

Lava™

Crowns and Bridges



There is a
Difference

Precise Fit
Precision CAD/CAM system for outstanding marginal fit

Superior fit relative to leading competition^{1,2,3}

Fit cited as the most important attribute to doctors⁴

Proven Strength
Proven high strength performance-1440 MPa 3-pt. bend strength⁵

5-year clinical study with 100% survival rate⁶

Natural Aesthetics
Natural translucency and unmatched aesthetics

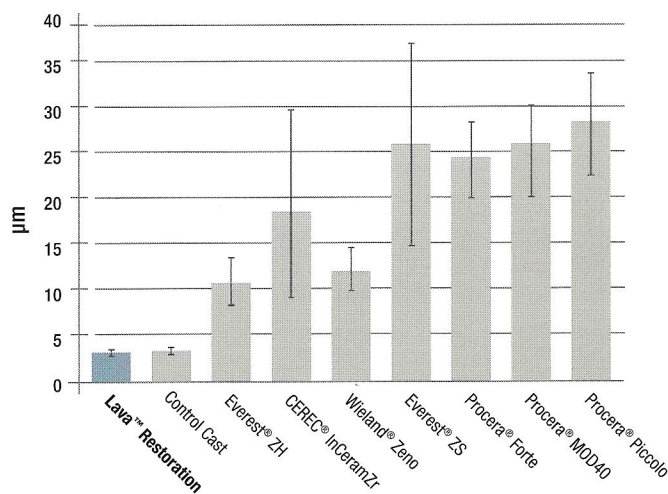
Patented substructure system available in 8 shades.

Precision fit, proven strength and natural aesthetics.

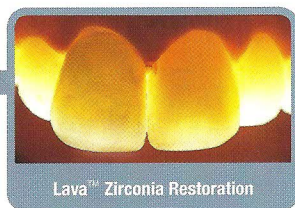
Lava™ Crowns and Bridges from 3M ESPE has been established as a leading brand in CAD/CAM-produced zirconia restorations through its precise fit, proven strength and natural aesthetics. 3M has over 100 years of manufacturing excellence and more than 25 years of zirconia research and processing, 3M ESPE brings vast expertise in materials science and systems integration to create products that consistently meet the high standard that doctors and labs expect. Lava crowns and bridges from 3M ESPE.

There is a difference.

Marginal Fit: Mean Marginal Gap¹



Backlit view shows shadowing of the PFM restoration due to the metal substructure



Backlit view shows the Lava restoration's beautiful, natural translucency



Porcelain-Fused-to-Metal Crown

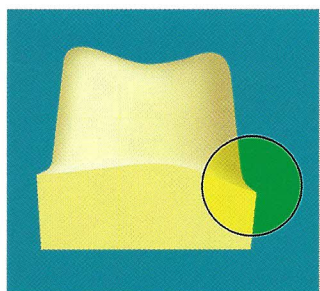


Lava™ Zirconia Crown

3M ESPE

Offering Lava™ Restorations is easy!

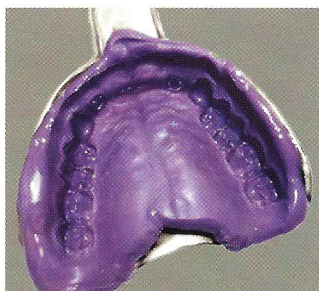
Clinical preparation and procedure



1. Tooth Preparation

Minimal tooth reduction required due to zirconia coping thickness of 0.3mm or 0.5mm

Chamfer or shoulder margin



2. Impression

3M™ ESPE™ Impregum™ Penta™ Soft Polyether Impression Material

3M™ ESPE™ Imprint™ 3 VPS Impression Material



3. Temporization

3M™ ESPE™ Protemp™ Crown

3M™ ESPE™ Protemp™ Garant™ Temporization Material



4. Cementation

3M™ ESPE™ RelyX™ Unicem Self-Adhesive Universal Resin Cement

Dental lab process

Just send your prescription to the lab of your choice or directly to any of our Authorized Lava™ Milling Centers (ALMCs). Be sure to request a genuine Lava™ Framework.

Any lab can request an outsourced coping from an Authorized Lava Milling Center. (A list of ALMCs can be found at 3MESPE.com/lava.)



Approved indications for use

Single crowns; 3- and 4-unit bridges with multiple abutments; 5- and 6-unit bridges; Splinted crowns (up to six units); Cantilever bridges (up to four units); no single abutments

- 0828 *In-Vitro* Vertical Marginal Gap Comparison of CAD/CAM Zirconium Copings, A.J.T. Shannon, F. Qian, P. Tan, and D. Gratton, University of Iowa, Iowa City, USA (2007)
- 3M ESPE Lava showed the lowest marginal and absolute marginal gap in comparison to Cercon and DCS, A. Piwowarczyk, H.-C. Lauer, Determining the marginal fit of CAD/ CAM bridge frameworks, Pan European Federation Conference (PEF: CED) #0254 (2006)
- Lava 3-unit bridges showed smallest Marginal gap v. Et'kon, Cercon brain, Cerec Inlab, F. Beuer, T. Fischer, K.-J. Erdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet; (2005) IADR #1336 and *In-vitro* Study Marginal fit of Lava restorations; F. Beuer, T. Fischer, K.-J. Erdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet, industrial report (2006)

- Key Group Study, "Accuracy of fit" listed as #1 out of 16 possible attributes. 134 total doctor responses (October 2006)
- 3M ESPE Internal 3 pt- Bending Test – ISO 6872 (September 2005)
- 3-unit posterior bridges, P. Pospeich, University of Homburg, Homburg (Start 2000)
- Photos courtesy of MDT V. Weber and Dr. D. Edelhoft, Aachen.
- Photography and case study courtesy of Dr. Heather Rehtin.
- Dentistry and clinical photography courtesy of Ariel Raigrodski, DMD, MS; Ceramics, Mr. Andreas Saltzer, CDT.

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Visit www.3MESPE.com/lava for more information

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70-2009-3695-6

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