

Technical Notes

Contour for Porcelain

The Alpha® Contour Blade, introduced several years ago for cutting curves in granite and other hard natural and engineered stones, is the blade of choice for hand curve cutting operations such as, performing sinkhole cut-outs. Now, with the introduction to the marketplace of 3cm porcelain slab, Alpha® has developed the Contour Blade for Porcelain. Due to the nature of porcelain, traditional diamond stone blades are not suitable for working on this material. Porcelain is a hard, dense, homogenous material that is prone to chipping, which can lead to fractures. Alpha® has designed a complete Porcelain Slab Fabrication System. The Alpha® Contour Blade for Porcelain is a key component to that system intended for working on porcelain without chipping or damaging the material. For the best performance, use the Alpha® Contour Blade for Porcelain on the new AWS-125 Wet Stone Cutter. The combination of the Alpha® Contour and the AWS-125 helps to assure the success of performing sink cut-outs without breaking the rim. While the Alpha® Contour Blade may be used wet or dry; due to the nature of porcelain, Alpha® Contour Blade for Porcelain must be used wet.

Sections:

- How to Use
- Frequently Asked Questions (FAQs)
- Helpful Hints
- Reference



Part No.	Size	Maximum RPM	Arbor
CCP005	5"	12,200	7/8"

How to Use

Attach the Alpha® Contour for Porcelain blade onto your Alpha® AWS-125 Wet Stone Cutter. Use the third flange provided with the Alpha® AWS-125 Wet Stone Cutter when mounting the Alpha® Contour for Porcelain onto this stone cutter to insure adequate clearance. (The Alpha® Contour for Porcelain blade can also be mounted onto high-speed angle grinders; however; these grinders must be equipped with a water supply since this Contour for Porcelain blade is a WET USE ONLY blade).

Alpha® recommends the step-cutting process; a total of three passes should be used to cut 3cm (1-1/4") thickness material. On the first pass you need to score the material 1/8" from the drawn template hole making sure you are scoring inside the template hole. On the second pass you should cut half-way through the material, and, on the third pass the blade should be cutting completely through the material.

Due to the manual operation, we recommend cutting 1/8" inside of mark of sink template to ensure good results.

Always refer to the operation manual of the power tool for correct mounting procedures.

Frequently Asked Questions (FAQs)

The Alpha® Contour for Porcelain is available in what sizes?

This blade is available in a 5" diameter only.

What is the arbor size if this blade?

The arbor size is 7/8".

What is the maximum RPM this blade should be used at?

The maximum RPM for this blade is 12,200. This blade should not be used at RPM lower than 9,000.

What is the purpose of the side protection segments on both sides of the blade?

These segments assist the blades cutting ability to cut curved areas cleanly as well as grind away material to make a wider kerf, allowing the blade to make tighter radiuses. They also prevent undercutting.

Can I use the Alpha® Contour for Porcelain for cutting granite or marble?

No. The Contour for Porcelain blade is only intended for use on the material for which it was designed. If you try to use this blade to cut marble or granite, you may experience a slow cutting ability since this blade is designed for cutting hard, dense porcelain slab material. This bond is not suited for cutting abrasive materials.

Can I plunge-cut using this blade attached onto the Alpha® AWS-125 Wet Stone Cutter?

Yes. When the Contour for Porcelain blade is mounted on the Alpha® AWS-125 Wet Stone Cutter, you can plunge cut with excellent control, since you can place the base of the stone cutter on the material to give you better stability.

Helpful Hints

- Use of water will prolong the life of your dry cutting blade as well as keep harmful dust (Silica) out of the air.
- Before you start using this product, we recommend practicing on scrap material to learn the necessary techniques required for the curve cutting application. This practice will make your cutting safer and enable successful results.
- Use the side handle attachment on the Alpha® AWS-125 Wet Stone Cutter for better stability when using this tool for curve cutting applications.
- Due to the manual operation, we recommend cutting 1/8" inside of mark to ensure good results.
- We recommend the step cutting method to prolong the life of the diamond blade.
- When you attempt tight corners, you must take the time to grind a wider kerf to make enough clearance for the blade.
- We recommend using the Alpha® Profiler Z-Series after you cut a sink hole using the Alpha® AWS-125 Stone Cutter. The curve cutting application leaves a curved cut surface from the design of the contour blade. The Profilers Z will clean up this leftover material to create a perfect 90 degree surface.
- To avoid dropping the cut-out on your feet, always secure the projected cut-out area before starting cutting operation.
- Use flanges and adapters which are specifically made for your power tool.
- Do not use Alpha® Contour blades on high-speed angle grinders without the safety guard installed.
- Always wear personal safety equipment when using Alpha® Contour for Porcelain

Reference

For more product information, visit us on the web at www.alpha-tools.com.