



Connecting bar profiles in the posterior teeth area: 16 mm<sup>2</sup>

To increase the stability of the construction, the height of the connector must be selected as large as clinically feasible.

Observe general statics and design guidelines provided by the machine manufacturer.

The milled / ground pieces have to be removed carefully without damaging Use a low number of revolutions and a minimum of pressure to avoid thermal damage. Ensure sufficient cooling.

The surface of the milled / ground pieces must be further processed and given a high polish like conventional composites.

**AMBARINO High Class Meso Block:**  
Geometric requirements:  
Please be sure to follow the implant manufacturer's instructions regarding the maximum height of the meso structure including the crown.

The meso-structure should be designed comparable to a preparation of a natural tooth. In general, sharp edges and corners should be avoided. Ceramic-friendly design! Circular step with rounded inner edges or groove, as well as the meso structure around the screw channel; at least 0.8 mm.

Occlusal wall thickness: at least 1.0 mm

Marginal step width: at least 0.4 mm

For self-adhesive attachment of the crown to the meso-structure, retentive surfaces and sufficient "stump height" must be created. The manufacturer's instructions must be followed. Strongly asymmetrical superstructures with extensive extensions are contraindicated for static reasons.

The crown width is therefore circularly limited to 6.0 mm in relation to the screw channel of the meso structure.

The surface of the milled / ground pieces must not be in the area of contact points or on surfaces that are functional for chewing, otherwise a 2-part abutment crown with a meso structure must be manufactured.

Closure of the screw channel with cotton wool and composite.

Contraindications: free-end fitting, parafunction (e.g. bruxism).

**Important:** Working AMBARINO<sup>®</sup> High-Class Discs / C-Blocks should always be performed with the intended machine templates in order to prevent over-heating of the material. Failing this, damage to the material can occur, which in turn can lead to deterioration of the physical properties.

**Tooth preparation:** A minimum axial reduction of 1.0 mm with a 3-5 degree taper and an incisal/occlusal reduction of at least 1.5 mm in the centric occlusion and all excursions is required. Shoulders must be extended to 1.0 mm lingual to the proximal contact area. All line angles should be rounded with no bevel lines.

**Inlays/Onlays** - A traditional inlay/onlay preparation design with no undercut is recommended. Taper the cavity walls 3-5 degrees to the long axis of the preparation. All internal edges and angles should be rounded. A minimum occlusal reduction of 1.5 mm in the centric occlusion and all excursions is required.

**Full Restorations** - A minimum axial reduction of 1.5 mm in the centric occlusion and all excursions is required. Shoulders must be extended to 1.0 mm lingual to the proximal contact area. All line angles should be rounded with no bevel lines.

**Laminate Veneers** - A standard reduction of the labial surface with approximately 0.4 to 0.6 mm is recommended. The reduction of the incisal labial-lingual angle should be 0.5-1.5 mm. Keep the preparation of the margins above the gingival tissues. Rounded shoulder or chamfer preparation with no undercuts should be used for all preparations.

**Surface treatment / modification:** Before further processing of the AMBARINO<sup>®</sup> High-Class restoration, such as colouring or veneering, the surface involved must be treated as a composite surface, which is to be repaired or corrected.

For this, we recommend initial powder-blasting of the surface or light abrasion with a milling tool.

Then, oil-free pressurised air should be used to remove the lightly adhering dust. An absolute anhydrous processing is important. Before further processing, it must be ensured that the surface is clean, dry and free of grease.

Then a composite bonding should be applied and light cured. Please consult the manufacturer's recommendations.

Do NOT fire for finishing or additional build up.

**Veneering:** The surface, activated as described under "Surface treatment / modification", can be veneered with conventional light-cured K+B composite. Please consult the manufacturer's recommendations.

**Attachment:** Cleaning - Clean the polished restoration in an ultrasonic cleaner or with a steam cleaner. Dry gently with an air syringe.

Contouring - Try the fit of the restoration to the preparation with light finger pressure. Adjust contacts and occlusion, contouring with the appropriate rotary instruments.

Before attachment the AMBARINO<sup>®</sup> High-Class restoration, the surface to be bonded must also be pretreated in the same manner as described under "Surface treatment / modification".

Adhesive light- or chemically-cured attaching material must be used when securing the restoration. Light curing is recommended.

When doing so, be sure to adhere to the User Information of the appropriate product manufacturer.

**Notes about storage:** This product must not be used if the patient is hypersensitive to one of the components, or should only be used under the strict supervision of the attending doctor / dentist.

In such cases, the composition of the medical device supplied by us can be obtained on request.

Known cross-reactions or interactions of the medical device with other materials already present in the mouth must be taken into consideration by the dentist during use.

**Troubleshooting list:**

Error	Cause	Remedy
Milling / grinding procedure delivers uneven results / surfaces	Use of the incorrect tool	Suitable tool (specially produced tools for hybrid materials)
Milling / grinding procedure delivers uneven results / surfaces	Incorrect choice of template	Check the templates and refresh if necessary
Milling / grinding procedure delivers uneven results / surfaces	Disc/C-Block not fitted planar in the clamp. Impurities in the clamp, wear to the tool	Remove the impurities, fit the Disc/C-Block planar in the clamp, replace tools
Work piece becomes hot	Tool rotation too great / fast	Observe the templates
Milling tool / grinder breaks off	Advance to too high / too great	Observe the templates

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Please supply the dentist with the above information, if this medical device is used to produce a special model.

Waste treatment methods: Smaller quantities can be disposed of with household waste.

Observe any existing safety data sheets for the product during processing.

**Explanation of symbols:**

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Temperature limits, storage temperature	
Article Number	REF
UDI Code (unique product identification)	UDI
Observe the Instructions for Use	
Date of expiration	
Lot-Number, Batch description	LOT
Medical device	MD
For USA only: To be used exclusively by dental technicians or dental professionals	Rx only
CE mark with identifying number of the notified body, DQS Medizinprodukte GmbH, Frankfurt	CE0297

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