

Technical Notes

Porcellana for Portable Rail Saw

Alpha® Porcellana is our premium wet cutting blade designed for use by tile professionals. The diamond grits and matrix are specially formulated to cut granite, marble, engineered stone and porcelain tile with minimal chipping. The Alpha® Porcellana produces high quality cuts that will minimize waste and improve your bottom line. The 10" blade is equipped with a 10mm continuous rim, which provides for a long cutting life. The blade never needs dressing, which improves operator performance and efficiency. All these features combined make the Alpha® Porcellana quite cost-effective. When cutting with the portable rail saw, with a 1" arbor, the Alpha® Porcellana is clearly the best choice for tile contractors.

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Part No.	Size	Maximum RPM	Arbor
PT0801	8"	7,400	1", 7/8", 5/8"
PT1001	10"	5,900	1"

How to Use

Attach the Alpha® Porcellana blade on your portable rail saw making sure that the directional arrows on the blade and spindle match the rotation of your power tool. Adjust the depth of your cut; generally, if the blade is 1/8" below the material you are cutting, this is sufficient. Make sure your saw has an ample supply of water for cooling the blade during application. Turn on power and slowly pull the blade into the material maintaining a consistent slow traverse speed until you cut through the entire piece of material. A slow consistent pulling motion will allow the diamonds within the blade's cutting edge to cut the material easily and minimize chipping on the edge.

Frequently Asked Questions (FAQs)

Which way do I install the blade on my tool?

Blade directional arrows are printed on the front of the blade. Install the blade so that the rotation of the blade will follow this direction. If the front of the blade is no longer legible, a directional arrow is embossed into the back of the blade. As a last resort, examine the diamonds. The bond tail behind each diamond should be pointing the opposite direction of blade rotation. If the blade is installed incorrectly, the bond tails will reverse direction, which may cause some premature wear.

What materials can I cut with the Alpha® Porcellana blade?

The Alpha® Porcellana is primarily designed for use on porcelain materials. In addition, it performs well on Ceramic, Marble, Granite and Engineered stone.

Can I cut Onyx with the Alpha® Porcellana blade?

Yes. You can cut Onyx using the Porcellana blade. We also recommend the Alpha® Vetro blade designed for glass application for cutting Onyx. The diamonds on the Alpha® Vetro blade are finer and will minimize the chipping on the edge.

On what tools can I use the Alpha® Porcellana for Portable Rail Saw blade?

This blade is designed to only be used on portable rail saws due to the engineering design of the blade.

Can I use this blade for dry application?

No. Wet cutting diamond blades must be used with water to prevent excessive heat build-up during cutting. Using water on the blade also reduces dust and helps enhance the cutting performance and life. A continuous water flow is critical. Using "wet" blades without water even for a few seconds will cause excessive heat and blade damage.

The speed of my cut is slowing down. What can I do to improve it?

The diamonds are rounding over or glazing causing the blade to lose its cutting ability. You need to re-dress the blade using a soft abrasive material such as a dressing stone or a concrete block.

Can I use this blade for cutting metallic glazed porcelain?

No. Alpha® recommends using the Alpha® Metalgres tile blade which is specifically designed for cutting this metallic material.

What is the maximum RPM at which I can use the Alpha® Porcellana for Portable Rail Saw blade?

The maximum RPM at which you can use the blade is 5,900 RPM.

What is the arbor size of the Alpha® Porcellana blade for Portable Rail Saws?

See chart on Page 1.

Helpful Hints

- Do not force the blade to cut; allow the diamonds time to cut through the material. Slower cutting helps eliminate chipping on the cut edge.
- For thick materials (3cm or 1-1/4"), step-cutting is highly recommended.
- Wet cutting is required.
- Take appropriate steps to assure personal safety when performing any cutting application.
- Review operations manual of the power tool to assure proper usage.

Reference

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