

## 3Shape Parameters for Copings, Crowns and Bridges Design built with EnvisionTEC 3D Printers

The **3Shape Dental Designer** software has been successfully tested by EnvisionTEC® for copings, crowns and bridges design used on our machines from the **Perfactory® and Desktop** series. The software settings for the different model types as shown below will help you achieve the best results.

We recommend the use of our **E-Partial** or **Press E-Cast** material for your build models.

### Settings for Single and Bridged Copings

We recommend the following settings for the design of copings:

Name	General		Cement spaces							Wall height (mm)	Apply uniform offset	Anatomical offset uniform (mm)	Anatomical offset facial (mm)
	Material	Color	Cement gap (mm)	Extra cement gap (mm)	Distance to margin line (mm)	Smooth distance (mm)	Remove undercuts	Drill Compensation					
EnvisionTEC Coping			0.025	0.040	1.000	0.200	True		1.000	True	0.700	1.200	

Coping overlay								Lingual band			
Anatomical offset proximal (mm)	Anatomical offset occlusal (mm)	Margin line offset (mm)	Offset angle (deg)	Extension offset (mm)	Wall thickness (mm)	Remove undercuts	Simple edge design	Apply lingual band	Lingual band start angle (deg)	Lingual band end angle (deg)	Lingual band offset (mm)
0.400	1.200	0.250	65.010	0.200	0.600	None	False	False	120	240	1.000

### Settings for Single and Bridged Crowns

The following settings are recommended for the design of crowns:

Name	General			Cement spaces							Wall thickness (mm)	Margin line offset (mm)	Offset angle (deg)	Extension offset (mm)
	Material	Only used for anatomical copings	Color	Cement gap (mm)	Extra cement gap (mm)	Distance to margin line (mm)	Smooth distance (mm)	Remove undercuts	Liner Space (mm)					
EnvisionTEC Crown		False		0.010	0.040	1.00	0.20	True	0.15	0.60	0.10	65	0.10	

Overlay								
Edge design lingual offset (mm)	Edge design facial offset (mm)	Edge design interprox1 offset (mm)	Edge design interprox2 offset (mm)	Crown degrading (mm)	Perform cutting to antagonist	Cut distance to antagonist (mm)	Contact space distance to neighbour teeth (mm)	
0.20	0.20	0.20	0.20	0	True	0.00	0.00	