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## Important Characteristics of Natural Stone

Stone is a natural material with random natural defects in any given piece. Cracking can occur due to these defects alone. Moreover, cracks can occur when pre-existing weak points are subjected to additional stresses or forces. Mechanical forces caused by poor support, joints in the support structure that shift, and weight distribution will cause excess stress on the stone. Heat differentials that cause one portion of the stone to try to expand while other portions try to remain fixed will cause excess stress. This localized heating can come from a number of sources:

- a. Heat lamps above the stone
- b. Heat generated by equipment below the stone
- c. Heat from hot items placed on top of the stone

In extensive testing conducted by CookTek, no natural stone was found to interfere with the performance of the wireless communications, or absorb excess heat from the electromagnetic induction waves associated with its Incogneeto™ and Magneeto 2™ equipment.

## Design Considerations When Using Incogneeto™

- Any temperature gain that occurs inside the cabinet where an Incogneeto™ is mounted contributes to heating the stone. Keeping the inside of the cabinets as close to room temperature as possible will therefore reduce stress on the stone. Cabinets with poor or insufficient ventilation will increase the stress on the stone.
- Tensile strength of natural stone is proportional linear with thickness: 20 mm stone is  $\frac{1}{3}$  thinner than 30 mm stone, so that resistance to cracking is also reduced by  $\frac{1}{3}$ . Applications with prolonged intensive use are better served with 30 mm stone above Incogneeto™ units.
- 30 mm thick natural stone dissipates heat much better than 20 mm, resulting in lower maximum temperatures. For prolonged intensive use application, thicker stone is more durable.
- The stone is not generally heated by the induction waves, but some heating will occur from radiation back from a hot pan. The stone around the portion that is heated from radiation provides the mechanical strength “buffer” to help prevent fractures. Allowing as much stone around the edge of the Incogneeto™ as possible will improve the strength of the whole system.

## Best Practices Design Guidelines for Installation Under Natural Stone

It is recommended that natural stone over the Incogneeto™ be 30 mm thick in high-use applications. Synthetic or “engineered stone” at 20 mm is acceptable over the Incogneeto™ in all applications. (Note: 20 mm tops in any material also require plywood substrate.) It is further recommended that cabinets be built with sufficient ventilation to keep the interior compartment as close to room temperature as possible.

At least 8 inches (203 mm) of additional stone surface should be allowed from the edge of the Incogneeto™ location to the final edge of any piece of stone. Extra care should be taken to not have mechanical seams in the cabinet support near the Incogneeto™. Additionally, heat lamps should not be used above Incogneeto™ units, unless they are interlocked to prevent heating when a pan is not present.

If you have any questions, contact Customer Service at 214-379-6000, option 1 or email [customerservice@turbochef.com](mailto:customerservice@turbochef.com)

**SURFACES THAT CAN BE USED**

SYNTHETIC / ENGINEERED STONE*	
BRAND	MATERIAL COMPOSITION
Caesarstone	Quartz
Silestone	Quartz
Cambria	Quartz
Okite	Quartz
Santa Margherita	Quartz
Santa Margherita	Marble
Technistone	Quartz / Granite / Sand
Viatera	Quartz
Zodiaq	Quartz
Granite Transformations	Quartz / Granite / Sand
IceStone	Recycled Glass and Cement
Concetto	Gray Agate / Ice Quartz / Amethyst
NATURAL STONE*	
Granite	
Marble	
Soapstone	
Quartzite	
Slate	
Limestone	
Quartz	
*Engineered Granite	See Above
*Engineered Stone	See Above
*Engineered Marble	See Above

**SURFACES THAT CANNOT BE USED**

SOLID-SURFACE COUNTERTOPS ARE A BLEND OF ACRYLIC OR POLYESTER RESIN, POWDERED FILLERS AND PIGMENTS, CAST INTO SLABS	
BRAND	MATERIAL COMPOSITION
DuPont Corian	Acrylic / Polyester Resins
LG HI-MACS	Acrylic / Polyester Resins
Wilsonart	Acrylic / Polyester Resins
Formica	Acrylic / Polyester Resins
Durat	Acrylic / Polyester Resins
Staron	Acrylic / Polyester Resins
Livingstone	Acrylic / Polyester Resins
Swanstone	Acrylic / Polyester Resins

Measure the countertop thickness where the unit will be installed (Figure 1). The top of the unit must be 38 to 42 mm (1.5" to 1.65") from the top of the counter.

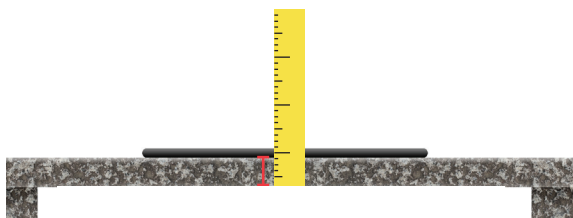


Figure 1: Measuring the Countertop Thickness

## Mounting the Unit

The unit mounts in a square frame (supplied) underneath the counter. The frame is screwed into plywood, or narrow plywood strips (1¼" (30 mm) countertop thickness only), which are glued onto the stone, or stone's backing. No drilling or cutting of the stone is required.

### ¾" (20 mm) Stone Countertop

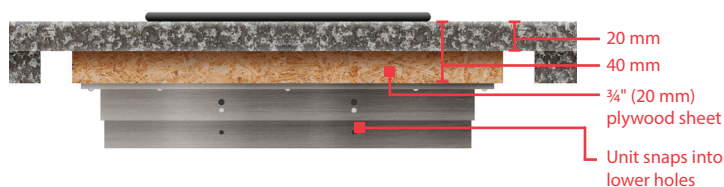


Figure 2: Incogneeto™ Unit Mounted to ¾" (20 mm) Countertop with Plywood Sheet

NOTE: ¾" (20 mm) countertops must be installed with a plywood sheet.

### 1¼" (30 mm) Stone Countertop

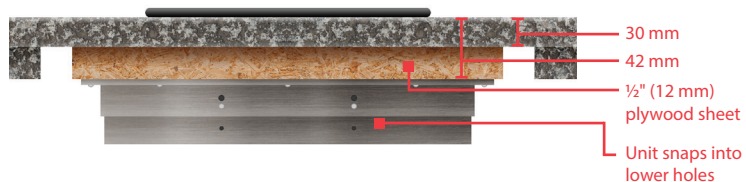


Figure 4: Incogneeto™ Unit Mounted to 1¼" (30 mm) Countertop with Plywood Sheet



Figure 3: Incogneeto™ Unit Mounted to 1¼" (30 mm) Countertop with Two Plywood Strips

## Installing the Unit

Attach the mounting frame to the wood sheet or strips with ½" wood screws. Make sure the frame is mounted square as shown in Figure 4. Next, snap the Incogneeto™ unit into place (Figure 5.)

For assistance, call 1.800.908.8726

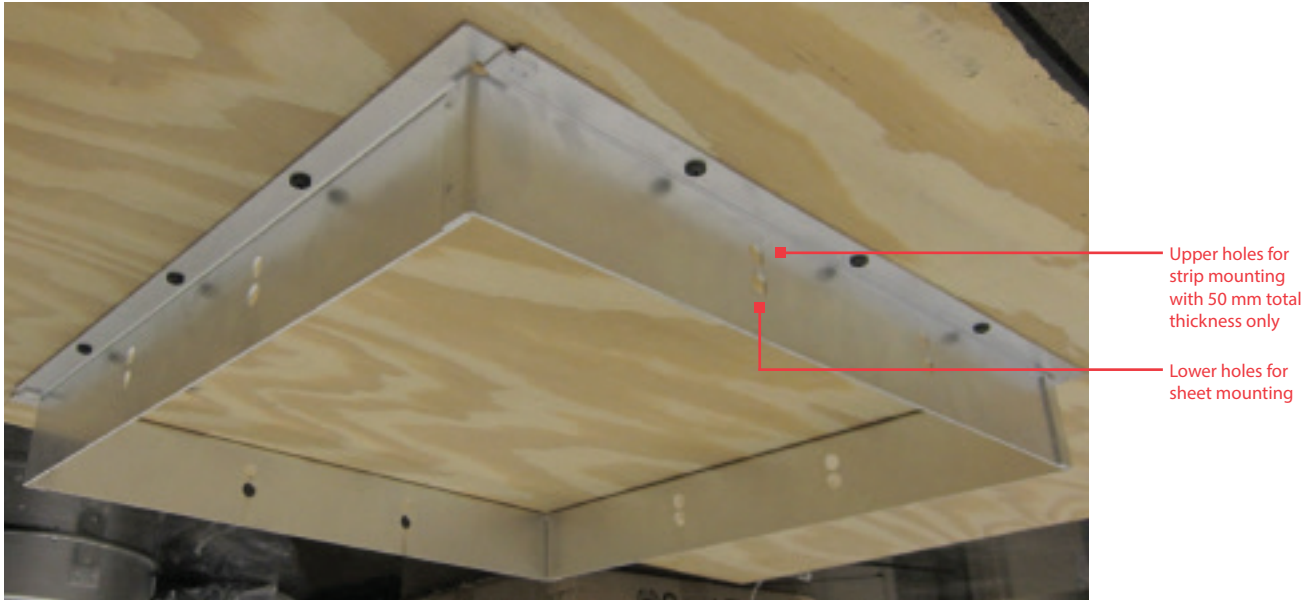


Figure 4: Incogneeto™ Frame Mounted Onto Plywood Sheet

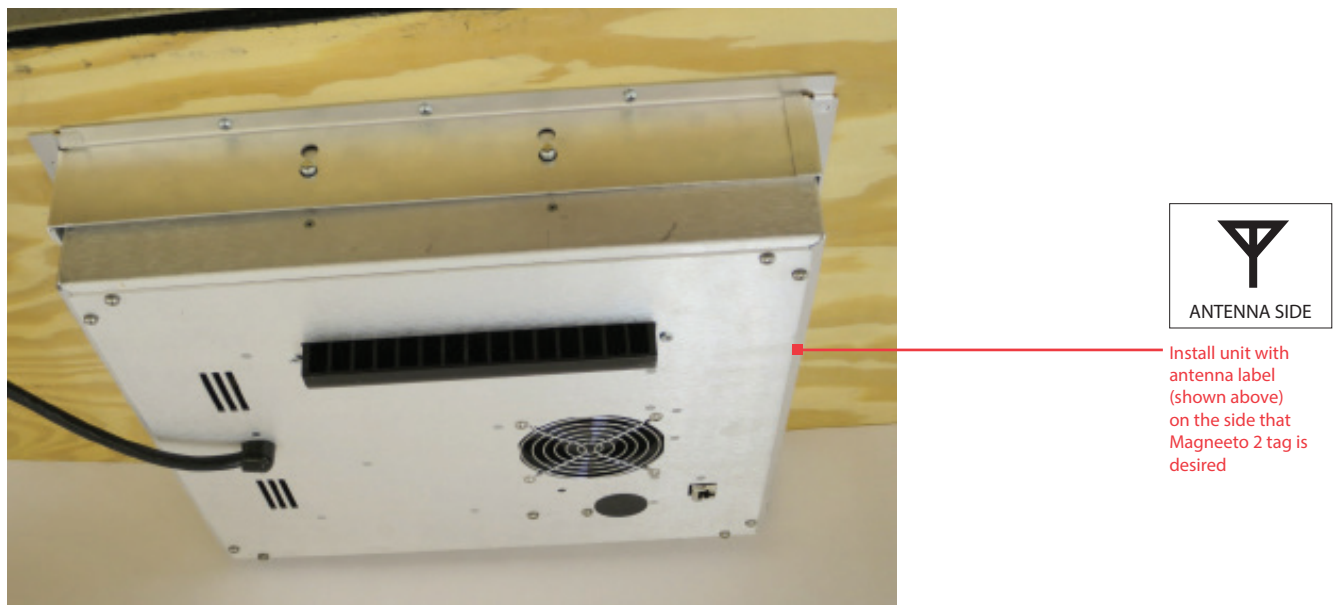


Figure 5: Incogneeto™ Installed Under Countertop