

Technical Notes

Profiler Z-Series

Alpha® Contour blade together with the AWS-125 Stone Cutter allows fabricators to cut a sink hole along the cut line quickly and safely. In order to shape the edge to a desired profile, Alpha® introduces the Profiler Z-Series, Vertical Grinding Wheels. Profiler Z-Series is also known as Zero Tolerance or Drum Grinding. Most competitive products use sintered bond which eventually changes the shape of the wheel distorting the vertical edge. Using our Profiler Z-Series maintains a very aggressive cutting performance and its original shape for a long time. We recommend this Vertical Grinding Wheel along with a Corner Ruler to make uniform exterior corners.

Sections:

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Part No.	Size	Maximum RPM	Arbor	Shape
PFZ301	3cm	3,500	5/8"-11 Threaded	Straight
PFZ401	4cm	3,500	5/8"-11 Threaded	Straight

How to Use

Press nylon guide down firmly on top of material and turn on polisher. Always apply sufficient downward pressure to prevent nylon guide from spinning. (Nylon Guide should not "Spin Freely" during operation). The purpose of the nylon guide is to ensure the Alpha® Profiler remains at the proper height so the profiled edge remains straight. The ball bearing/rotary touchier within the Alpha® Profiler will control the depth of the grinding action to ensure that the profiled edge remains straight and consistent. The application is complete when the operator no longer hears a grinding noise, and the run-off water is clear.

Frequently Asked Questions (FAQs)

What materials can the Alpha® Profilers be used on?

The Alpha® Profilers may be used on the following materials: Granite, Engineered Stone, Porcelain, Marble and Limestone.

Is the Alpha® Profiler used wet or dry?

All Alpha® Profilers are to be used for wet applications only.

Can I use the Alpha® Profilers on a high-speed grinder?

No. Alpha® Profilers may not be used on high-speed grinders due to high RPM speed and no internal water-feed supply. The maximum RPM for the Profilers is 3,500 RPM and our Profiling Wheels are designed for low RPM wet polishers such as the Alpha® pneumatic polisher (AIR-658) and our Alpha® electric water-feed polisher (AWP-158 & VSP-110) which have the optimum RPM range for using the Profilers. Also, an external water-feed system is not recommended since this will not distribute water evenly onto the Profiler during profiling applications.

How does the Profiler give you a straight line across surface of material?

The ball bearing/rotary touchier within the Alpha® Profiler controls the depth of grinding during application to ensure that the final profiled edge will be straight. NOTE: Profiling is complete when the operator no longer hears a grinding noise, and when the run-off water is clear.

What applications are the Alpha® Profilers recommended for?

Alpha® Profiler Z-Series

- Z-30 or (PFZ301) is designed for vertical grinding of 2cm or 3cm material.
- Z-40 or (PFZ401) is designed for vertical grinding of 4cm material.

Sink Bowl: We recommend using the Profiler Z-Series after you cut a sink hole using the Alpha® AWS-125 Stone Cutter. This application will leave a curved cutting surface which is due to the design of the contour blade. The Profilers Z-Series will clean up this leftover material to create a perfect 90 degree surface.

For Rounded Corners, we recommend using the Alpha® Profiler Z-Series together with an Alpha® Corner Ruler to create uniform straight or radius exterior corners.

Can I purchase this nylon guide separately and replace my old worn out guide?

Yes, you may purchase this nylon guide through the Authorized Distributor of Alpha® Products where you purchased your Alpha® Profiler. The part # for this nylon guide is: PFBNG01.

What keeps the Profiler from dipping?

The nylon guide will keep the Profiler from dipping during application. Pressing the nylon guide down firmly on the top of the material while having the operator keep this guide flat and level to the surface of the stone, will ensure that the Profiler will not dip during application.

What is the life expectancy of the Alpha® Profiler?

The life of the Profiling Wheel will vary depending on the different classifications of granite hardness. Our Profilers achieve very long life and have fast grinding action due to the "Vacuum Brazed Technology". Vacuum Brazed diamonds give you aggressive grinding action and longevity, without losing the shape of the profile, unlike Direct Sintered profilers on the market.

Can Alpha® Profilers be used on concrete?

The Alpha® Profilers can be used on concrete; however, due to the abrasive nature of concrete, life of the wheel will be extremely short.

Can I use the Alpha® Profilers on a Park Industries Wizard/Deluxe machine?

Yes, the Alpha® Profilers can be used on these machines since the spindles are 5/8"-11 threaded. The maximum RPM range for the main spindles on these machines is 3,500.

Can I use the Alpha® Profiler PFZ401 on 2cm (3/4") thick material?

To obtain the optimum life of the Alpha® Profiler Z-Series we recommend you choose the profiler most suitable for the material thickness. Profiler PFZ301 should be used for 2cm (3/4") and 3cm (1-1/4") thick material and the PFZ401 should be used for 4cm (1-1/2") thick material.

To obtain more life out of your Alpha® Profiler Z after creating a sink bowl cut-out using the Alpha® AWS-125 Stone Cutter we suggest the following:

This application leaves a curved surface due to the design of the contour blade; the Profilers Z will clean up this leftover material to create a perfect 90 degree surface.

To obtain maximum life out of the Alpha® Profiler Z we recommend grinding the leftover material using the very bottom of the Profiler Z wheel. When you grind using the very bottom diamonds of the wheel, the nylon guide of the profiler will be raised off the surface of the material and you will have no guides touching the material (nylon guide or ball bearing/rotary touchier). After you remove the leftover material from the contour blade, proceed back to the normal operational instructions of the Alpha® Profiler Z-Series to complete your application.

Helpful Hints

- Use of a C-Shape handle is recommended for this application. Alpha® Profilers are WET USE ONLY for LOW-SPEED applications. Do not allow the nylon guide to free-spin during application as scratches on the surface of material may occur from slurry residue. The Alpha Professional Tools® logo on the nylon guide should be clearly displayed during profiling application when using the Alpha® Profiler correctly.
- Use plenty of water during application. Use of water will flush away excess slurry from surface.
- For proper use of the Alpha® Profilers, see attached "How To Use".
- Use of a Plexiglas template mounted on top of a sink bowl cut-out will assure a smooth ripple-free edge. The Profiler's ball bearing/rotary touchier will follow the Plexiglas while the vacuum brazed diamonds of the profiler will grind away the excess stone material to achieve a consistent desired shape when using the Alpha® Profiler Z Series.

Reference

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