

FIELD DRILLING INSTRUCTIONS

SAFETY

Operators cutting and/or drilling concrete should always take the proper safety precautions. Respiratory and eye protection should be worn. All equipment should be inspected prior to operation and the work area should be free of any potential hazards.

TOOLS REQUIRED

Angle Grinder

Diamond Core Dry Drill Bit (in desired size)

Grinder Dust Shield or Vacuum Shroud (recommended)

RESTRICTIONS

Any penetrations up to a 2" diameter should be placed at a minimum of **3"** off any edge of the precast component. Penetrations larger than a 2" diameter should be placed at a minimum of **6"** off of any edge.

DRILLING PROCEDURE

1. Place the precast panel or top **face up** on a large, flat work surface with continuous support to prevent flexing of the concrete.
2. Use the grinder with the desired drill bit size to drill a hole in a piece of masonite or thin plywood to serve as a bit guide when drilling the concrete.
3. Locate your desired hole locations and align your bit guide onto your location. Secure the bit guide to the surface with a clamp or safe release masking tape.
4. Protect the surrounding area of the precast area or top with plastic sheeting.
5. Place the bit into the bit guide prior to turning on the grinder.
6. Begin drilling, applying medium pressure to the grinder, through the depth of the concrete at a slow, constant rate.
7. Immediately after drilling, vacuum any dust accumulated on the surface, remove the bit guide, and gently wipe the surface with a clean, damp microfiber towel to remove any remaining concrete dust.
8. Ensure when moving the panel or top off the work surface, proper handling techniques are used. The precast should

be lifted and handled with the short dimension perpendicular to the ground, avoiding it being parallel to the ground as much as possible.