

## Carpark Panel

Mammoth® 100% polyester insulation is safe and easy to install. Mammoth Carpark Panels are designed to be installed to the underside of a concrete slab separating carparking below with residential spaces above. They will create a warmer, healthier home or work environment.

### Before you get started

- Mammoth is safe to install - it will not irritate your skin when you touch it - in fact you don't need any protective clothing.
- For further safety information on installing insulation refer to NZS4246 Appendix B and the HSE Act.

### Recommended tools

- Tape measure and/or digital laser meter.
- Automated fastening tool such as a Hilti or Ramset gun.
- A specialised insulation saw such as Bahco and/or a wide blade craft knife such as Tajima.
- Suitable for insulation anchors - Hilti X-IE6 or Ramset Insulfast GT3.
- Suitable lighting to illuminate the area.
- Site safe scaffolding or other suitable equipment for reaching the soffit.

### Safety Precautions

- Check to ensure there are no leaking pipes or broken services before commencing. Repair work must be completed prior to installation.
- Take note of all equipment, pipes and lighting installed in the area as Mammoth Carpark Panel insulation will need to be cut to accommodate these services.
- In elevated working areas, ensure the working environment is safe for installation of Mammoth Carpark Panel insulation.

### Things to look out for

#### Electrical Wires

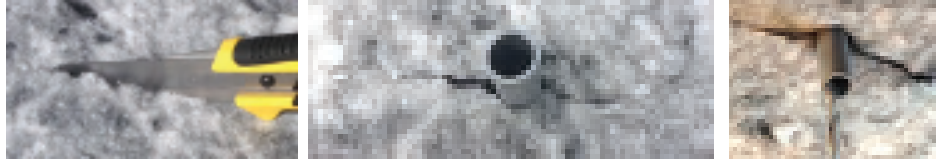
- Take care not to damage service cabling such as electrical, phone, data and alarms - treat all wires as live.

#### Lighting & Downlights

- Take note of all lighting and ensure all clearances are adhered to for the classification of light fitting.
- Follow manufacturer's instructions for clearances between lights/downlights and insulation as required.
- If these instructions are not available leave a minimum clearance between the light fitting and the insulation of 200mm.

#### Drilling

- Use a permanent marker to mark the cutting line. Cut a slit through panel with a Tajima or Sharp knife as shown below.
- Insert short length of tube/conduit into the slit.
- Drill through the tube/conduit.



#### Other Hazards

- Airconditioning units/ducts
- Extractor fans
- Plumbing services and pipes
- Sprinkler units
- Smoke alarms

### How to install Mammoth Carpark Panel

Mammoth Carpark Panel insulation is designed to fit to the underside of a soffit with the following installation instructions.

- Ensure you have sufficient lighting and scaffolding or elevating equipment to safely work in the area you are wanting to insulate.
- Work out the installation pattern for the entire soffit area and measure the number of panels required.
- Place the Carpark panel on a suitable work surface (concrete floor is ideal) and mark out the positions for the insulation anchors. Cut a 10mm slit in the panel to facilitate insertion of the insulation anchors into the panel.
- We recommend 8-11 insulation anchors per panel, as per Fig. 1 and Fig 2 overleaf. NOTE: We recommend you make provision for any cutouts required for penetrations through the panel for such items as sprinklers, pipes etc.
- Invert the panel and firmly hold against the soffit. Align the corner of the Carpark Panel to the concrete substrate and apply the first fastener as shown in Fig. 3, ensuring it is flush against the concrete soffit with no sagging.
- Apply the second fastener on the opposite side to the first to secure the end of the panel as shown in Fig. 4.
- Proceed with fastening the panel along one side, evenly spacing the insulation anchors. NB: Fasteners with smaller heads (& washers) will require higher frequency than in Fig. 1.
- Repeat the process for all subsequent panels and ensure all joins are firmly butted without gaps, tucks or creasing.

