

Checklist for designing Partial Dentures Frameworks using WIRONIUM® RP



Please ensure when designing your partial framework that you have taken the following points into account before sending your file to BEGO.

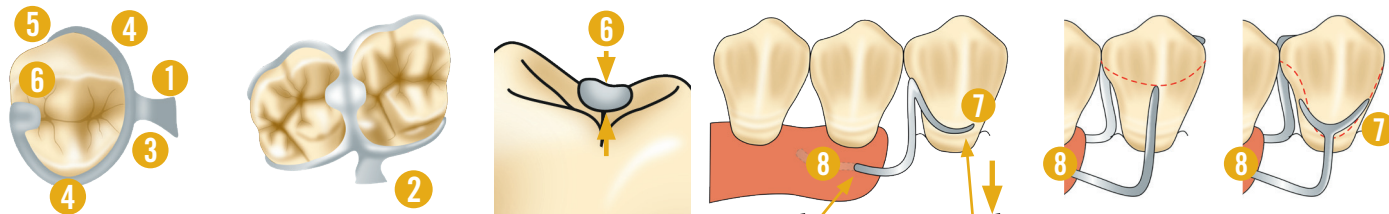
General parameters

- Smooth the model for easy insertion of the sublingual bar
 - Block out the model with a blockout angle of at least 2–5°
 - Adequately size the connections between the components based on your technical assessment
 - Design the sublingual bar so that it sits flush; if necessary, set the bar distance to “zero”
 - Retention pins are reinforced at the connection and firmly waxed onto the retentions
 - Smooth out edges and uneven surfaces – please pay attention to the wall thickness
 - For stippled surfaces, select medium or coarse stippling
 - 3Shape*: “medium” or “coarse”
 - exocad*: “leather coarse” or “coarse”
 - As part of the design process, take into account the material removed by finishing work and polishing – design approx. 0.1 mm thicker
 - Do not attach stabilizing connections or bars
 - Do not place support structures – BEGO places these individually
 - Design retentions thicker, particularly when designing with exocad; close any holes in the retention mesh
- The stated material thicknesses are guidelines that must be individually adapted depending on the design/construction
- The minimum thickness of the base is ≥ 0.6 mm – for a smooth base at least ≥ 0.7 mm

* This symbol is a commercial designation/registered trademark of a company which is not part of the BEGO company group.
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

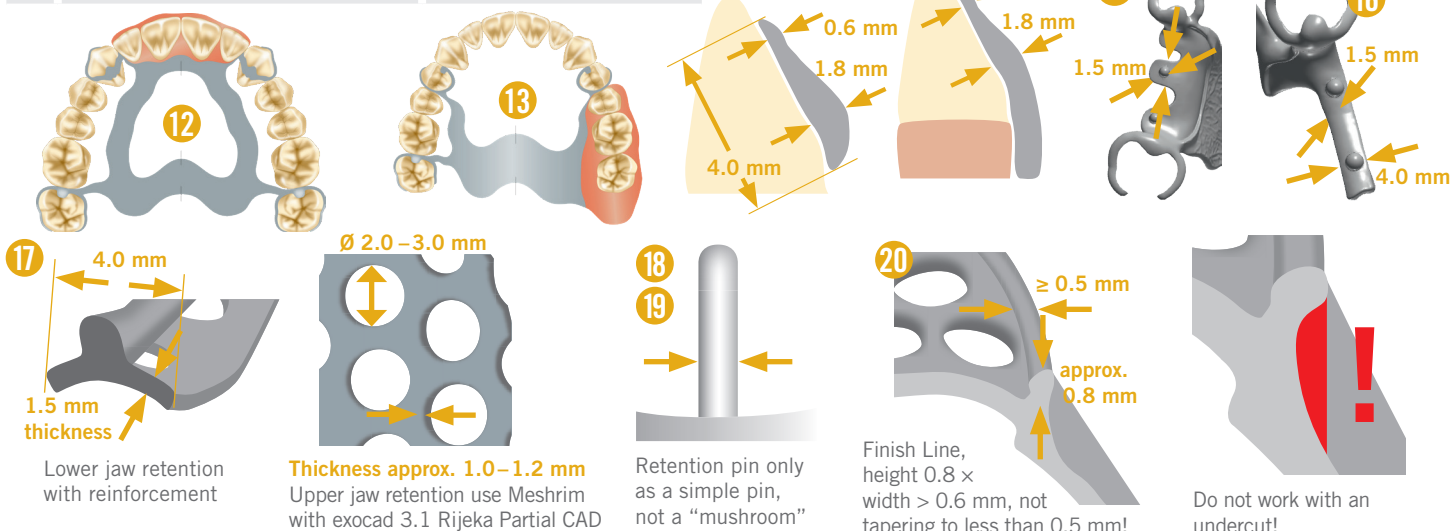
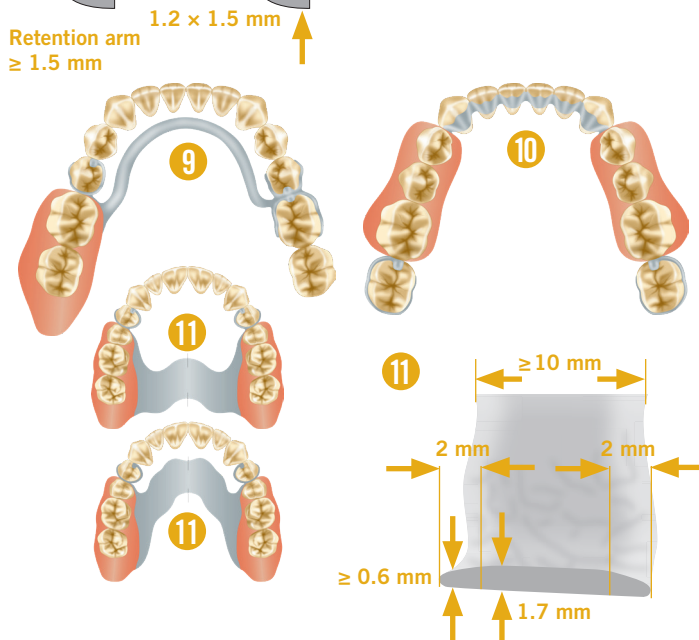
Clasp size (height x width in mm) relative to DME and exocad library for all elements

	3 Clasp shoulder*	4 Clasp arm*	5 Clasp terminal*	7 Clasp contact	8 Retention arm
E-clasp	1.5 x 2.0	1.3 x 2.0	1.2 x 1.5		
Ring clasp	1.8 x 2.0	1.5 x 2.0	1.2 x 1.5		
Bonwill clasp; G-clasp	1.5 x 2.0	1.3 x 2.0	1.2 x 1.5		
I-bar; Y-bar; T-bar	1.5 x 2.0	1.2 x 1.5	0.7 x 1.5	1.2 x 1.5	≥ 1.5 mm
Back-action clasp	1.8 x 2.0	1.5 x 2.0	1.2 x 1.5		
Bonyhard clasp		1.2 x 1.5	1.2 x 1.5	1.2 x 1.5	≥ 1.5 mm
1 Connector to the clasp shoulder	2.0 x 2.5 mm				
2 Minor connector for Bonwill clasp	2.0 x 2.5 mm				
6 Rest thickness	≥ 0.6 mm (do not design the edges tapering, avoid feather edges)				



Construction elements

Nr.	Construction element	Size (height x width)
9	Sublingual bar	4.2 x 2.0 mm
10	Continuous clasp; Lingual Plate	4.2 x 2.0 mm
11	Transversal connection, horseshoe-shaped base minimum edge thickness	1.5 to 1.7 x ≥ 10.0 mm
12	Skeletal base; A-P Palatal Strap	1.5 x 5.0 mm
13	Skeletal clasp connector	1.7 x 5.0 mm
14	Backplates; Guide planes, Lingual Plate	4.0 (tooth height) x ≥ 0.6 mm
15	Upper jaw tab retention also suitable for lower jaw saddle areas for WIRONIUM® RP Complete	1.5 x 3.0 mm
16	Lower jaw bar retention for free-end saddle applications with WIRONIUM® RP Complete	1.5 x 4.0 mm
17	Retentions in the saddle area	≥ 1.5 x 4.0 mm (reinforce lower jaw retentions if needed)**
18	Retention pin	Ø 1.2 mm
19	Retention pin for WIRONIUM® RP Complete	Anterior tooth Ø ≥ 1.4 mm Posterior tooth Ø ≥ 2.0 mm
20	Finish Line	0.8 x ≥ 0.6 mm no feather edge less than 0.5 mm!



* The stated clasp thicknesses are guidelines that must be individually adapted depending on the design.

** Depending on the retention profiles used

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