

## D&S DENTAL LABORATORY - CROWN COMPARISON SHEET

RESTORATION	TYPE	INDICATIONS	CONTRA INDICATIONS	ADVANTAGES	DISADVANTAGES	PAGE
Lava™	Lava Zirconia Veneered with Porcelain	<ul style="list-style-type: none"> <li>• Single Units</li> <li>• Multi-Unit Bridges</li> <li>• Anywhere with Sufficient Clearance (1.5 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Limited Clearance</li> </ul>	<ul style="list-style-type: none"> <li>• “Cadillac” of All-Ceramic</li> <li>• Highest Strength Substructure Other than Metal</li> <li>• Translucency &amp; Color</li> <li>• CAD/CAM Fit &amp; Accuracy</li> </ul>	<ul style="list-style-type: none"> <li>• Possibility of Porcelain Fractures</li> </ul>	1
Lava™ Esthetic	High Translucency Monolithic Zirconia	<ul style="list-style-type: none"> <li>• Single unit crowns</li> <li>• 3-unit bridges</li> </ul>	<ul style="list-style-type: none"> <li>• Bridges over 3 units</li> </ul>	<ul style="list-style-type: none"> <li>• First zirconia with inherent, toothlike fluorescence</li> <li>• Excellent shade match to VITA® Classic shades</li> <li>• High translucency</li> <li>• High strength</li> </ul>	<ul style="list-style-type: none"> <li>• No more than 3-Unit Bridge</li> </ul>	2
ZR Plus™ with Micro Layering	High Strength Zirconia With a Micro Facial Cutback & Layer of Porcelain	<ul style="list-style-type: none"> <li>• Single Units</li> <li>• Multi-Unit Bridges</li> <li>• Bruxers &amp; Grinders</li> </ul>	<ul style="list-style-type: none"> <li>• Esthetic Zone</li> </ul>	<ul style="list-style-type: none"> <li>• High Strength</li> <li>• Facial Porcelain Allows for More Accurate Shade Match &amp; Better Esthetic Results</li> <li>• Lack of Occlusal Porcelain Reduces Likelihood of Fx</li> </ul>	<ul style="list-style-type: none"> <li>• Much Better Esthetic Results than Monolithic ZR or ZR Plus, but Not as Translucent as Lava</li> </ul>	3
ZR Plus™	High Strength Zirconia (Monolithic Crown)	<ul style="list-style-type: none"> <li>• Posterior Single Units</li> <li>• Posterior Bridges</li> <li>• Anywhere a Traditional FCC Would Be Used</li> </ul>	<ul style="list-style-type: none"> <li>• Esthetic Zone</li> </ul>	<ul style="list-style-type: none"> <li>• High Strength</li> <li>• Translucency &amp; Shade Match vs. Other Monolithic Zirconia Crowns</li> <li>• CAD/CAM Fit &amp; Accuracy</li> <li>• 15-Year Product Warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Limited Translucency as Monolithic</li> </ul>	4
ZR™	Zirconia (Monolithic Crown)	<ul style="list-style-type: none"> <li>• Posterior Single Units</li> <li>• Posterior Bridges</li> <li>• Anywhere a Traditional FCC Would Be Used</li> </ul>	<ul style="list-style-type: none"> <li>• Any Anterior</li> </ul>	<ul style="list-style-type: none"> <li>• High Strength</li> <li>• CAD/CAM Fit &amp; Accuracy</li> <li>• 15-Year Product Warranty</li> <li>• Low Cost</li> </ul>	<ul style="list-style-type: none"> <li>• Very Little Translucency</li> <li>• Shade Match can be Difficult</li> <li>• MUST Polish After Adjusting to Avoid Abrasiveness on Opposing</li> </ul>	5
ZR-V™	Monolithic Zirconia Crown & Bridge	<ul style="list-style-type: none"> <li>• Single Unit Crowns</li> <li>• Multi-Unit Bridges</li> </ul>	<ul style="list-style-type: none"> <li>• Anterior Single or Multi-Unit Cases Due to Minimal Translucency</li> </ul>	<ul style="list-style-type: none"> <li>• Same High Strength as ZR at a Lower Cost</li> <li>• Exact Match to Vita Classical Shade Guide</li> <li>• CAD/CAM Fit &amp; Accuracy</li> <li>• Made in Our Lab</li> </ul>	<ul style="list-style-type: none"> <li>• Limited Translucency as Monolithic</li> </ul>	6
Imagine™	High Translucency Monolithic Zirconia Crown & Bridge	<ul style="list-style-type: none"> <li>• Single Unit Crowns</li> <li>• 3-Unit Bridges</li> </ul>	<ul style="list-style-type: none"> <li>• Long Bridges (over 3 units)</li> <li>• Very Dark Preps</li> </ul>	<ul style="list-style-type: none"> <li>• As Translucent as Pressed All Ceramic</li> <li>• Twice the Strength of Lithium Disilicate</li> <li>• Bridges Up to Three Units in Length</li> </ul>	<ul style="list-style-type: none"> <li>• No More than 3-Unit Bridge</li> </ul>	7
e.max®	Lithium Disilicate (Monolithic Posterior)	<ul style="list-style-type: none"> <li>• Anterior Single Units</li> <li>• 3-Unit Anterior Bridges with Pontics &lt;9 mm</li> <li>• Must Have Sufficient Clearance (1.5 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Subgingival Preps</li> <li>• Bruxers</li> <li>• Long Span Bridges</li> <li>• Limited Clearance</li> </ul>	<ul style="list-style-type: none"> <li>• Translucency &amp; Esthetics</li> <li>• Color Regardless of Shade</li> <li>• Porcelain Added for Translucency in Anterior</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate Strength</li> <li>• MUST Have 1.5 mm Clearance or Strength Dramatically Reduced</li> </ul>	8
Empress®	Leucite Glass-Ceramic	<ul style="list-style-type: none"> <li>• Anterior Single Units</li> <li>• Inlays/Onlays</li> <li>• Veneers</li> </ul>	<ul style="list-style-type: none"> <li>• Subgingival Preps</li> <li>• Bruxers</li> <li>• Bridges</li> <li>• Posterior</li> </ul>	<ul style="list-style-type: none"> <li>• Best Used for Veneers</li> <li>• Esthetics &amp; Translucency</li> </ul>	<ul style="list-style-type: none"> <li>• Strength</li> </ul>	9
PFM	Metal Alloy Veneered with Porcelain	<ul style="list-style-type: none"> <li>• Single Units</li> <li>• Multi-Unit Bridges</li> <li>• Anywhere with Sufficient Clearance (1.5 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Limited Clearance</li> </ul>	<ul style="list-style-type: none"> <li>• Strength of Metal</li> </ul>	<ul style="list-style-type: none"> <li>• Esthetics vs. Ceramic</li> <li>• Possibility of Porcelain Fracture</li> <li>• Metal Cost</li> </ul>	10
FCC	Cast Metal Alloy	<ul style="list-style-type: none"> <li>• Posterior with Limited Clearance</li> </ul>	<ul style="list-style-type: none"> <li>• Any Anterior</li> </ul>	<ul style="list-style-type: none"> <li>• Strength of Metal</li> </ul>	<ul style="list-style-type: none"> <li>• Esthetics</li> <li>• Metal Cost</li> </ul>	11

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RESTORATION	LAB TIME	STRENGTH	ESTHETICS	CEMENT	RECOMMENDED USE	PAGE
Lava™	8	High	Excellent	RMGI	The "Cadillac" of all-ceramic restorations. Lava is a highly esthetic restoration for anterior cases, but can be used for any indication with at least 1.5 mm of clearance.	1
Lava™ Esthetic	6	High	Excellent	3M RelyX™ Unicem 2 Self-Adhesive Resin Cement recommended	Lava Esthetic is the first zirconia with inherent, toothlike fluorescence for your high-esthetic full-contour crown and bridge cases. It requires 0.8 mm of clearance.	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 as it can be fabricated with as little as 0.7 mm of clearance.	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 as it can be fabricated with as little as 0.7 mm of clearance.	6
Imagine™	6	High	Excellent	Any	Imagine is a highly translucent crown that is best used for single to three-unit, anterior restorations. Bridges and posterior restorations require as little as .7 mm clearance.	7
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.	8
Empress®	8	Weak	Excellent	Resin	Empress is an extremely translucent, esthetic restoration that has very minimal strength. It should only be used for single unit anterior cases, and it is best suited for veneers.	9
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.	10
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.	11