ZINTRA 12mm ACOUSTIC PANEL

handling, installation, and cleaning guide

PLEASE CAREFULLY INSPECT THE ZINTRA ACOUSTIC PANEL PRODUCT PRIOR TO INSTALLING, CUTTING, DRILLING OR FABRICATING AND INFORM CROWN SURFACE SOLUTIONS IMMEDIATELYOF ANY DAMAGE OR DEFECTS. FAILURE TO DO SO MAY JEOPARDIZE YOUR RIGHTS TO REPLACEMENT AND/OR REIMBURSEMENT FOR SHIPPING DAMAGE.

To ensure your satisfaction, the following information is provided to guide you in the proper care and handling of ZINTRA 12mm ACOUSTIC PANEL.

handling

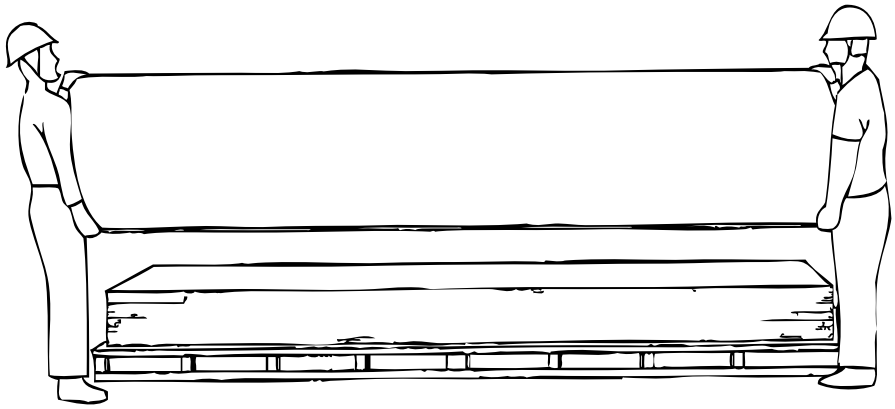
Zintra Acoustic Panels will arrive without protective masking applied to the finished surfaces.

When handling unmasked sheets, make sure hands are clean and oil free: cotton gloves are recommended.

If lifting devices are not available, the Zintra Acoustic Panel can be unloaded manually. However, it is very important to follow special procedures for your safety:

- Handle one sheet at a time
- Sheet should be handled on the edge
- Carry vertically
- Always have heavy-duty protective gloves and proper safety shoes
- Two people to handle the panels

Sheets should be carried one at a time on the edge with one hand under to support and one hand above for control. See below diagram.



The Zintra Acoustic Panel must be stored in a dry place. It is advisable to place a polyethylene cover over the stack when a sheet is removed to reduce moisture absorption.

It is recommended that sheets should be stored horizontally on their original delivery pallets, and that the pallets be placed on horizontal storage shelves. Itis strongly recommended that pallets should not be stacked, which carries the risk of creating internal tensions and spoiling the flatness of the sheets. Please see **Figure A** below.

If a vertical storage method is adopted, it is preferable that the sheets be leaned against solid supports inclined at approximately 80° to avoid any bending, the base of the sheet should be fully supported by flat floor or stable platform. See **Figure B** below.

It is strongly recommended to avoid storage for over 6 months.

Panels should be stored indoors in a cool, dry, well ventilated area out of direct sunlight and away from heat sources. Avoid temperature extremes during storage and allow the material to acclimate to ambient room temperature before installation.

Do not allow water to come into direct contact with the material during storage. This could cause the material to warp, stain, delaminate, and may make the masking difficult to remove.

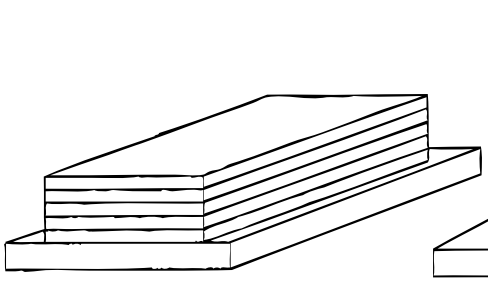


FIGURE A

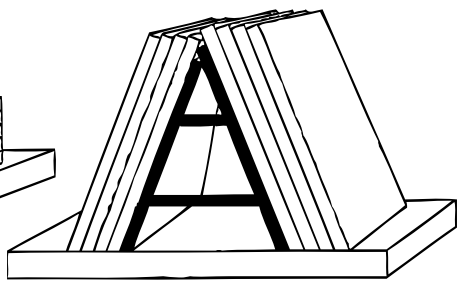


FIGURE B

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cutting and fabricating panels on site

All Zintra Panels can be site-cut as required to accommodate site conditions such as outlet locations and fire alarm boxes. When cutting or drilling, be sure to use sharpened tools to avoid any overheating of the material. A utility knife with a new blade can also be used.

The texture of the panels are similar to MDF. A panel may be cut with:

- **Hand saw** - Use a fine toothed blade. Hold the blade at a low angle. Cut slowly with regular and even strokes.
- **Table saw or Circular saw** - Allow the panel to pass through the saw with even pressure. Do not force the panel. Use a fine toothed blade with80 teeth or more. Carbide tip blades are recommended for extensive cutting or if many panels are to be cut consecutively.
- **Jig saw** - If adjustable, use a slower speed and steady movement. Select a fine-toothed blade suited for finish wood sand plastics and use a template for cut-outs. Be aware to not overheat an area with any blade.
    - Do not attempt to use routers or spiral cutters. Laser tools are also not recommended.
    - Best results will be achieved by using only very sharp tools and blades, ensuring a clean cut and no overheating.
    - Carefully clamp all panels during cutting to avoid vibration during cutting. Vibration during cutting may result in damage of the panel. Properly support the panel at all times while cutting.
    - Carefully measure all walls prior to cutting and ensure you can transfer those measurements onto the panel prior to cutting. Scribe to fit as necessary. Use a pencil or ballpoint pen to carefully mark the panel on the non-finished side – these will not erase. Painters tape can alternatively be used to mark the correct dimensions and be removed without damaging the panel.
    - Zintra panels can be drilled. Carbide tipped steel drills are recommended to obtain a high-grade finish one the sides of every hole. Better results will be obtained with slow to medium drill speed.

installation

Installation Checklist:

The following is a mandatory checklist for installers when working with the Zintra Acoustic Panel:

- ✓ Check piece sizes, colour, design, and finishing prior to fabrication or installation
- ✓ Ensure substrate surfaces are flattened prior to install
- ✓ Clean surfaces with denatured alcohol before applying adhesive ti prevent binding failure

Zintra panels are simple to install using construction adhesive and if desired double-sided tape. It can be fixed directly to a timber frame wall or it can be laid over an existing wall lining, such as plaster board.

Important Notes:

- Do note rush your installation. Take time and care during installation to achieve a professional finish.
- DO NOT USE SOLVENT BASED CONTACT ADHESIVES

Zintra panels are most commonly installed using one of four of the following methods:

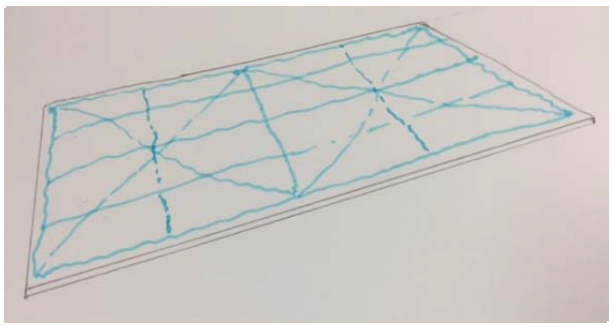
- Direct adhesion to the substrate
- Z-clips
- Standoffs
- Mechanical fasteners (nails and screws)

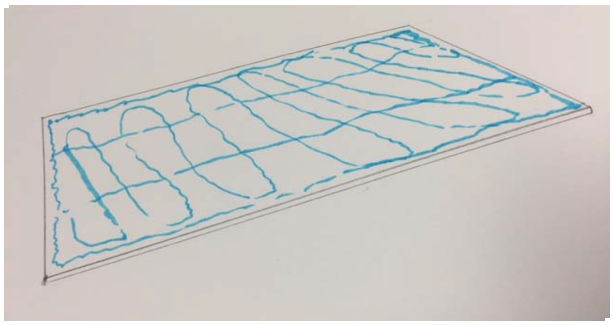
If you are unsure about which method has been specified for your project, please confirm those details with your specification source and direct your questions to them. If you have any questions regarding specified fixing methods, please contact Crown Surface Solutions.

Suitable substrates are scuffed MDF, plywood, gypsum board, CMU, or any uniformly clean, suitably sound, stable, smooth/previously painted surface with a verified bond of the coatings and layers with a surface which has some tooth to allow adequate bonding. If you have any doubts about your surface, a site mock-up is suggested. Application to loose or unsecured plywood or MDF panels is not recommended.

Direct Adhesion to the Substrate

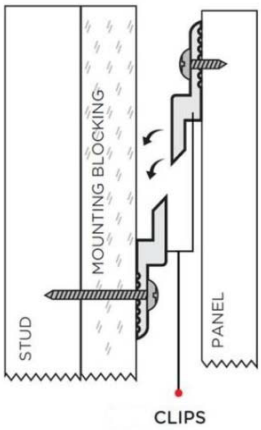
- Be certain that your substrate will hold an adequate bond to the recommended adhesive. If in doubt about coating or a finish already in place, an adhesion mock-up test is recommended before you begin.
- Cut, scribe, and pre-fit all Zintra panels as necessary.
- Once all the panels have been properly sized and trimmed, begin application of the adhesive to the BACK SIDE ONLY of each panel. Suggested adhesives include **Liquid Nails LN710 Panel and Molding** and **LN2000** adhesive tubes.
- Place the cartridge tube into the caulking gun, cut the nozzle and puncture the inner seal. Trim nozzle to produce as 1/4" thick bead
- First, apply a squiggly bead 1" in from the edge of the panel along with all four perimeter edges of the BACK face of the panel. See below images for reference.
- Next, apply a zig zag pattern diagonally across the central section of the panel, within the already placed bead of adhesive.
- Apply the panel to the substrate within 20 minutes of adhesive application and monitor adhesive to prevent it from skinning over. Set the panel gently into place.
- Smooth the panel into place and then lift it off the surface, holding the panel separate for one minute. Then reset the panel to the substrate, this time applying adequate pressure to firmly set it. Mechanically support the panel(s) if you deem it necessary until the adhesive is completely set.





Using Z-Clips

- Z-clips consist of two parts for each clip, one mounted to the wall substrate and the other mounted to the back of the material
- If using a Z-clip system, be sure to allow a gap at the ceiling line which is sufficient in dimension to allow the clip, which will be screwed into the panel, to be lifted up over the wall mounted portion of that clip and then dropped in to be seated properly. This is commonly a 1" or so allowance between the panel and ceiling.
- Depending on the size of your panel, you will have anywhere from 2 to 6 Z-clips to mount the panel securely.
- The goal is to mount each panel level and plumb.



- Begin by mounting your first half of each Z clip to the back of the first panel. Orient the clip to be facing downward (open gap is down). Install the uppermost clip no closer than 1" to the horizontal top edge of the panel. Clips should be positioned to be:
    - Parallel to the horizontal edge of the panel
    - Centered on the panel and no closer than 6" away from each vertical side edge
    - Separate each clip to be positioned no closer than 2' below the clip above it.
- Attach the panel clip halves to the panel using pan head #8 sheet metal screws, 1/2" long. You will need to drill holes for these screws in the Z clip halves, but not into the panel itself. Do not over-tighten the screws. Position a screw anchor to be no less than every 12" along the clip.
- With each half clip now attached to the panels, you can coordinate the placement of the opposing half of each clip attached to the substrate. BE SURE

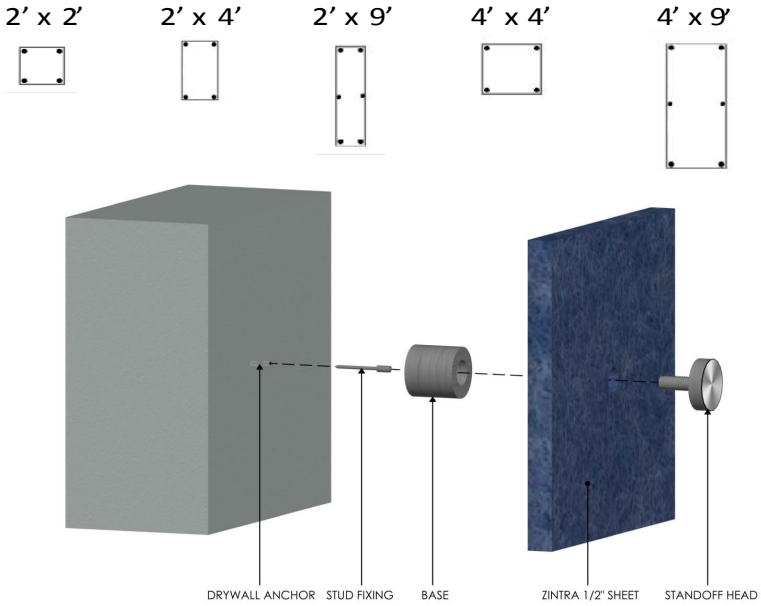
YOUR PLACEMENTS ARE DESIGNED TO ALLOW FOR THE DROP IN HEIGHT ALLOWANCE NEEDED TO LIFT THE PANEL OVER THE BOTTOM CLIPS BEFORE SEATING EACH. As mentioned previously in this document, typical allowance is a minimum of 1" from ceiling to panel.

- Measure down from the ceiling on the substrate and position the uppermost clip on a horizontal line which is placed to allow the two halves to be seated properly once the panel is installed. Verify that these clip positions are level and properly spaced to coordinate with the opposing halves before committing.
- Install these clips using a suitable anchor for your substrate. Most commonly, that will be 5/8" gypsum board. Select your anchor knowing that the best choice for the screw is a pan or truss head #8 of the appropriate length to securely embed into the wall studs. We do not recommend the use of fluted head drywall screws for this. You will need to drill holes for each of these screws in each of the Z-clip halves.
- With the wall halves now secured, you can lift the panel to slip over the Z-clips and then drop the panel into the properly seated position.

Using Stand-Offs

The number of stand-offs will be determined by your panel dimensions. Please refer to the below diagram for an overview of how many that might be. Blocking is also recommended with stand-offs as a hidden support to prevent caving of panels.

Stand-off placement guide: Stand-offs should be 3" away from the edge of the panel.



Begin by marking the panel back for the placement of each hole for each stand-off required. No hole should be closer than 3" away from the perimeter edges of the panel.

- Using a tungsten carbide bit of the diameter appropriate to match your stand-off (not supplied, so you will need to determine these), use a power drill to create each of the holes you have marked.
- With all of the holes now drilled, determine the precise placement of where the panel is to be installed. With one person holding the panel level and plumb, a second person will mark the substrate for the precise placement of the holes.
- Secure each stand-off base to the substrate using an appropriate anchor. We recommend arranging a backing support already in the wall or align a vertical column of anchors to fall on a wall stud instead of hanging the full weight off just the gypsum board wall panel.
- Set the panel in place over the stand-off bases and attach the stand-off head cap trims to secure the panel. Tighten only by hand, do not over-tighten.

Mechanical Fasteners

- You may also secure the Zintra panel to the substrate using the same fastener placement guide as used for stand-offs, but use direct fastening (screw of nails) to secure the panel.
- If using screws, we suggest that you use a pan or truss head and that you pre-drill your holes (selecting a tungsten carbide drill bit of the appropriate diameter to the screw you have selected). Remember to select an anchor which is appropriate to your substrate. Each standard Zintra panel is approximately 18lbs.
- Make sure to tighten all screws to be tight, but not too tight (do not compress the Zintra unevenly).
- Power nailing can be utilized if you have adjusted the tip of the gun for the density of the Zintra

If you are unsure about the system selected for your project, please stop and verify the details. Crown Surface Solutions may be able to assist you with some methods of common attachment, but others may be unique to your project.

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cleaning

Blot access spills from material as quickly as possible. Wipe with a damp cloth.

If stains persist, apply a small amount of carpet shampoo cleaner mixed with water and a damp cloth. Blot well after each application.

Try this cleaning method in an inconspicuous place prior to a visible area.