

## Technical Notes

### Marble Profile Wheel

The Alpha® Marble Profile Wheel is designed to profile and cut marble tile in one pass, unlike most profile wheels that only perform the profile action. The 6" wheel, which fits tub and tile saws, has been a popular item with tile installers for years. They have found it to be the ideal tool for cutting and profiling tile baseboards. The long life and smooth cutting action are two other reasons for its popularity. With the introduction of the AWS-110 Wet Stone Cutter, Alpha® recognized an opportunity to create a more portable solution for transport to the job site and created the 3" wheel. The 3" size allows for better positioning of the saw handle, which leads to improved performance by reducing operator fatigue. Both wheels utilize the same high quality diamonds and matrix best suited for wet cutting marble and agglomerated marble tile. Use the Alpha® Marble Profile Wheel to cut and profile in one pass to save time, money and reduce waste.

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Part No.	Size	Maximum RPM	Arbor
DPM338	3"	15,000	20mm
DPM638	6"	10,100	5/8"

### How to Use

1. Attach the Alpha® Marble Profile Wheel onto the Alpha® AWS-110 Wet Stone Cutter. The product label will be facing out when mounted correctly onto the Stone Cutter.
2. Attach the Guide Ruler accessory of the Alpha® AWS-110 Stone Cutter so the ruler is mounted to follow a straight edge guide. Choose your straight edge material (I.E. angle iron) making sure the straight edge is thick enough to prevent it from sliding underneath the Guide Ruler. Measure the distance from your straight edge to the intended cut. Use this measurement from the outside wall of the Guide Ruler to the Alpha® Marble Profiler Wheel. Tighten the wing nuts to secure the Guide Ruler in place.
3. Adjust the height of Alpha® Marble Profile Wheel so the wheel doesn't cut and grind below the surface of the material.
4. Secure work piece onto the table next to straight edge guide.
5. Align the Guide Ruler of AWS-110 Alpha® Wet Stone Cutter with the straight edge and proceed to profile by pushing the Marble Profile Wheel into the material. Profile slowly allowing the Guide Ruler to follow the straight edge to ensure a perfectly straight profile on the stone material.

### Frequently Asked Questions (FAQs)

#### Can I use the Alpha® Marble Profile Wheel on hard materials such as granite or porcelain?

No. The Alpha® Profile Wheel for Marble is constructed with electroplated diamonds on the outer edge of the wheel. If hard material such as granite or porcelain is used, the outer edge will wear faster and the life of the wheel will be very short. To create a 3/8" profile on granite or porcelain we recommend using the Alpha® Profiler Series.

#### Can the Alpha® Marble Profile Wheel be used dry?

No. The Alpha® Marble Profile Wheel for Marble must be used WET. Using this wheel dry will cause the electroplated diamonds to overheat and shorten the life of this wheel.

#### Can this wheel be used on a hand-held grinder?

No. This wheel is designed to be used on stationary machines such as the Alpha® AWS-110 Wet Stone Cutter.

**Will the Alpha® Marble Profile Wheel fit onto the Alpha® AWS-125 Wet Stone Cutter?**

No. The Alpha® Marble Profile Wheel has a 20mm arbor and the AWS-125 Wet Stone Cutter has a 7/8" arbor flange size. Alpha® recommends using the Alpha® Marble Profile Wheel together with the AWS-110 Wet Stone Cutter which has a 20mm arbor flange size.

**What is the maximum RPM at which the Alpha® Marble Profile Wheel can be used?**

See chart on Page 1.

**What is the life expectancy of the Alpha® Marble Profile Wheel?**

Due to the many different types of marble, it is impossible to accurately gauge the life of this wheel. However, we have been told by many satisfied customers that the life is surprisingly long.

**What size material will this wheel profile?**

This wheel is designed to cut and profile 3/8" marble tile. Do not try to profile anything over 3/8" thick.

**Helpful Hints**

- Attach felt strips to the base plate of the AWS-110 Wet Stone Cutter to avoid scratching the material being profiled.
- Use plenty of water during application. Use of water will flush away excess slurry from surface.
- Adjusting the height of the wheel: Always perform a test with a sample piece of marble for proper height measurements prior to attempting to use the stock material. (12 X 12 marble varies in thickness, depending on the source).
- The Marble Profile Wheel should only be used to grind marble in a forward direction. After the marble passes through the profile wheel, shut-off the motor and then slide the tile back towards the original starting location. Keep your fingers clear at all times.
- Make sure marble is secured to the table. If the marble work piece moves on table while cutting, the shape of the profile will be altered. Use clamps to reduce vibration and to keep the cut square.
- While profiling, keep the slide table moving consistently through the blade. Stopping the stone while profiling, will cause waves on the bullnose.
- Use Alpha® PVA "Quick Change/Makita Style" or Sandpaper to polish for dry applications.
- Use Alpha® Ceramica EX to polish for wet applications.

**Reference**

For more product information, visit us on the web at [www.alpha-tools.com](http://www.alpha-tools.com).