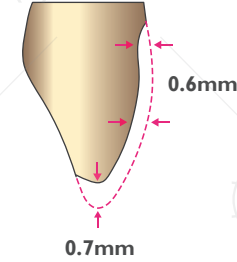
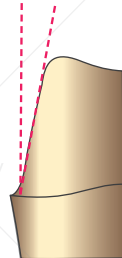


Minimally invasive preparation

— For full contour zirconia restorations (without porcelain)



Taper between 5° - 15°



Veneer preparation

- ≥0.6mm labial and cervical reduction
- ≥0.7mm incisal reduction
- Incisal preparation margins must avoid areas of static or dynamic contact

Maryland Bridge preparation

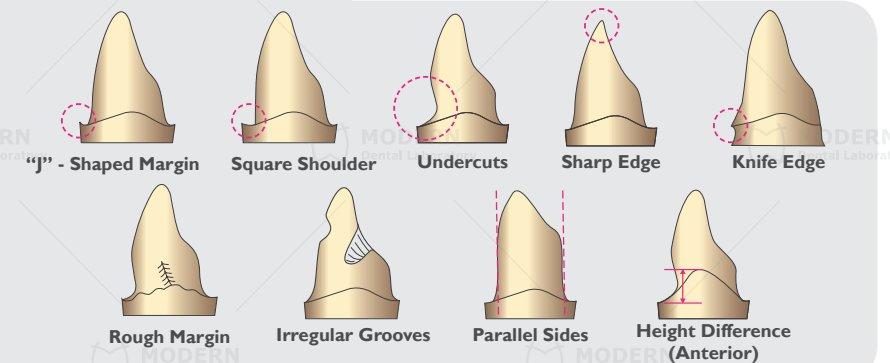
- 0.5 to 0.7mm lingual reduction
- Preparation should be in enamel instead of dentine
- Use of a retentive element is recommended — either a groove, a ridge or a pinhole
- Retentive element must have a minimum radius of 0.5mm
- Circular / Island preparation of wings is not possible

Inlay / Onlay preparation

- ≥1.5mm preparation depth
- ≥1.5mm isthmus width
- Ideally 6° sidewall taper
- Proximal box should have diverging walls

Contraindications

For all types of full ceramic restorations



The ideal preparation should be smooth and have a chamfer or slight shoulder margin, with no sharp edges or irregular grooves. Retentive elements, if required, should have a minimum radius of 0.5mm.