

Number 5 Method Statement for Flue Installation.

Method Statement: 125mm Core Drilling Through Brick

1. Tools, Equipment & Material

1. **Material:** External solid brick wall.
2. **Drills:** SDS-plus drill (for pilot), Heavy-duty diamond core drill motor (with safety clutch).
3. **Bits:** 10mm x 450mm masonry bit, 125mm diamond core bit with guide pin.

2. Step-by-Step Procedure

Step 1: Pilot Hole

1. Mark the hole centre on the internal brick wall.
2. Set the SDS drill to **rotary hammer** mode.
3. Drill level (or slightly downward for boiler flues) completely through the brickwork.

Step 2: Core Drill Setup

1. Assemble the 125mm core bit, extension bar, and guide pin.
2. **Crucial:** Set the core drill to **rotary ONLY**. Never use hammer action on brick with diamond cores.

Step 3: Drilling Inside Face

1. Insert the guide pin into the 10mm pilot hole.
2. Start slow to score the brick, then increase speed with steady pressure.
3. Pull back frequently to clear brick dust; break out the internal brick core with a chisel.
4. Drill halfway through the brick wall thickness.

Step 4: Drilling Outside Face

1. Move outside to finish the cut.
2. Insert the guide pin into the pilot hole from the exterior brick face.
3. Drill through to meet the internal cut in the middle.