



SYNTHESIS CUTTING KIT INSTRUCTIONS

This Synthesis Cutting Kit includes an assortment of recommended blades, bits and tooling for use in modifying, trimming and scribing Synthesis wall panels. Core bits are provided in the most common sizes. Your installation may require additional tooling that is not included in this Kit.

All tools are for use with an electric angle grinder with a 5/8-11 arbor. Variable speed and minimum 13amps recommended.

Introducing water to the cutting process will not only protect your health but will also significantly extend the life of the tooling.

WARNING

Porcelain contains crystalline silica. Dry-cutting Synthesis panels may produce respirable silica dust which, with long-term exposure, is known to cause silicosis, an irreversible but preventable lung disease, and may also cause other serious diseases including lung cancer. Always cut Synthesis wall panels with water and wear a safety mask approved for silica dust.

Cutting a Panel

1. Carefully lay out the location of your cut on the face of the panel and mark the line with a pencil.
2. Apply painters' tape on the PANEL SIDE of the line with the edge of the tape aligned with your pencil line.
3. Use your angle grinder to cut the panel approximately 1/16" away from the edge of the tape.
4. Use the angle grinder base attachment and polishing pad to grind the edge back to the tape line. This method will remove any small chips that may have occurred and result in a perfectly smooth and even cut.



Using the Core Bits

1. Carefully mark the location of your hole on the face of the panel with a pencil.
2. Apply a painters' tape square around the hole that was marked.
3. Use your angle grinder with the core bit at an angle to start your initial hole.
4. Once the hole is started slowly rotating the grinder until the bit is flush with the panel.
5. Apply equal pressure when drilling your hole.

Pro Tips

1. Never lay the core bit flat to the panel when starting a hole, it will naturally want to slide across the face of the panel ruining the finish.

2. By applying water to this process, it will keep your bit from overheating and lengthen the life of the bit.

Using the Finger Bit

The finger bit can be used to create a non-circular cutout or to scribe around drip edges and other irregularly shaped items. Simply mark the location and shape of the cutout with a pencil and use the bit to grind back to the line.