

## Technical Notes

### Sonic

Alpha® Sonic blade is a high quality, general-purpose tile blade designed for the clean, easy and efficient cutting of ceramic tile without chipping or causing damage to the tile. Alpha® Sonic fits on most common tub or tile saws. Tile contractors that deal with ceramic tile will find that Alpha® Sonic provides them with a well designed, cost efficient diamond blade that easily adapts to either shop or field work. Although Alpha® Sonic is made specifically for wet cutting applications, the 4" and 4-1/2" Alpha® Sonic may be used dry and will fit on most popular angle grinders and wet stone cutters. For a portable wet-cutting solution, use the 4" and 4-1/2" blades on the Alpha® AWS-110 or AWS-125 Wet Stone Cutter. Its heavy-duty and balanced construction make Alpha® Sonic the best choice for cutting ceramic tile.

#### Sections:

- How to Use
- Frequently Asked Questions (FAQs)
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Part No.	Size	Maximum RPM	Arbor	Depth Of Cut
TS04AL	4"	14,500	20mm, 5/8"	1"
TS05AL	4-1/2"	13,200	7/8", 20mm	1-1/4"
TS06AL	6"	10,100	5/8"	1-3/4"
TS07AL	7"	8,400	5/8"	2-1/4"
TS08AL	8"	7,400	5/8"	2-3/4"
TS10AL	10"	5,900	5/8"	3-3/4"
TS12AL	12"	6,200	1"	3-5/8"
TS14AL	14"	4,365	1"	4-5/8"

### How to Use

Attach the Alpha® Sonic blade onto your tub saw or tile saw making sure that the blade's directional arrows match the spindle 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 power tool has ample supply of water for cooling the blade during application. Turn on the power of your tub or tile saw and slowly push the blade into the material, maintaining a consistent slow traverse speed until you cut through the entire piece of material. A slow consistent pushing motion allows 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?

The blade direction is printed on the front of the blade. Install the blade so that 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® Sonic blade?

The Alpha® Sonic blade is designed as a general purpose blade for ceramic, marble and slate tiles.

#### The speeds of my cuts are 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. After you re-dress the blade you will notice the blade's performance has improved since the diamonds are fully exposed once again.

**Can I use this blade for dry application?**

Yes and No. The Alpha® Sonic 6", 7", 8", 10", 12" and 14" blades are wet cutting tile blades. These blades must be used wet.

The Alpha® Sonic 4" and 4-1/2" blades may be used DRY and will fit most popular angle grinders and the Alpha® AWS-110/AWS-125 stone cutters.

**What is the maximum RPM on which I can use the Alpha® Sonic blades?**

See chart on Page 1.

**Can I use the Alpha® Sonic tile saw blades on a portable rail-saw?**

No. The Alpha® Sonic tile saw blades are engineered for use on tub & tile saws. Using a rail-saw changes the concept of the blade's cutting ability and most likely will stop cutting after a period of time. The concept of these rail-saws is to pull the blade into the material your cutting; tub & tile saws concept is pushing the material into the blade. The Alpha® Sonic blade is designed for the pushing concept.

**What is the arbor size of the Alpha® Sonic blades?**

See chart on Page 1.

**What is the maximum blade cutting depth of the Alpha® Sonic blades?**

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.
- Wet cutting is required for tub saw/tile saw applications.
- 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](http://www.alpha-tools.com).