



For use with Powder Actuated and Gas Tools

General

When installing insulation panels to overhead concrete slab please follow the precautionary guidelines below to ensure best possible results. Due to the nature of Powder Actuated and Gas Tool insulation panel installation it is very difficult to observe each and every insulation fixing that has been fastened correctly to the concrete as the insulation panel shields the installer from visually observing correct installation.

Powder Actuated and Gas fixings into concrete are not always successful as the base material may not be suitable i.e. too hard. To determine suitability of the base material a suitability test is recommended and clearly identified and discussed in AS/NZS 1873.1:2003 Appendix A.

Base Material suitability test

Obtain a drive pin from an insulation fastener and hammer to determine base material suitability. Using the hammer knock the drive pin into the base material observing;

1. If there is a clear impression in the base material and drive pin point is not blunt, proceed and do a trial fixing (see instructions below).
2. If drive pin point is blunt - Base material is too hard and fastening should not be made using forced entry system, use drill and fix solution.
3. If base material shows cracks - It's too brittle for fixing, use drill and fix solution.
4. If fastener sinks into the base material - Base material is too soft for fixing, use drill and fix solution.

Trial fixing

Using an assembled insulation washer with drive pin shoot the fastener into the base material without the insulation panel in position, this will allow you to observe the fastening result. If fastening is satisfactory proceed to installation procedure. If trial fastening reflects results highlighted in points 2, 3 or 4 above use drill and fix solution.

Powder Actuated and Gas Tool Installation Procedure Guidelines - Insulation fasteners

- Select correct insulation fastener that matches insulation panel thickness and suitable tool, DO NOT USE INSULATION FASTENER THAT DOES NOT MATCH PANEL THICKNESS. (see figure 1 below)
- Assemble the insulation fastener onto the tool and while holding the insulation panel in place force the insulation fastener through the panel until fully seated on the base material, proceed by shooting the fastener into the base material.
- Using your fingers manually check the installed fastener by pulling on the insulation fastener to see if it is fixed correctly. (see figure 2 below)
- If fastener feels loose or is visibly damaged, remove fastener, cover hole and fix new fastener away from the failed fastener.
- Manually check every installed insulation fastener as you proceed to fasten the entire insulation panel. Repeat process for entire job. (see figure 2 below)

