

Vetro Blade

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Alpha Professional Tools developed the **Alpha Vetro** Blade for use on the Makita 4101RH Circular Saw to cut thick glass. Designed specifically for wet cutting of glass, the **Alpha Vetro** features quick cutting speed leaving a perfectly prepared edge ready for polishing by the Alpha EdgeCrafter or other suitable means. Due to its cutting performance it can also be used on thinner glass for inside corner cuts. In addition, the **Alpha Vetro** performs very well on porcelain ceramic tile. The **Alpha Vetro** gives the user excellent cost performance. For fast and consistent performance with minimal chipping on glass, use the **Alpha Vetro** wet cutting blade.

How To Use:

1. Read directions on packaging thoroughly.
2. Attach your Alpha Vetro blade to your Makita 4101RH saw per the instruction manual. Make sure that the flange is securely tightened. Make sure that the rotation arrow on the blade follows the saw.
3. Always inspect the blade prior to use. Take care to ensure that the blade is safe to use.
4. Set up your work piece properly and secure it with clamps or the Alpha VHS-5C vacuum hold down system.
5. Connect a water supply to the Makita 4101RH saw. Turn the water on prior to cutting. **The Alpha Vetro Requires Water!**
6. Begin the cutting process. Be sure to take your time and allow the blade to cut.
7. When finished, remove the blade from the saw, reinspect it for any damage and place it in a safe location.

Common Questions:

Why should I use the Alpha Vetro on my Makita 4101RH?

The blade that the Makita 4101HR comes with is suitable for general purpose use. The Alpha Vetro is specifically designed for glass cutting applications with the best results and minimal chipping.

My blade seems to be slowing down. Why?

The bond matrix of the blade has become dull. Dress it with a dressing stone until the diamonds become exposed again. With glass it is very important that you take your time and allow the blade to cut. Do not force the blade as it will only slow down the cutting ability and possibly cause cracking and / or chipping. Make sure that you have a good water supply and that water is flowing properly over the blade.

Can I use the Alpha Vetro on a different type of saw?

The Alpha Vetro can only be used on saws that run at 13,000 RPM and have an appropriate water feed system.

Can I use the Alpha Vetro dry?

No, you must have water to cool and lubricate the Alpha Vetro during cutting.

What is the maximum cutting depth of the Alpha Vetro?

At 90 degrees the maximum cutting depth is 1-3/8 inches. At 45 degrees it is 13/16 of an inch.

The edge of the glass seems to chip excessively during the cut. What can I do to prevent this?

Examine your blade carefully before cutting. Check for abnormalities on the peripheral edge. Make sure the blade is installed on the saw correctly and the flange is securely tightened. Make sure the saw has an RPM rating of max. 13,000. Using a saw with significantly lower RPM (9000 RPM or less) will contribute to excessive chipping. Lastly, make sure the water feed is on and the blade has plenty of water. The bond matrix may be glazed and require dressing with an abrasive material.

I took all of these precautions but I am still experiencing excessive chipping. What do I do now?

The problem at this point is either related to the user or the glass itself. Examine the glass thoroughly. Check for small hairline fractures near the top or bottom of the glass. If they are present, this is causing chipping. If not, slow down the speed of the cut. It is possible the blade is being forced to cut which would cause additional chipping. Allow the diamonds time to work and pull the blade through the material.

Helpful Hints:

1. Always select the right blade for the job. Do not use the Alpha Vetro on materials other than glass or porcelain ceramic tile.
2. Always follow the safety recommendations on the blade, the packaging and from the manufacturer of the saw.
3. Inspect the blade prior to each use for dangerous conditions such as warping, cracking, overheating or glazing. After you finish cutting with your blade, reinspect it for these conditions. If using for prolonged periods, stop frequently and reinspect the blade to ensure safe operation.
4. Make sure your blade is properly mounted and the flange secured tightly. Clean the flanges after each use to prevent debris from causing an improperly mounted blade.
5. Take care to properly maintain your saw. Blades run on saws with poor performance levels due to improper maintenance tend to wear out quicker.