

IVOCLAR DIGITAL SOFTWARE PARAMETER CHART DENTAL WINGS

- Important information:**
- Observe the Instructions for Use of the materials.
 - The given dimensions for internal crown surfaces serve as guidelines and may be customized according to individual wishes.
 - Ordering at Service+: Ordering at Service+: If the external dimensions of the crown surfaces/core build-up fall below the specified parameter, the warranty is excluded and extra approval is required.



IPS e.max® CAD (crown/bridge)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
		Connector settings							
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.655 mm							

IPS e.max® CAD MO (coping)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	0.80 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	0.80 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.655 mm							

IPS e.max® CAD (inlay/onlay)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	premolar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.605 mm							

IPS e.max® CAD (veneer)

Software description		Cement spaces			External surfaces				
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
		Extra horizontal gap							
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	0.40 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.655 mm							

IPS e.max CAD (hybrid abutment crown)

Software description		Cement spaces			External surfaces				
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
		Extra horizontal gap							
Single crown	anterior	–	–	–	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	–	–	–	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	–	–	–	1.50 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Drill compensation		–							
Inner/outer compensation tool radius		–							

IPS e.max CAD (hybrid abutment)

Software description		Cement spaces			External surfaces				
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
		Extra horizontal gap							
Single crown	anterior	–	–	–	0.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	–	–	–	0.50 mm	0.20 mm	65°	0.10 mm	–
	molar	–	–	–	0.50 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Drill compensation		–							
Inner/outer compensation tool radius		–							

IPS e.max ZirCAD MO/LT

Software description		Cement spaces			External surfaces							
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness			Margin thickness	Emergence angle	Margin thickness	Connector thickness	
		Extra horizontal gap			1	< 3	> 4					
Single crown	anterior	0.06 mm	0.01 mm	1.00 mm	0.40 mm			0.20 mm	65°	0.10 mm	–	
	premolar	0.06 mm	0.01 mm	1.00 mm	0.60 mm			0.20 mm	65°	0.10 mm	–	
	molar	0.06 mm	0.01 mm	1.00 mm	0.60 mm			0.20 mm	65°	0.10 mm	–	
Connector settings												
Minimum connector area / 2 crowns	anterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	7 mm ²	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm ²	
Minimum connector area / 1 pontic	anterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	7 mm ²	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm ²	
Minimum connector area / 2 pontics	anterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm ²	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.70 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm ²	
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.01 mm	1.00 mm	0.70 mm	0.70 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm ²	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.70 mm	0.70 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm ²	
Milling parameters												
Drill compensation		Yes								Minimum wall thickness hybrid abutment/ hybrid abutment crown		0.70 mm
Inner/outer compensation tool radius		0.600 mm								Maximum implant angle		30°

IPS e.max ZirCAD MT / MT Multi

Software description		Cement spaces			External surfaces							
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness			Margin thickness	Emergence angle	Margin thickness	Connector thickness	
					Number of connected elements							
					1	< 3	> 4					
Single crown	anterior	0.06 mm	0.01 mm	1.00 mm	0.80 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	–	
	premolar	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	–	
	molar	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	–	
Connector settings												
Minimum connector area / 2 crowns	anterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	12 mm ²	
	posterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	16 mm ²	
Minimum connector area / 1 pontic	anterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	12 mm ²	
	posterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	16 mm ²	
Milling parameters												
Drill compensation		Yes			Minimum wall thickness hybrid abutment/ hybrid abutment crown						0.70 mm	
Inner/outer compensation tool radius		0.600 mm			Maximum implant angle						30°	

Colado CAD CoCr4

Software description		Cement spaces			External surfaces						
		Extra vertical gap Extra horizontal gap PrograMill (Service+)	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness		
Single crown	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–		
	premolar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–		
	molar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–		
	primary tele	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–		
Connector settings											
Minimum connector area / 2 crowns	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Minimum connector area / 1 pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Minimum connector area / 2 pontics	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Minimum connector area / cantilever pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Milling parameters											
Drill compensation		Yes			Minimum wall thickness abutment crown and bar abutment tooth						0.50 mm
Inner/outer compensation tool radius		0.600 mm			Maximum implant angle						30°

Colado CAD Ti2 / Colado CAD Ti5

Software description		Cement spaces			External surfaces						
		Extra vertical gap Extra horizontal gap PrograMill (Service+)	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness		
Single crown	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–		
	premolar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–		
	molar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–		
	primary tele	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–		
Connector settings											
Minimum connector area / 2 crowns	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Minimum connector area / 1 pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Minimum connector area / 2 pontics	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Minimum connector area / cantilever pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²		
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²		
Milling parameters											
Drill compensation		Yes			Minimum wall thickness abutment/abutment crown and bar abutment tooth						0.50 mm
Inner/outer compensation tool radius		0.600 mm			Maximum implant angle						30°

Telio CAD

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							

ProArt CAD Wax yellow

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							

ProArt CAD Wax yellow (for Digital Press Design – Press Multi)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
connector settings									
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							

ProArt CAD Wax blue

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	premolar	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	molar	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	primary tele	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / cantilever pontic	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Milling parameters									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							