

RECOMMENDED GUIDELINES FOR PLACING STRAUMANN IMPLANTS

The position, size and number of implants are determined by the prosthetic requirements and anatomic considerations. If crowding of implants occurs, bone resorption and/or loss of interproximal tissues can occur. The need for careful planning is critical and cannot be overemphasized.

MESIODISTAL IMPLANT POSITION

The point of reference for measuring mesiodistal distances is always the implant shoulder, as it is the widest part of the implant.

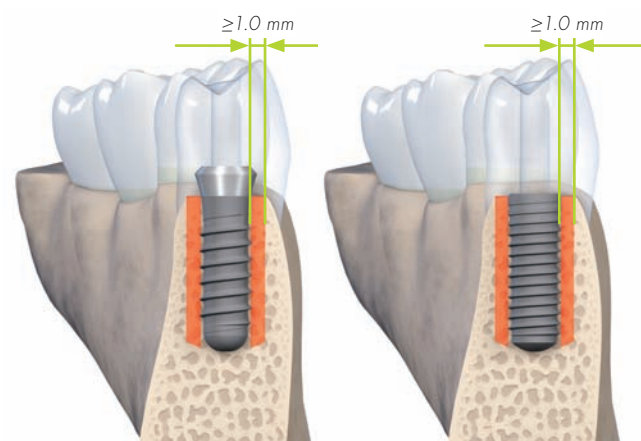
Note that all distances given in this flyer are rounded off to the 0.5 mm. The following basic rules must be applied:

Rule 1: The distance to adjacent tooth at bone level:
A minimal distance of 1.5 mm from the implant shoulder to the adjacent tooth at bone level (mesial and distal) is required.

Rule 2: Distance to adjacent implants at bone level:
A minimal distance of 3.0 mm between two adjacent implant shoulders (mesiodistal) is required.

OROFACIAL IMPLANT POSITION

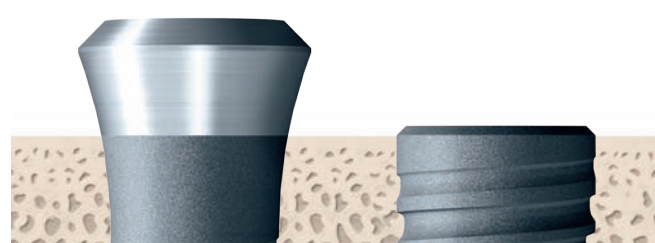
The facial and palatal bone layer must be at least 1.0 mm thick in order to ensure stable hard and soft tissue conditions. The minimal orofacial ridge widths for individual implant types are given in the indication tables featured inside this flyer. An augmentation procedure is indicated where the orofacial bone wall is less than 1.0 mm or missing on one or more sides.



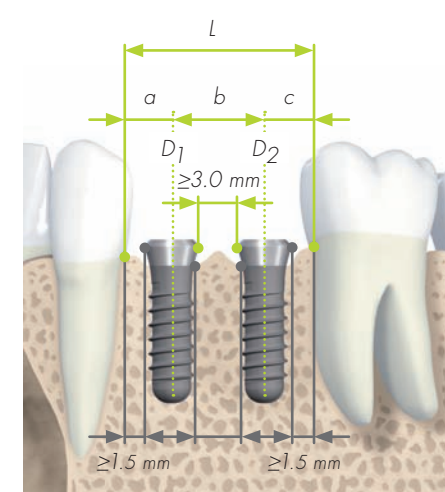
Bone layer at least 1.0 mm in thickness

CORONOAPICAL IMPLANT POSITION

The following illustration shows the coronoapical implant position for each of Straumann's implant lines.

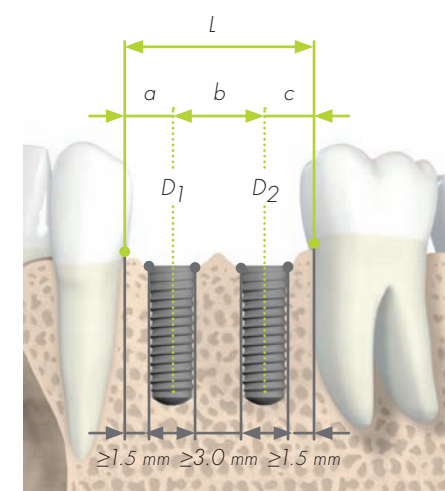


S/SP/TE IMPLANTS



Shoulder diameter D ₁ (mm)	Shoulder diameter D ₂ (mm)	a _{min} (mm)	b _{min} (mm)	c _{min} (mm)	L _{min} (mm)
Ø 3.5 (NN)	Ø 3.5 (NN)	3.0	6.5	3.0	12.5
Ø 3.5 (NN)	Ø 4.8 (RN)	3.0	7.0	4.0	14.0
Ø 3.5 (NN)	Ø 6.5 (WN)	3.0	8.0	5.0	16.0
Ø 4.8 (RN)	Ø 4.8 (RN)	4.0	8.0	4.0	16.0
Ø 4.8 (RN)	Ø 6.5 (WN)	4.0	8.5	5.0	17.5
Ø 6.5 (WN)	Ø 6.5 (WN)	5.0	9.5	5.0	19.5

BL IMPLANTS



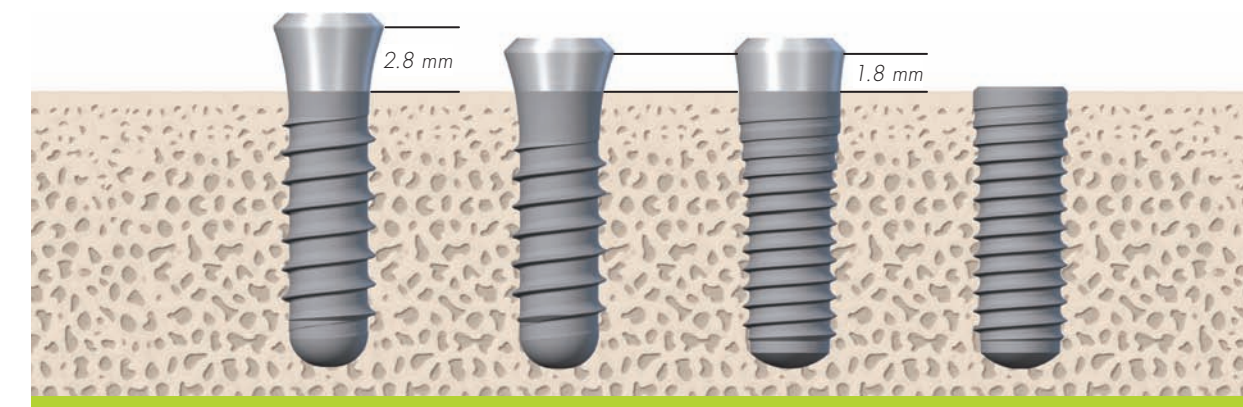
Implant diameter D ₁ (mm)	Implant diameter D ₂ (mm)	a _{min} (mm)	b _{min} (mm)	c _{min} (mm)	L _{min} (mm)
BL Ø 3.3	BL Ø 3.3	3.0	6.5	3.0	12.5
BL Ø 3.3	BL Ø 4.1	3.0	7.0	3.5	13.5
BL Ø 3.3	BL Ø 4.8	3.0	7.0	4.0	14.0
BL Ø 4.1	BL Ø 4.1	3.5	7.0	3.5	14.0
BL Ø 4.1	BL Ø 4.8	3.5	7.5	4.0	15.0
BL Ø 4.8	BL Ø 4.8	4.0	7.5	4.0	15.5

STRAUMANN® DENTAL IMPLANT SYSTEM IMPLANT SELECTION GUIDE



STRAUMANN'S IMPLANT PORTFOLIO

The Straumann® Dental Implant System offers four implant lines with diverse body and neck designs ranging from the classic soft tissue level to the bone level implant. All implants can be placed with one surgical kit and use similar surgical procedures.



Standard (S) Standard Plus (SP) Tapered Effect (TE) Bone Level (BL)

STANDARD Classic soft tissue level implant

Straumann® Standard implants feature a smooth neck section of 2.8 mm in height and are particularly well-suited for single-stage procedures, where the implant is placed at the soft tissue level and not covered with the soft tissue during the healing phase.

STANDARD PLUS For flexible placement

Straumann® Standard Plus implants consist of a smooth neck section of 1.8 mm in height that allows flexible coronoapical implant placement in combination with trans- or subgingival healing.

TAPERED EFFECT For immediate placement

Straumann® Tapered Effect implants have a special anatomical design, which combines a cylindrical shape in its apical region and a conical shape in the coronal region, making this implant particularly suitable for immediate or early implantation following extraction or loss of natural teeth.

BONE LEVEL Expertise at bone level

Straumann® Bone Level implants are suitable for bone level treatments in combination with trans- or subgingival healing. The implant's rough surface extends to the top of the implant and the connection is shifted inwards. The selection of healing components and temporary abutments available for the Bone Level implant are used to shape the soft tissues above the top of the implant, which is flush with the crestal bone.

STRAUMANN'S TRADITION OF INNOVATION

Straumann is the pioneer of innovative solutions for implant dentistry, including the introduction of the SLA® surface in 1994, the revolutionary SLActive® surface in 2006, and the technologically-advanced Roxolid® implant material in 2009.

SLA IMPLANT SURFACE

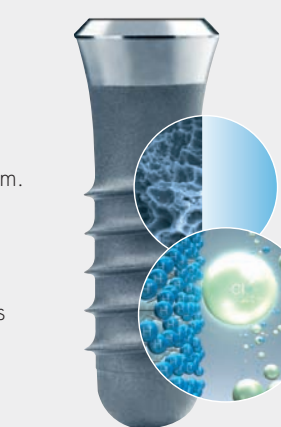
With unique characteristics such as double roughness treatment for greater bone-to-implant contact, the SLA surface is designed to allow loading in just six weeks after implant placement in healthy patients with sufficient bone quality and quantity.

SLACTIVE IMPLANT SURFACE

The SLActive surface takes the topography of the SLA surface to the next level through its enhanced surface chemistry. With the unique properties of hydrophilicity and chemical activity, SLActive accelerates the osseointegration process, allowing for shorter healing times of 3-4 weeks in appropriate clinical circumstances.*

ROXOLID IMPLANT MATERIAL

Roxolid is the first Titanium Zirconium alloy developed specifically for the needs of dental implantology. This unique material has higher tensile strength than pure titanium. Roxolid features higher fatigue strength and osseointegration when compared to Straumann SLActive titanium implants. Roxolid is available for Straumann implants with an endosseous diameter of 3.3 mm except NN, and offers greater confidence when placing small diameter implants.



*compared to SLA in an animal model

For more information regarding the surgical placement of Straumann implants, please refer to the brochure "Basic information on the surgical procedure with the Straumann Dental Implant System" (USLIT100).



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COMMITTED TO
SIMPLY DOING MORE
FOR DENTAL PROFESSIONALS™

RECOMMENDED APPLICATIONS FOR STRAUMANN IMPLANTS

Implant type	Applications and distinctive features	Minimal ridge width*	Minimal site width**				
Straumann® Standard and Standard Plus implants							
<table border="1"> <tr> <th>Standard</th> <th>Standard Plus</th> </tr> <tr> <td></td> <td></td> </tr> </table>	Standard	Standard Plus			<ul style="list-style-type: none"> Small diameter implant for narrow interdental spaces and ridges Caution: Placement in the molar region is not recommended for Ø 3.3 mm implants 	5.5 mm	5.5 mm
Standard	Standard Plus						
<table border="1"> <tr> <th>S Ø 3.3 mm RN</th> <th>SP Ø 3.3 mm RN</th> </tr> <tr> <td></td> <td></td> </tr> </table>	S Ø 3.3 mm RN	SP Ø 3.3 mm RN			<ul style="list-style-type: none"> Alternative in the case of a restricted ridge width In view of their lower mechanical strength compared to the Ø 4.1 mm implants, these implants should be used exclusively for the following situations: <ul style="list-style-type: none"> Edentulous jaw: 4 implants S/SP Ø 3.3 RN in conjunction with a bar construction Partially edentulous jaw: In the case of fixed reconstruction, combined with Ø 4.1 mm implants and splinted with a superstructure Caution: Placement in the molar region is not recommended for Ø 3.3 mm implants 	5.5 mm	7.0 mm
S Ø 3.3 mm RN	SP Ø 3.3 mm RN						
<table border="1"> <tr> <th>S Ø 3.3 mm RN Roxolid</th> <th>SP Ø 3.3 mm RN Roxolid</th> </tr> <tr> <td></td> <td></td> </tr> </table>	S Ø 3.3 mm RN Roxolid	SP Ø 3.3 mm RN Roxolid			<ul style="list-style-type: none"> Designed for cases with a restricted ridge width Caution: Placement in the molar region is not recommended for Ø 3.3 mm implants 	5.5 mm	7.0 mm
S Ø 3.3 mm RN Roxolid	SP Ø 3.3 mm RN Roxolid						
<table border="1"> <tr> <th>S Ø 4.1 mm RN</th> <th>SP Ø 4.1 mm RN</th> </tr> <tr> <td></td> <td></td> </tr> </table>	S Ø 4.1 mm RN	SP Ø 4.1 mm RN			<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients 	6.0 mm	7.0 mm
S Ø 4.1 mm RN	SP Ø 4.1 mm RN						
<table border="1"> <tr> <th>S Ø 4.8 mm RN</th> <th>SP Ø 4.8 mm RN</th> </tr> <tr> <td></td> <td></td> </tr> </table>	S Ø 4.8 mm RN	SP Ø 4.8 mm RN			<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients The S/SP Ø 4.8 mm implants are especially suited for wider interdental spaces and ridges 	7.0 mm	7.0 mm
S Ø 4.8 mm RN	SP Ø 4.8 mm RN						
<table border="1"> <tr> <th>S Ø 4.8 mm WN</th> <th>SP Ø 4.8 mm WN</th> </tr> <tr> <td></td> <td></td> </tr> </table>	S Ø 4.8 mm WN	SP Ø 4.8 mm WN			<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients The S/SP Ø 4.8 mm implants are especially suited for wider interdental spaces and ridges S/SP implants with a WN platform are designed for the reconstruction of teeth with a greater neck diameter 	7.0 mm	8.5 mm
S Ø 4.8 mm WN	SP Ø 4.8 mm WN						

S = Standard Implant, SP = Standard Plus Implant, NN = Narrow Neck Ø 3.5 mm, RN = Regular Neck Ø 4.8 mm, WN = Wide Neck Ø 6.5 mm

Implant type	Applications and distinctive features	Minimal ridge width*	Minimal site width**				
Straumann® Tapered Effect implants							
<table border="1"> <tr> <th>TE Ø 3.3 mm RN</th> <th>TE Ø 3.3 mm RN Roxolid</th> </tr> <tr> <td></td> <td></td> </tr> </table>	TE Ø 3.3 mm RN	TE Ø 3.3 mm RN Roxolid			<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients Alternative in dental gaps where the roots of adjacent teeth are close together, where implants with a greater endosteal diameter are contraindicated Caution: Placement in the molar region is not recommended for Ø 3.3 mm implants 	7.0 mm	7.0 mm
TE Ø 3.3 mm RN	TE Ø 3.3 mm RN Roxolid						
<table border="1"> <tr> <th>TE Ø 4.1 mm RN</th> </tr> <tr> <td></td> </tr> </table>	TE Ø 4.1 mm RN		<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients 	7.0 mm	7.0 mm		
TE Ø 4.1 mm RN							
<table border="1"> <tr> <th>TE Ø 4.8 mm WN</th> </tr> <tr> <td></td> </tr> </table>	TE Ø 4.8 mm WN		<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients The TE Ø 4.8 mm implants are especially suited for wider interdental spaces and ridges 	8.5 mm	8.5 mm		
TE Ø 4.8 mm WN							
Straumann® Bone Level implants							
<table border="1"> <tr> <th>BL Ø 3.3 mm NC</th> <th>BL Ø 3.3 mm NC Roxolid</th> </tr> <tr> <td></td> <td></td> </tr> </table>	BL Ø 3.3 mm NC	BL Ø 3.3 mm NC Roxolid			<ul style="list-style-type: none"> Small diameter implant for narrow interdental spaces and ridges Caution: Placement in the molar region is not recommended for Ø 3.3 mm implants 	5.5 mm	5.5 mm
BL Ø 3.3 mm NC	BL Ø 3.3 mm NC Roxolid						
<table border="1"> <tr> <th>BL Ø 4.1 mm RC</th> </tr> <tr> <td></td> </tr> </table>	BL Ø 4.1 mm RC		<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients 	6.0 mm	6.0 mm		
BL Ø 4.1 mm RC							
<table border="1"> <tr> <th>BL Ø 4.8 mm RC</th> </tr> <tr> <td></td> </tr> </table>	BL Ø 4.8 mm RC		<ul style="list-style-type: none"> For oral endosteal implant placement in the maxilla and mandible, for functional and esthetic rehabilitation of edentulous and partially edentulous patients The BL Ø 4.8 mm implants are especially suited for wider interdental spaces and ridges 	7.0 mm	7.0 mm		
BL Ø 4.8 mm RC							

TE = Tapered Effect Implant, RN = Regular Neck Ø 4.8 mm, WN = Wide Neck Ø 6.5 mm
 BL = Bone Level Implant, NC = Narrow CrossFit® Connection, RC = Regular CrossFit® Connection

* Sterile pack of 4
 * Minimal ridge width: Minimal orofacial ridge width, rounded off to 0.5 mm
 ** Minimal site width: Minimal mesial-distal site width for a single tooth restoration, between adjacent teeth, rounded off to 0.5 mm

IMPLANT RANGE

Implant overview	Straumann® Standard Implant				Straumann® Standard Plus Implant					Straumann® Tapered Effect Implant			Straumann® Bone Level Implant			
	S Ø 3.3 RN	S Ø 4.1 RN	S Ø 4.8 RN	S Ø 4.8 WN	SP Ø 3.3 NN	SP Ø 3.3 RN	SP Ø 4.1 RN	SP Ø 4.8 RN	SP Ø 4.8 WN	TE Ø 3.3 RN	TE Ø 4.1 RN	TE Ø 4.8 WN	BL Ø 3.3 NC	BL Ø 4.1 RC	BL Ø 4.8 RC	
Neck diameter																
Endosteal diameter	Ø 3.3 mm	Ø 4.1 mm	Ø 4.8 mm	Ø 4.8 mm	Ø 3.3 mm	Ø 3.3 mm	Ø 4.1 mm	Ø 4.8 mm	Ø 4.8 mm	Ø 3.3 mm	Ø 4.1 mm	Ø 4.8 mm	Ø 3.3 mm	Ø 4.1 mm	Ø 4.8 mm	
SLActive®	6 mm															
	8 mm	033.131S	033.031S	033.231S	033.631S	033.951S	033.151S	033.051S	033.251S	033.651S	033.721S	033.761S	021.2108	021.4108	021.6108	
	10 mm	033.132S	033.032S	033.232S	033.632S	033.952S	033.152S	033.052S	033.252S	033.652S	033.722S	033.762S	033.712S	021.2110	021.4110	021.6110
	12 mm	033.133S	033.033S	033.233S	033.633S	033.953S	033.153S	033.053S	033.253S	033.653S	033.723S	033.763S	033.713S	021.2112	021.4112	021.6112
	14 mm	033.134S	033.034S	033.234S		033.954S	033.154S	033.054S	033.254S		033.724S	033.764S	033.714S	021.2114	021.4114	021.6114
SLA®	6 mm															
	8 mm	043.131S	043.031S	043.231S	043.631S	042.930S	043.151S	043.051S	043.251S	043.651S	043.721S	043.761S	021.2408	021.4408	021.6408	
	10 mm	043.132S	043.032S	043.232S	043.632S	042.931S	043.152S	043.052S	043.252S	043.652S	043.722S	043.762S	043.712S	021.2410	021.4410	021.6410
	12 mm	043.133S	043.033S	043.233S	043.633S	042.932S	043.153S	043.053S	043.253S	043.653S	043.723S	043.763S	043.713S	021.2412	021.4412	021.6412
	14 mm	043.134S	043.034S	043.234S		042.933S	043.154S	043.054S	043.254S		043.724S	043.764S	043.714S	021.2414	021.4414	021.6414
Roxolid®	6 mm															
	8 mm	033.431S					033.451S				033.751S		021.2208			
	10 mm	033.432S					033.452S				033.752S		021.2210			
	12 mm	033.433S					033.453S				033.753S		021.2212			
	14 mm	033.434S					033.454S				033.754S		021.2214			
16 mm	033.435S															

CLOSURE SCREWS AND HEALING ABUTMENTS

FOR TISSUE LEVEL IMPLANTS					
Used with NN implants		Used with RN implants		Used with WN implants	
048.374		NN closure screw	048.371V4		RN closure screw, small
048.043		NN healing cap	048.373V4		RN closure screw, large
048.050		NN protective cap	048.033		RN healing cap, 2.0 mm
			048.034		RN healing cap, 3.0 mm
			048.037		RN healing cap, 4.5 mm
			048.028		RN healing cap, beveled, small
			048.029		RN healing cap, beveled, large
048.375		WN closure screw	048.038		WN healing cap, 2.0 mm
048.039		WN healing cap, 3.0 mm	048.053		WN healing cap, 4.5 mm
048.030		WN healing cap, beveled			

FOR BONE LEVEL IMPLANTS					
024.2100-04†		NC Closure Screw, H 0.0 mm	024.4100-04†		RC Closure Screw, H 0.0 mm
024.2105-04†		NC Closure Screw, H 0.5 mm	024.4105-04†		RC Closure Screw, H 0.5 mm
024.2222		NC Healing Abutment, conical, D 3.6 mm H 2.0 mm	024.4222		RC Healing Abutment, conical, D 4.5 mm H 2.0 mm
024.2224		NC Healing Abutment, conical, D 3.6 mm H 3.5 mm	024.4224		RC Healing Abutment, conical, D 4.5 mm H 4.0 mm
024.2226		NC Healing Abutment, conical, D 3.6 mm H 5.0 mm	024.4226		RC Healing Abutment, conical, D 4.5 mm H 6.0 mm
024.2242		NC Healing Abutment, conical, D 4.8 mm H 2.0 mm	024.4242		RC Healing Abutment, conical, D 6.0 mm H 2.0 mm
024.2244		NC Healing Abutment, conical, D 4.8 mm H 3.5 mm	024.4244		RC Healing Abutment, conical, D 6.0 mm H 4.0 mm
024.2246		NC Healing Abutment, conical, D 4.8 mm H 5.0 mm	024.4246		RC Healing Abutment, conical, D 6.0 mm H 6.0 mm
024.2234		NC Healing Abutment, bottle shape, D 3.3 mm H 3.5 mm	024.4234		RC Healing Abutment, bottle shape, D 4.4 mm H 4.0 mm
024.2236		NC Healing Abutment, bottle shape, D 3.3 mm H 5.0 mm	024.4236		RC Healing Abutment, bottle shape, D 4.7 mm H 6.0 mm
024.2270		NC Healing Abutment, customizable, D 5.0 mm	024.4270		RC Healing Abutment, customizable, D 7.0 mm

D = Diameter, H = Height