

ECHOPANEL® 24mm

INSTALLATION GUIDE

For direct fix to walls & ceilings

This guide is presented in good faith to assist in the installation of EchoPanel® 24mm. It is not intended as an all-encompassing guide, and a professional qualified installer is recommended for optimum results.

Woven Image accepts no responsibility for installation actions taken or not taken. Please refer to Woven Image Pty Ltd. Terms of Trade.

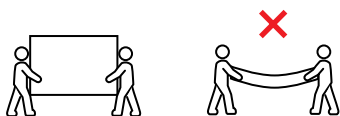
This installation guide contains only recommendations; if you have any questions about installation techniques please contact your distributor or Woven Image sales representative.

Please note:

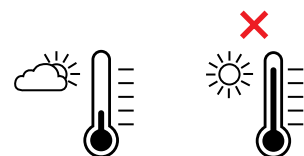
- Exact colour matching cannot be guaranteed between batches.
- Fibre mix and surface texture may vary.
- Please check that all panels are the correct design, colour, shape and batch number (if requested).
- Allow for thickness variations due to manufacturing tolerances and any minimal unevenness of substrate.
- EchoPanel® 24mm has an inherent grain direction. Stickers with the Woven Image logo are placed in the same corner of each plain panel to assist with correct panel orientation.
- No claims will be accepted after panels are installed.
- Ensure appropriate work safety regulations are met, e.g. protective clothing, eyewear and respiratory equipment.

HANDLING & STORAGE

Carry boxes and panels **upright**



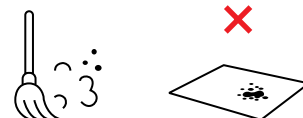
Store in a **cool dry** place, with **no direct sun**.
Avoid 65°C or greater



Store boxes and panels **flat**



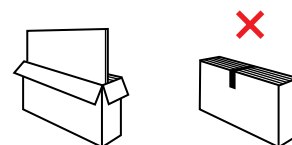
Keep all **surfaces clean** for storage and fabrication



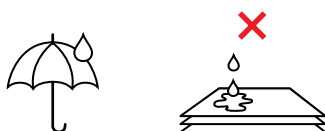
Wear **gloves** for handling **light colours**



Upon delivery, **inspect** all goods for order **correctness** and **damage**



Keep **dry** and **avoid humidity**



Protect the **edges**



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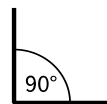
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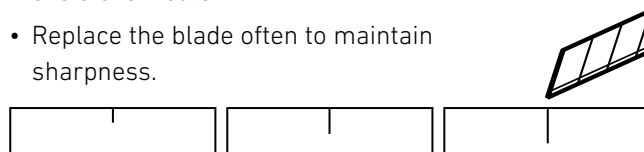
Cutting/trimming by machine

- EchoPanel® 24mm can be cut on a CNC machine or using a plunge cut circular saw or band saw with wave toothing blade and a metal guide.
- Do not use a serrated blade with side-set teeth.
- Trial cut on a scrap piece first, as saws will behave differently on sheets of different thickness and density.
- Feed against the rotation of the blade or tool using a slow, consistent feed rate to prevent overheating.
- A fast feed can cause frictional heat which can melt or fuse the heated contact points with a saw blade.
- Secure sheet whilst cutting to minimise vibration.

Cutting/trimming by hand



- Ensure blade is inserted into panel at 90° to the surface to ensure square edges and best results for butt joints.
- Ensure the blade is sharp and not too long or flexible to avoid skew cuts.
- Replace the blade often to maintain sharpness.



- For best results, use multiple cuts and light pressure.
- Keep flat and use a backing mat.
- Use a secure straight edge for straight cuts.

Direct fixing with adhesive

GENERAL NOTES

1. **Product:** Woven Image EchoPanel® 24mm
2. Ensure the substrate is flat, dry, stable, clean, and free of dust, grease, loose material, or other contaminants that may affect adhesion.
3. **Adhesive to be used:** Olmurtech TEC7 Adhesive. Ensure all adhesive beads maintain a consistent 6mm diameter throughout application.
4. **For ceiling installation**
 - Apply continuous 6mm TEC7 Adhesive beads 50mm from the panel edges.
 - Maintain a gap of 50mm at each corner between the perimeter beads to ensure the adhesive beads do not intersect, merge, or come into contact with adjacent beads.
 - Terminate all internal adhesive beads 50mm from the perimeter adhesive bead at each end of the panel.
 - For portrait installation, apply the internal adhesive beads equally spaced with a maximum of 300mm centres.
 - For portrait installation, ensure the two outermost

internal adhesive beads terminate 100mm from the perimeter adhesive bead at each end of the panel.

- For horizontal installation, apply the internal adhesive beads equally spaced with a maximum of 300mm centres.
- For horizontal installation, ensure all internal adhesive beads terminate 50mm from the perimeter adhesive bead.
- Position the Woven Image EchoPanel® 24mm within 5 minutes of adhesive application.
- Apply firm, even pressure directly over each adhesive bead, starting at the centre of the panel and working outwards.
- Ensure all adhesive beads achieve full contact with the ceiling surface along their entire length.
- Verify the panel is fully bonded, aligned, and free from gaps or lifting.
- Allow 24 hrs for the adhesive to cure.

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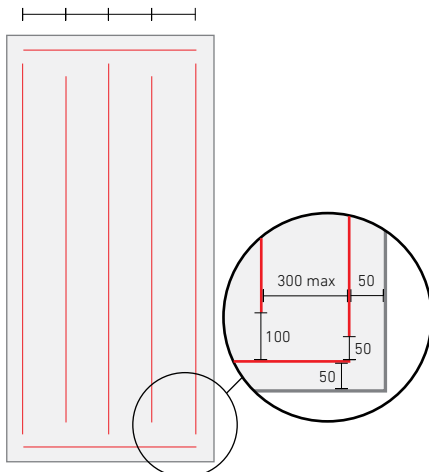
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5. For wall installation

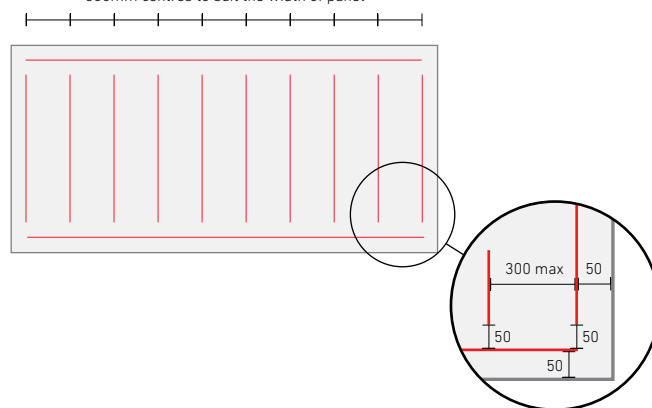
- Apply continuous 6mm of TEC7 Adhesive beads at 50mm from the panel edges.
- Terminate all internal adhesive beads 50mm from the perimeter adhesive bead at each end of the panel.
- For portrait installation, apply the internal adhesive beads equally spaced with a maximum of 300mm centres.
- Install the internal adhesive beads as discontinuous beads, consisting of 50mm edge distance adhesive lengths separated by 100mm gaps. The discontinuous bead pattern must finish 50mm from the panel edge.
- For horizontal installation, apply the internal adhesive beads at a maximum of 300mm centres.
- For horizontal installation, ensure all internal adhesive beads terminate 50mm from the perimeter adhesive bead.
- Position the Woven Image EchoPanel® 24mm within 5 minutes of adhesive application.
- Apply firm, even pressure directly over each adhesive bead, starting at the centre of the panel and working outwards.
- Ensure all adhesive beads achieve full contact with the wall surface along their entire length.
- Verify that the panel is fully bonded, correctly aligned, and free from gaps or lifting.

EchoPanel® 24mm ceiling installation using TEC7 adhesive

Equally spaced adhesive beads at max 300mm centres to suit the width of panel

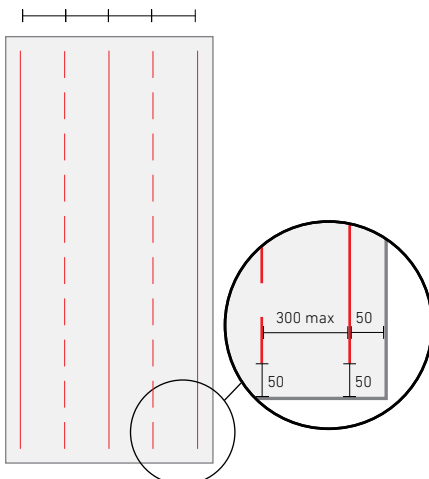


Equally spaced adhesive beads at max 300mm centres to suit the width of panel

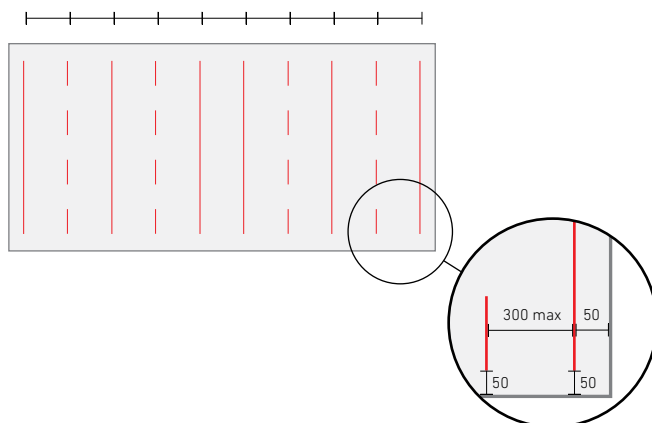


EchoPanel® 24mm wall installation using TEC7 adhesive

Equally spaced adhesive beads (alternating continuous bead, then discontinuous bead, etc.) at max 300mm centres to suit the width of panel



Equally spaced adhesive beads (alternating continuous bead, then discontinuous bead, etc.) at max 300mm centres to suit the width of panel



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Forming

- Made from PET, EchoPanel® 24mm has the characteristics of most plastic type products when thermoforming.
- Heat can be applied to the panel whilst it is held in-form and then allowed to set.
- Folded corners are achieved seamlessly by carving out an appropriate mitre to the back of the panel, leaving about 5mm thickness of panel to bend around the required angle.
- The mitres can be routed out or cut with a knife.
- The angle of the mitre should correlate to the angle required to wrap the panel around – e.g. a 90° corner would require a 90° mitre.

Drilling

- When drilling, be sure to hold or clamp the sheet securely to prevent it from cracking or slipping and presenting a safety hazard to the operator.
 - Twist drills used for plastics are suitable for drilling EchoPanel® 24mm.
 - They should have two flutes, a point with an included angle of 60° to 90°, and a lip clearance of 12° to 18°.
 - For larger holes, use a diamond-tip hole saw and present at a 45° angle to begin cutting and straightening up when penetrating the panel.
 - Optimum bit speed, feed rate, and applied pressure will depend on hole size and sheet thickness. Drill speeds up to 1,750 rpm are best for smaller holes, while speeds as low as 350 rpm can work for larger holes.
 - Wide, highly polished flutes are desirable since they expel the chips with low friction and thus tend to avoid overheating and consequent gumming.
 - Drills with substantial clearance on the cutting edge of the flutes make smoother holes than those with less clearance.
 - Drills should be backed out often to free chips.
 - Drill holes that are minimum 15mm centre offsets from each corner, and slightly oversized to allow for thermal expansion and contraction. Ensure drilled holes have smooth edges.
 - Use washers for better load distribution and to prevent pull through.
 - Use metal inserts if frequent assembly/reassembly is required.
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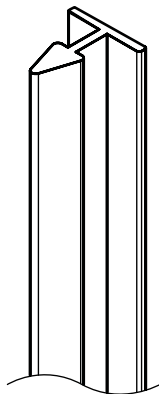
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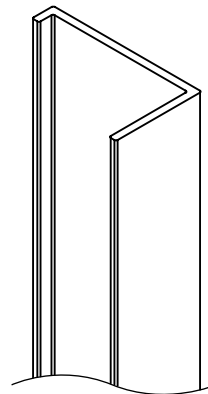
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TRIM PROFILES

Woven Image trim profiles come in 3000mm lengths, these can be easily trimmed on site using an appropriate drop saw or hack saw to match the height of the panel install.



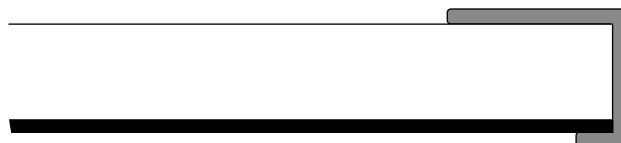
7mm T-jointer



24mm Edge trim

EDGE TRIM

The 24mm Edge trim is used to cover the edges of EchoPanel® 24mm at the end of a wall. Prior to fixing the panel to the wall, friction fit to the trim onto the edge of the panel. Proceed with installation of the panel as per the instructions on the previous pages.



T-JOINER

The 7mm T-jointer can be easily installed between two panels that have been direct fixed to the wall. After ensuring the jointer runs the full length of the join, simply press the piece into the gap between the panels. The shape of the jointer will ensure a snug friction fit.

