



D/M series

In-house  
milling



# Zolid® SHT

Super-high translucent zirconia

Zirconia available in a wide variety of super-high translucent shades for highly esthetic full-contour cases



## EFFICIENCY

The shade offering and process reliability ensure easy, time-saving processing while simplifying handling



## ESTHETICS

The super-high translucency of the material is the ideal basis for highly esthetic restorations



## FLEXIBILITY

The broad range of shades and individualization options gives maximum flexibility to dental professionals

# Available shades

- Zolid® SHT discs (for in-house milling) are available in white and 10 multilayered shades (0/A1, A2/A3, A3,5/A4, 0/B1, B2/B3, B3/B4, C1/C2, C3/C4, D2/D3 and D3/D4).

## WHITE ZOLID® SHT DISCS (EACH ARTICLE CONTAINS 1 DISC)

Disc height	12 mm	14 mm	16 mm	18 mm	20 mm
Round Disc (98 mm)	760130-STM	760131-STM	760132-STM	760133-STM	760134-STM

## MULTILAYER ZOLID® SHT DISCS (EACH ARTICLE CONTAINS 1 DISC)











Disc shape	Round Disc (98 mm)		
Disc height	14 mm	16 mm	20 mm
 0/A1	761776-STM	761777-STM	761778-STM
 A2/A3	761780-STM	761781-STM	761782-STM
 A3,5/A4	761784-STM	761785-STM	761786-STM
 0/B1	761788-STM	761789-STM	761790-STM
 B2/B3	761792-STM	761793-STM	761794-STM
 B3/B4	761796-STM	761797-STM	761798-STM
 C1/C2	761800-STM	761801-STM	761802-STM
 C3/C4	761804-STM	761805-STM	761806-STM
 D2/D3	761808-STM	761809-STM	761810-STM
 D3/D4	761812-STM	761813-STM	761814-STM

# Available indications









- For final restorations
- For maximum 3-unit restorations

Recommended indication  
Possible indication

## TOOTH-BASED

				
Inlay	Onlay	Veneer	Partial crown	Coping
				
Full-contour crown	Telescopic crown	Bridge/bar framework	Full-contour bridge	Vestibular veneering

## ABUTMENT-BASED (AVAILABLE WITHIN THE CARES® X-STREAM™ SOLUTION)

			
Coping on Ti-Base	Full-contour crown on Ti-Base	Bridge/bar framework on Ti-Base	Full-contour bridge on Ti-Base
			
Coping on CAD/CAM abutment	Full-contour crown on CAD/CAM abutment	Bridge/bar framework on CAD/CAM abutments	Full-contour bridge on CAD/CAM abutments

# Workflow

STEPS	OPTIONS
Nesting	Position the restoration in the desired disc shade transition (for Zolid® SHT multilayer)
Milling	Dry milling with D and M series
Dying	Only for white color <i>Recommendation: ceramill® Coloring Liquid FX for Zolid® SHT</i>
Sintering	<i>Recommendation: Straumann® CARES® Therm</i>
Finishing	Polishing Staining & glazing Layering <i>Recommendation for staining and glazing: ceramill® stain and glaze for all Zolid® zirconia</i>
Cementing	Adhesive Self-adhesive Conventional

# Chemical composition

ELEMENTS	WEIGHT
$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3$	$\geq 99.0 \%$
$\text{Y}_2\text{O}_3$	8.5 - 9.6 %
$\text{HfO}_2$	$\leq 5 \%$
$\text{Al}_2\text{O}_3$	$\leq 0.5 \%$
Other oxides	$\leq 1 \%$

# Physical properties

PROPERTIES	VALUE
Bending Strength (3-point) [MPa]	$700 \pm 150$
E-Module [GPa]	$\geq 200 \text{ GPa}$
CTE (20 – 500°C) [ $10^{-6}\text{K}^{-1}$ ]	$10.1 \pm 0.5$

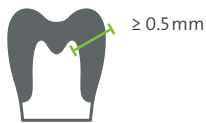
# Preparation guidelines

- ▶ The preparation shall not have angles or sharp edges
- ▶ The shoulder preparation shall be with rounded inner edges and/or chamfer
- ▶ The preparation shall have retentive surfaces for conventional cementation
- ▶ The cross-sections shall be adjusted in relation to the total size of the restoration
- ▶ The transition from a connector to a crown or coping shall be rounded

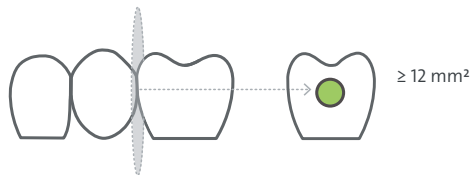
## Wall thickness

### MINIMAL RESTORATION DESIGN

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Restoration wall thickness



Connector cross-section

## Notes

## Notes

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