

D&S DENTAL LABORATORY - CROWN COMPARISON SHEET

RESTORATION	TYPE	INDICATIONS	CONTRA INDICATIONS	ADVANTAGES	DISADVANTAGES	PAGE
Porcelain Fused to Zirconia	Zirconia Veneered with Porcelain	<ul style="list-style-type: none"> • Single Units • Multi-Unit Bridges • Anywhere with Sufficient Clearance (1.5 mm) 	<ul style="list-style-type: none"> • Limited Clearance 	<ul style="list-style-type: none"> • "Cadillac" of All-Ceramic • Highest Strength Substructure Other than Metal • Translucency & Color • CAD/CAM Fit & Accuracy 	<ul style="list-style-type: none"> • Possibility of Porcelain Fractures 	1
e.max®	Lithium Disilicate (Monolithic Posterior)	<ul style="list-style-type: none"> • Anterior Single Units • 3-Unit Anterior Bridges with Pontics <9 mm • Must Have Sufficient Clearance (1.5 mm) 	<ul style="list-style-type: none"> • Subgingival Preps • Bruxers • Long Span Bridges • Limited Clearance 	<ul style="list-style-type: none"> • Translucency & Esthetics • Color Regardless of Shade • Porcelain Added for Translucency in Anterior 	<ul style="list-style-type: none"> • Moderate Strength • MUST Have 1.5 mm Clearance or Strength Dramatically Reduced 	2
ZR Plus™ with Micro Layering	High Strength Zirconia With a Micro Facial Cutback & Layer of Porcelain	<ul style="list-style-type: none"> • Single Units • Multi-Unit Bridges • Bruxers & Grinders 	<ul style="list-style-type: none"> • Esthetic Zone 	<ul style="list-style-type: none"> • High Strength • Facial Porcelain Allows for More Accurate Shade Match & Better Esthetic Results • Lack of Occlusal Porcelain Reduces Likelihood of Fx 	<ul style="list-style-type: none"> • Much Better Esthetic Results than Monolithic ZR or ZR Plus, but Not as Translucent as Lava 	3
ZR Plus™	High Strength Zirconia (Monolithic Crown)	<ul style="list-style-type: none"> • Posterior Single Units • Posterior Bridges • Anywhere a Traditional FCC Would Be Used 	<ul style="list-style-type: none"> • Esthetic Zone 	<ul style="list-style-type: none"> • High Strength • Translucency & Shade Match vs. Other Monolithic Zirconia Crowns • CAD/CAM Fit & Accuracy • 15-Year Product Warranty 	<ul style="list-style-type: none"> • Limited Translucency as Monolithic 	4
ZR™	Zirconia (Monolithic Crown)	<ul style="list-style-type: none"> • Posterior Single Units • Posterior Bridges • Anywhere a Traditional FCC Would Be Used 	<ul style="list-style-type: none"> • Any Anterior 	<ul style="list-style-type: none"> • High Strength • CAD/CAM Fit & Accuracy • 15-Year Product Warranty • Low Cost 	<ul style="list-style-type: none"> • Very Little Translucency • Shade Match can be Difficult • MUST Polish After Adjusting to Avoid Abrasiveness on Opposing 	5
ZR-V™	Monolithic Zirconia Crown & Bridge	<ul style="list-style-type: none"> • Single Unit Crowns • Multi-Unit Bridges 	<ul style="list-style-type: none"> • Anterior Single or Multi-Unit Cases Due to Minimal Translucency 	<ul style="list-style-type: none"> • Same High Strength as ZR at a Lower Cost • Exact Match to Vita Classical Shade Guide • CAD/CAM Fit & Accuracy • Made in Our Lab 	<ul style="list-style-type: none"> • Limited Translucency as Monolithic 	6
ZR Aesthetic™	High Translucency Monolithic Zirconia	<ul style="list-style-type: none"> • Single unit crowns • 3-unit bridges 	<ul style="list-style-type: none"> • Bridges over 3 units 	<ul style="list-style-type: none"> • Excellent shade match to VITA® Classic shades • High translucency • High strength 	<ul style="list-style-type: none"> • No more than 3-Unit Bridge 	7
Imagine™	High Translucency Monolithic Zirconia Crown & Bridge	<ul style="list-style-type: none"> • Single Unit Crowns • 3-Unit Bridges 	<ul style="list-style-type: none"> • Long Bridges (over 3 units) • Very Dark Preps 	<ul style="list-style-type: none"> • As Translucent as Pressed All Ceramic • Twice the Strength of Lithium Disilicate • Bridges Up to Three Units in Length 	<ul style="list-style-type: none"> • No More than 3-Unit Bridge 	8
PFM	Metal Alloy Veneered with Porcelain	<ul style="list-style-type: none"> • Single Units • Multi-Unit Bridges • Anywhere with Sufficient Clearance (1.5 mm) 	<ul style="list-style-type: none"> • Limited Clearance 	<ul style="list-style-type: none"> • Strength of Metal 	<ul style="list-style-type: none"> • Esthetics vs. Ceramic • Possibility of Porcelain Fracture • Metal Cost 	9
FCC	Cast Metal Alloy	<ul style="list-style-type: none"> • Posterior with Limited Clearance 	<ul style="list-style-type: none"> • Any Anterior 	<ul style="list-style-type: none"> • Strength of Metal 	<ul style="list-style-type: none"> • Esthetics • Metal Cost 	10

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RESTORATION	LAB TIME	STRENGTH	ESTHETICS	CEMENT	RECOMMENDED USE	PAGE
Porcelain Fused to Zirconia	8	High	Excellent	RMGI	The "Cadillac" of all-ceramic restorations, Porcelain Fused to Zirconia is a highly esthetic restoration for anterior cases, but can be used for any indication with at least 1.5 mm of clearance.	1
e.max®	8	Moderate	Excellent	Any	e.max is a highly translucent, esthetic crown that is best used for single unit, anterior restorations. Bridges and posterior with minimal clearance should be avoided. If preps are not completely rounded, or if < 1.5 mm of clearance, the chance of fracture greatly increases.	2
ZR Plus™ with Micro Layering	8	High	Good +	RMGI	ZR Plus with Micro Layering provides the high strength of full-contour Zirconia (ZR & ZR Plus) with higher esthetic results achieved by veneering porcelain on the facial. The crown is designed to full contour & then "cut back." The risk of porcelain fracture is greatly reduced. This is also an ideal anterior restoration for bruxers or grinders.	3
ZR Plus™	6	High	Good	RMGI	The ZR Plus is a more esthetic version of the ZR. This product still provides high strength and shade matches with the Vita shade guide are very accurate.	4
ZR™	6	High	Good	RMGI	The ZR is best utilized for posterior indications. Both single-unit, and multi-unit bridges can be fabricated. First and second molars with limited clearance are ideal indications for this crown.	5
ZR-V™	6	High	Fair	RMGI	The ZR-V is best used for posterior indications. Both single-unit and multi-unit bridges can be fabricated. First and second molars with limited clearance are ideal indications for this crown.	6
ZR Aesthetic™	6	High	Excellent	3M RelyX™ Unicem 2 Self-Adhesive Resin Cement recommended	ZR Aesthetic™ is the choice for your high-esthetic full-contour crown and bridge cases.	7
Imagine™	6	High	Excellent	Any	Imagine is a highly translucent crown that is best used for single to three-unit, anterior restorations.	8
PFM	8	High	Good	Any	PFMs are still the go-to crown for many offices, and they can be used for any indication as long as there is sufficient clearance. Lack of clearance or improper prep will lead to porcelain fractures.	9
FCC	6	High	Poor	Any	FCCs are best suited to molars with very limited clearance; however, cost due to metal prices can be a deterrent as are esthetics. Most posterior restorations are now fabricated from the ZR.	10