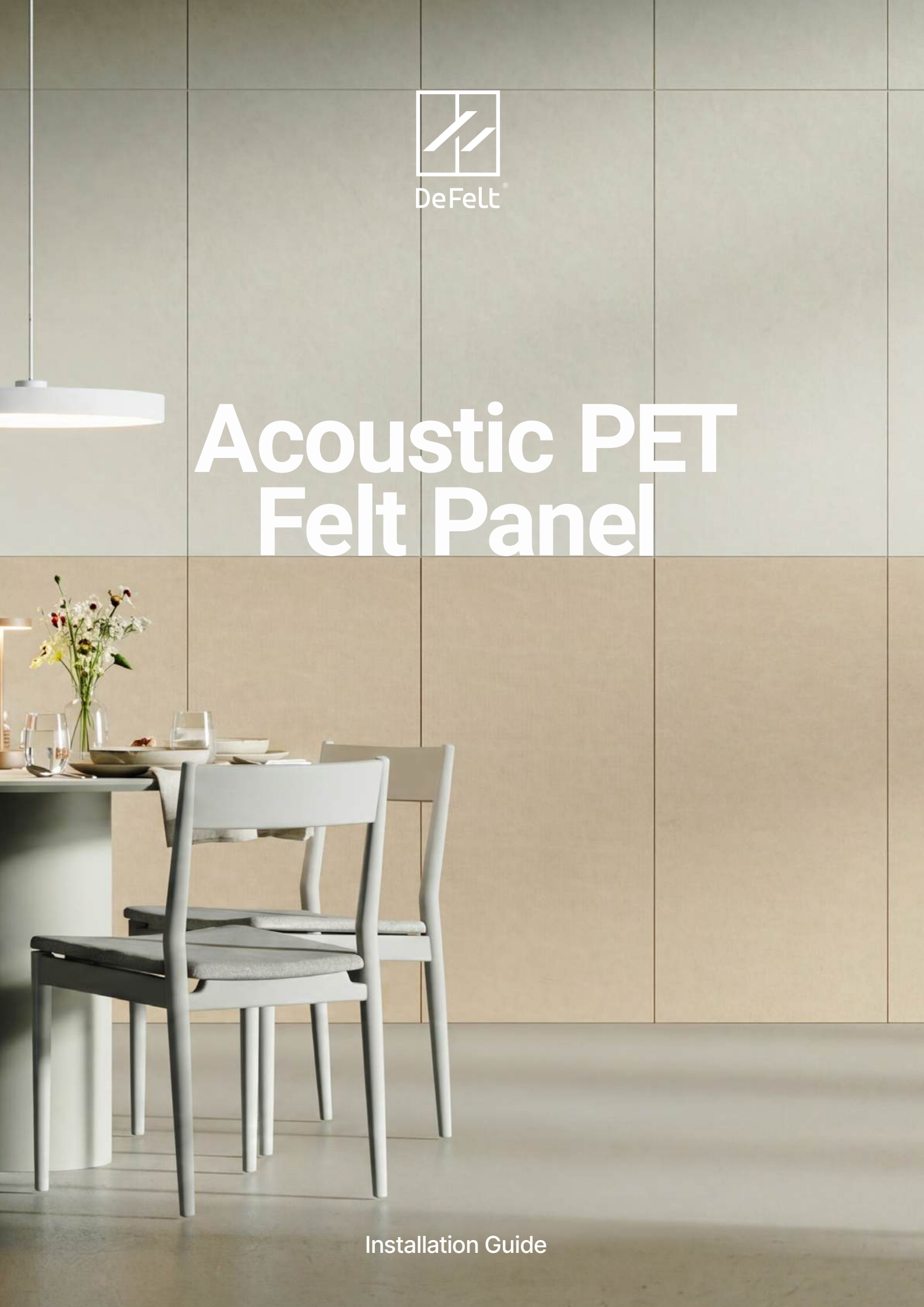


DeFelt®

Acoustic PET Felt Panel

Installation Guide

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01 Basics

Installation

Before starting the installation, please read the entire Installation Guide. This document is designed to support installers with helpful insights regarding PET panels. It is not an exhaustive manual and relies on the installer's professional judgment and experience. DeFelt® is not liable for any mistakes or omissions made during the installation process. For any questions related to installation techniques or panel application, please contact DeFelt®.

Terms of Trade

All PET panels are carefully inspected before leaving our facility. DeFelt® is not responsible for any damage that may occur during shipping or storage. Upon delivery, customers are advised to inspect all items thoroughly and note any visible damage on the delivery receipt. Any hidden damage discovered after delivery must be reported to the carrier immediately. DeFelt® will not process claims if the product has already been altered or worked on by the customer or any third party. Labor charges will not be reimbursed under any circumstances.

Work Safety

For safety purposes, individuals handling PET panels are encouraged to wear appropriate personal protective equipment. Although the material does not release any off-gases, the use of gloves and masks is recommended to maintain optimal safety standards. To request a ● Safety Data Sheet, please contact with DeFelt®.

Cleaning

See the ● Handling & Cleaning Guide for more information.

PET Panel Specs

See the ● PET Panel Spec Sheet for product details and information.

Product & Installation

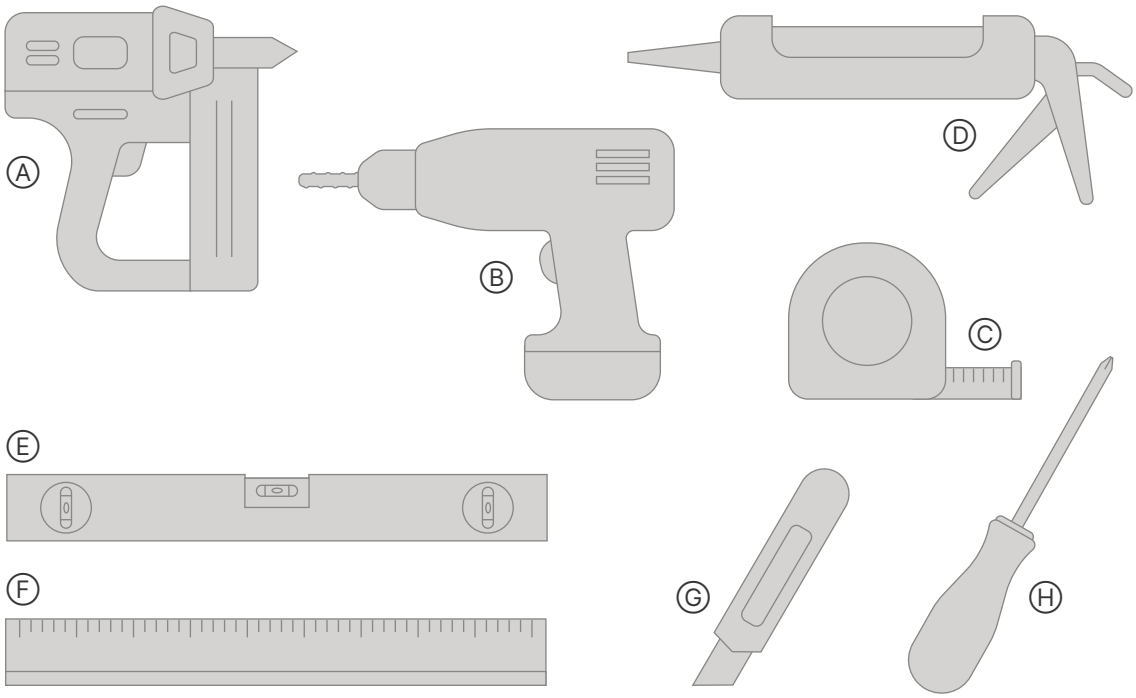
For more information, please visit our website at ● defelt.com and contact us through the site.

02 Before Installation

PET felt panels are made from recycled materials, so slight color variations may occur. To minimize these differences, install the panels in the same sequence as they are stacked in the box, with the top of the panel facing forward The panels have distinct front and back sides due to the different fiber orientations (nap direction) on each side. Install all panels in the same direction and always use the same side, to prevent changes in appearance. Handle PET felt panels with care during transportation and unloading. Because of their size and flexibility, a single panel typically requires two people to lift it. For a seamless transition between panels, place them tightly against each other. To achieve this, firmly press each loose panel against the already installed section before securing it.

Tools may be needed during installation

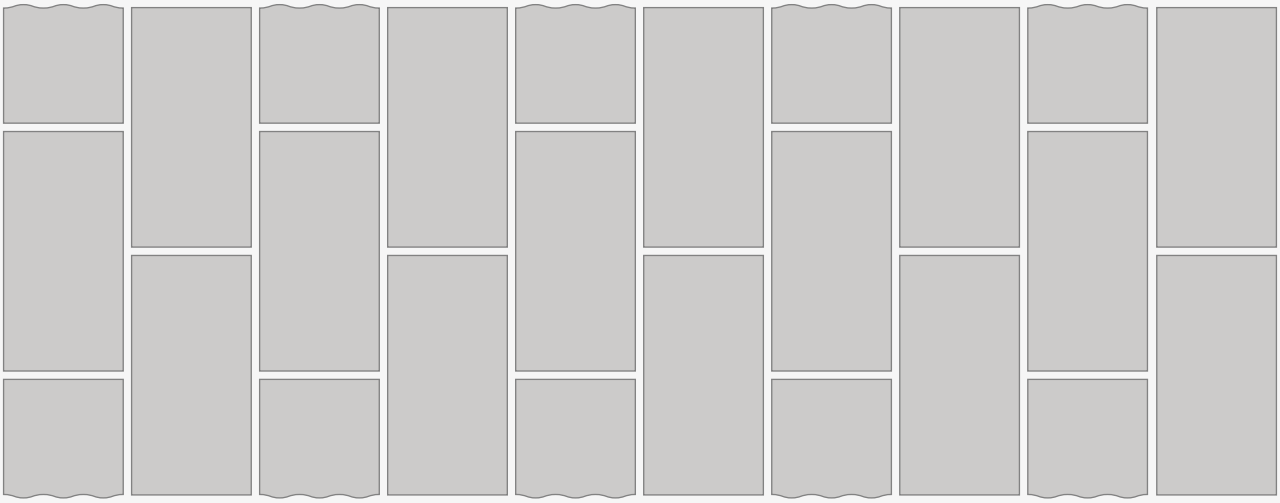
The panels feature a pre-applied adhesive layer, DF-DOT, which allows installation without additional adhesives. However, for optimal alignment and a more precise finish, we recommend using basic tools.



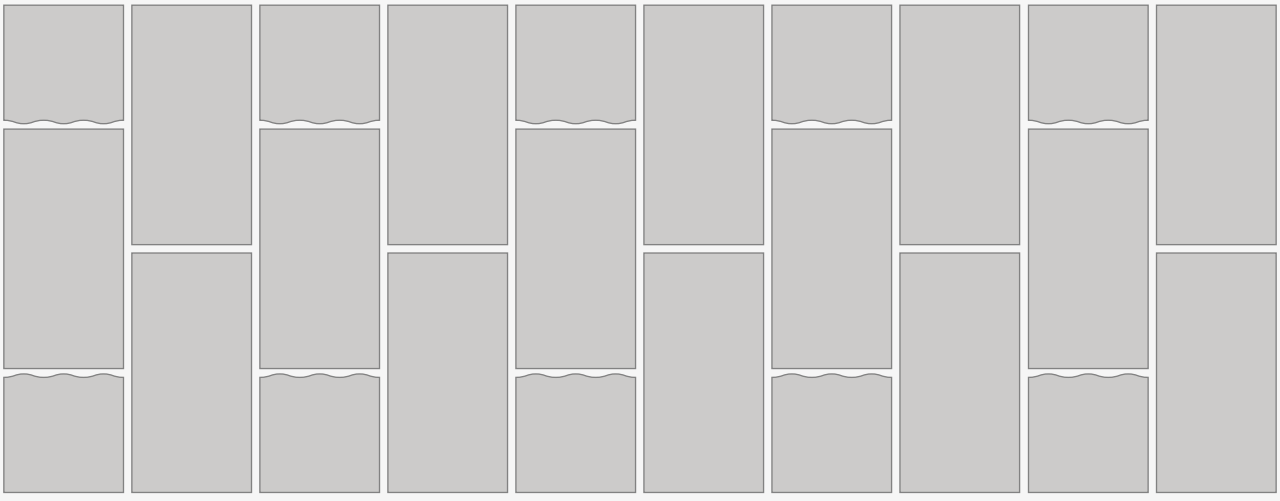
A. Staple gun
B. Drill
C. Measure tape
D. Assembly Adhesive
E. Level
F. Ruller
G. Blade cutter
H. Screw driver

02 Before Installation

Pattern positioning



When laying out the panels, we recommend the illustrated offset pattern. An asymmetric pattern minimizes the visibility of color differences. Whenever the pattern allows it, position the cut edge on the outside, towards the ceiling or the floor.

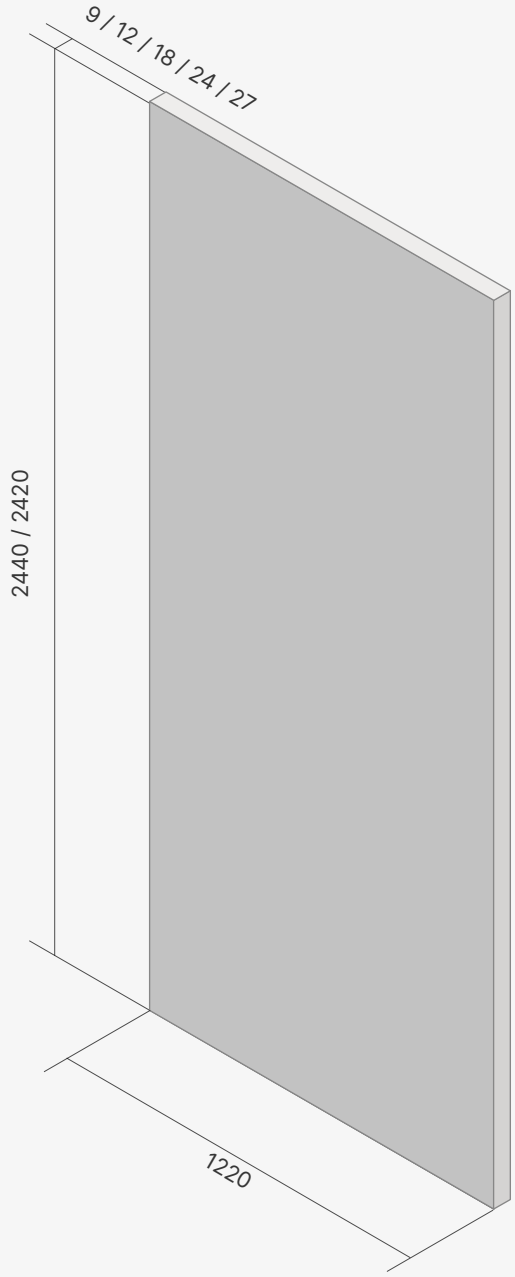


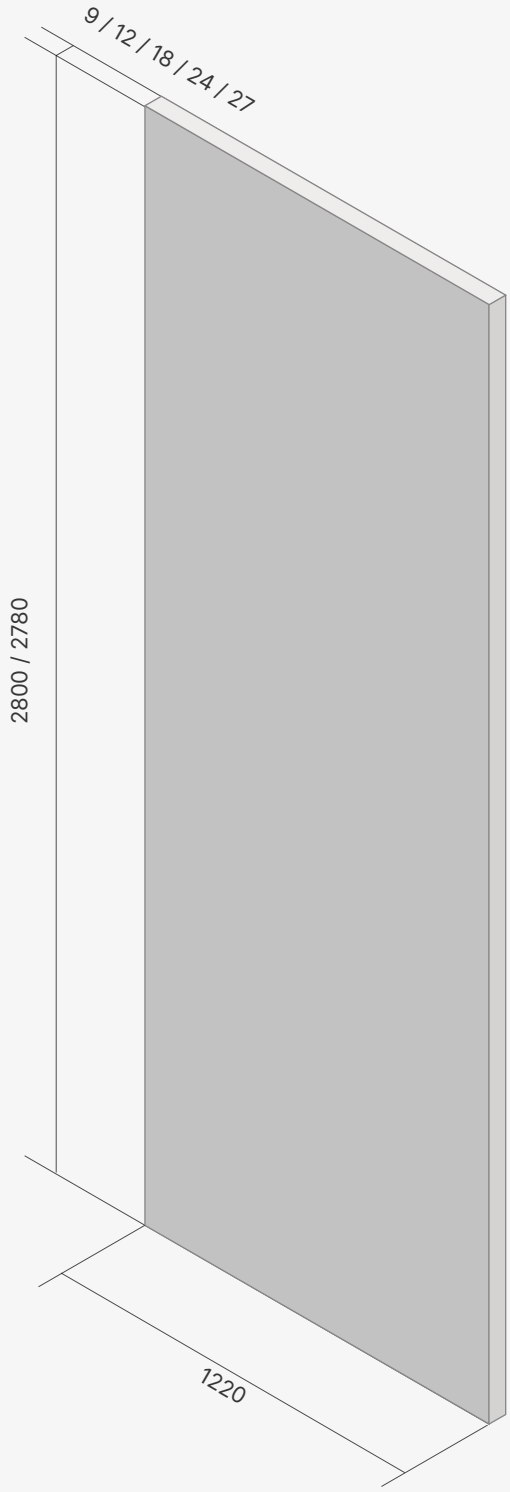
Do not use a single panel to fill in smaller missing pieces.

03 Technical Data

Panels are offered in two sizes. Be mindful of the size differences to avoid mistakes during both the design phase and the installation process.

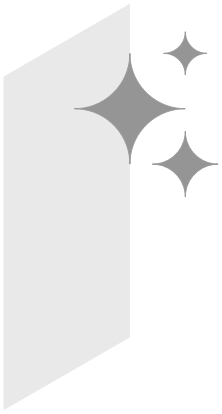
For more Felt PET technical informations, please visit our website ● www.Defelt.com or contact with us.



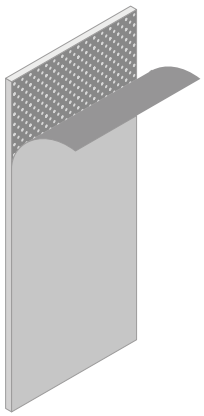


04 StickyFelt™ Installation

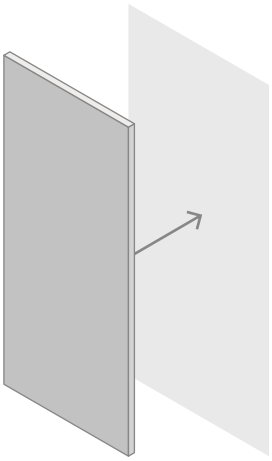
PET felt panels can be installed quickly using the pre-applied DF-DOT adhesive on the back, developed and branded as ● StickyFelt™. This solution allows easy installation, repositioning, and removal of the panels. Any glue residue can be easily removed from both the wall and the PET felt panels. The adhesive forms an instant bond on contact but reaches maximum strength after 24 hours, so reposition panels immediately after placing them, before the bond sets.

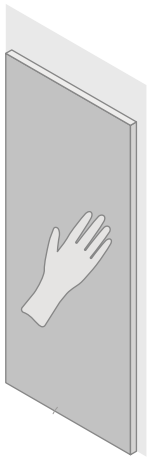


① Make sure the surface is flat, clean, and dry, and that your workspace will not stain the panels.



② Peel the protective paper from the adhesive on the back of the panel, position the panel on the wall in the desired place, and press it against the wall.



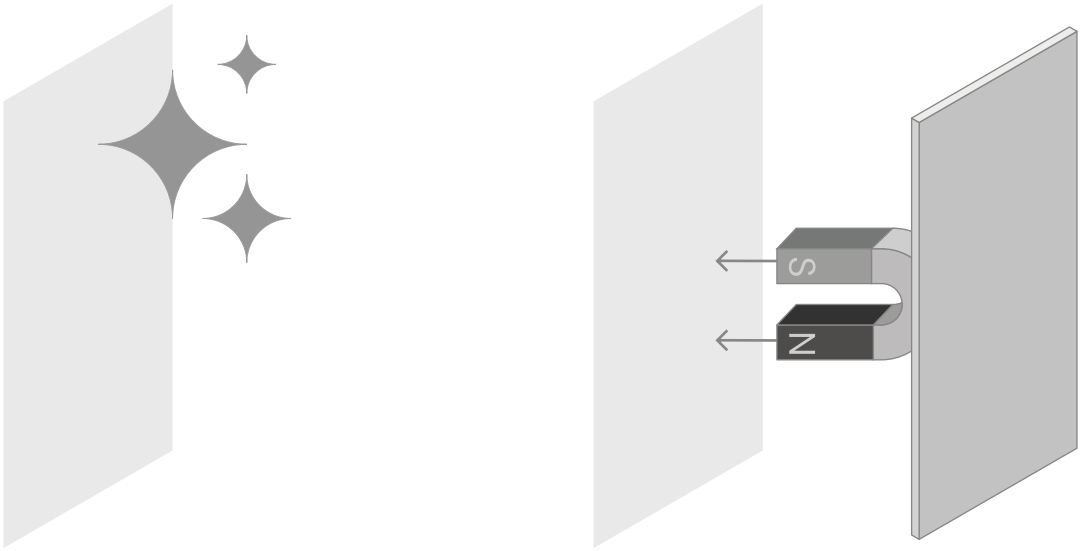


③ Begin the installation from one edge, taking care to align the first panel correctly. Apply even pressure across the entire surface to ensure proper adhesion. Hold the panel in position for a few moments, then repeat the steps for the remaining panels.

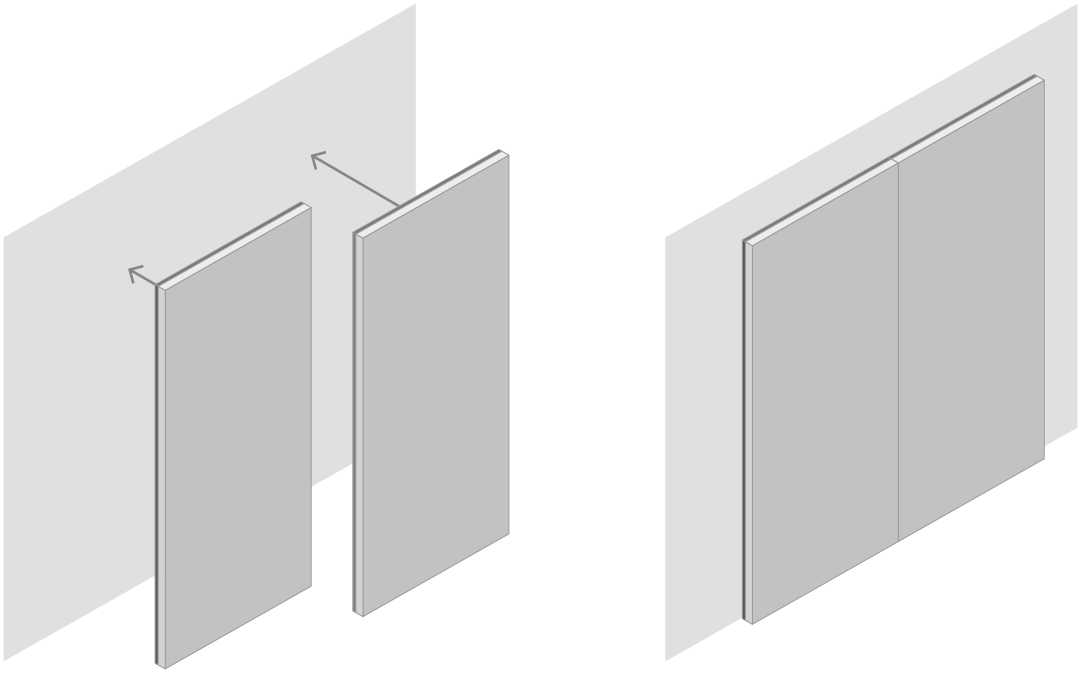
(!) Due to the variety of surface types, and because we have no control over the surface condition or the method of application, we cannot guarantee the effectiveness of this method. Always carry out a small-scale adhesion test before proceeding with the final installation on larger areas. If the adhesion of StickyFelt™ is not satisfactory, the same panels can be additionally installed using the mounting adhesives recommended in this guide (see: Direct Mount Installation).

04 Magnetic Soundboard™ Installation

The fastest temporary and reusable installation method is the magnetic Soundboard™ surface located on the back side of the panel. Magnetic panels can be repeatedly attached to any surface that attracts magnets.



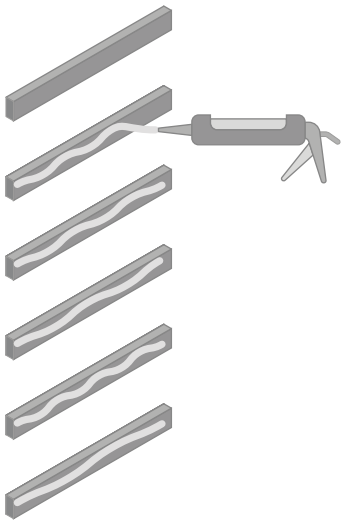
① Make sure the surface is clean, dry, and smooth, and that it attracts magnets.



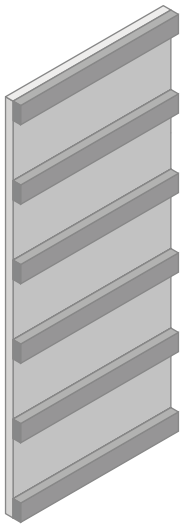
② Place the remaining panels by aligning them with the first panel to complete the desired pattern. If you are not satisfied with the arrangement, simply detach the panel and reposition it.

04 Furring Strips Installation

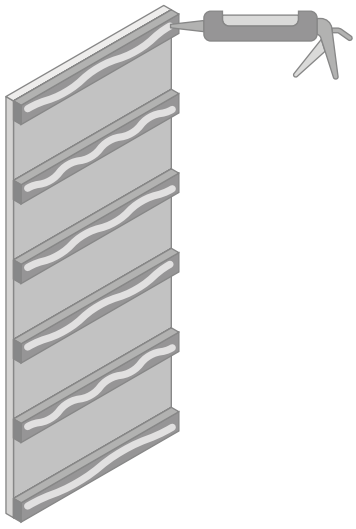
For the best acoustic results, furring strips can be used to create an airspace behind the panels. The strips may be wooden battens or additional panel strips cut to serve as standoffs. Standoffs improve acoustic effectiveness and ventilation. We recommend an airspace depth of at least 2.5 cm and up to 5 cm. Space the standoffs evenly to support the panel adequately and withstand potential impacts. The original gave "a diameter of at least 2.5 cm and up to 5 cm in depth".

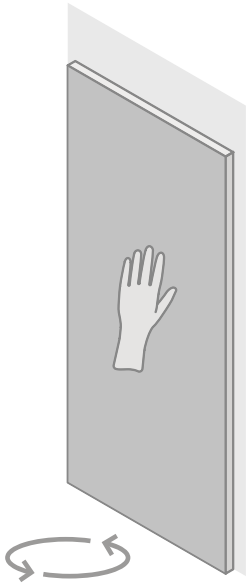


① Prepare the surface according to the adhesive manufacturer's instructions. Apply adhesive evenly to the furring strips (recommended width: 7.5 cm) and attach them to the back of the panel.



② Place the strips every 15 – 45 cm along the panel, depending on the expected impact load.

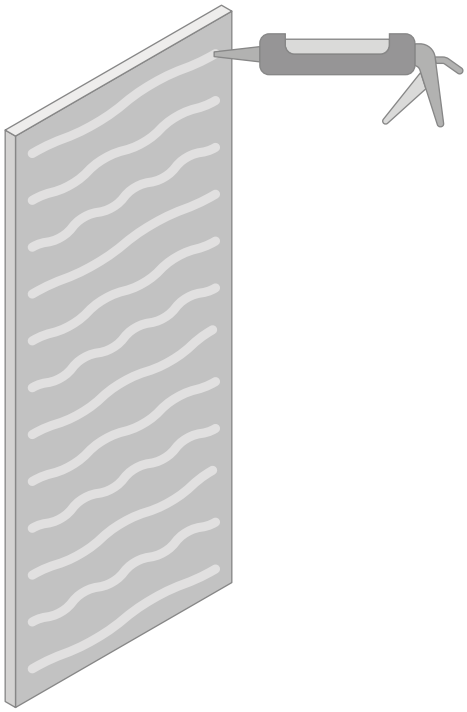




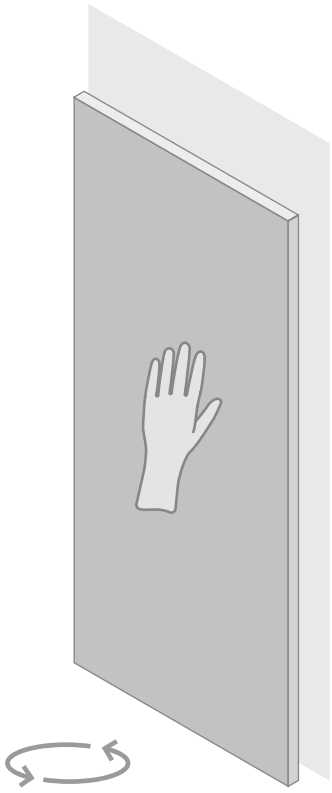
③ Apply adhesive evenly to the exposed side of the attached strips and fix the panel to the wall according to the layout plan. Apply consistent pressure for the duration specified by the adhesive manufacturer. Remove any surplus adhesive after installation. For a neat edge, consider using additional panel strips or alternative surface finishes.

04 Direct Mount Installation

PET panels can be adhered to walls and ceiling using adhesive. Direct mount is the recommended installation method for adhesives. The recommended adhesives to use with PET panels i.e: **PU mounting glue; Mamut, KLEIBERIT PUR 502.8, Gun Foam; ATK 812 Power KLEBER, Solvent Free Glue; MS Polymer Montage Adhesive, DB Montagefix-ST, DB Montagefix--MS, ACOUSTIC Foam Adhesive (solvent free solution and Contact Glues; Pattex TOTAL, Pattex UNIVERSAL Classic.).** Do not use PVA glue as an adhesive for PET panels.



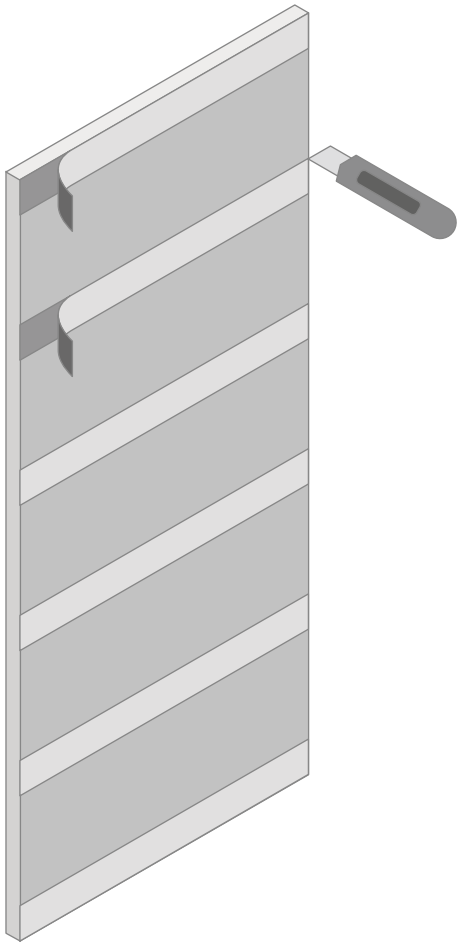
① Prepare the surface according to the adhesive manufacturer's guidelines. Then spread the adhesive evenly on the back of the panel, leaving a 5 cm adhesive-free margin at the edges.



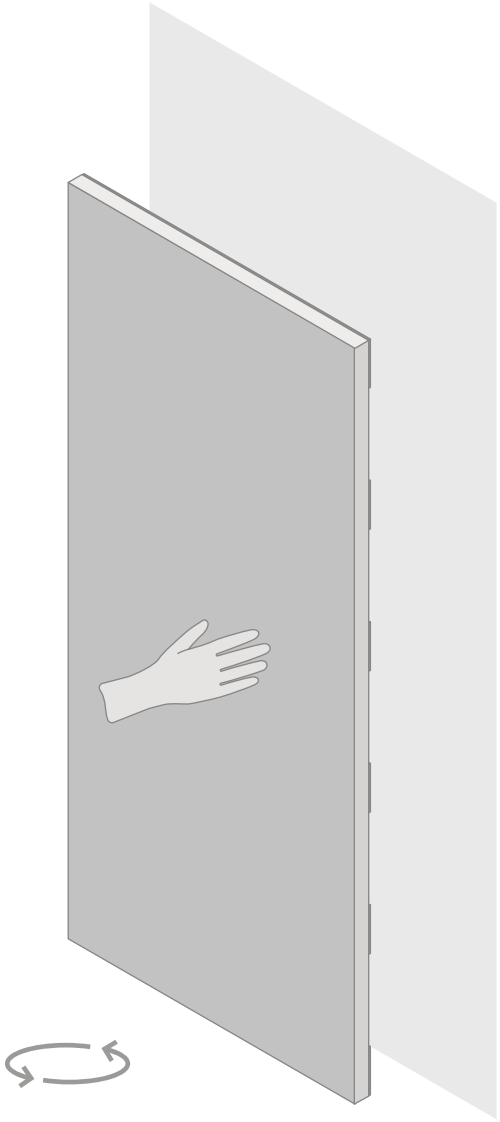
② Attach the panels to the wall according to the layout plan and maintain consistent pressure for the duration specified by the adhesive manufacturer. Remove any surplus adhesive after installation.

04 Temporary Mount Installation

Hook and loop tapes (i.e., **3M™** or **Tesa®**,) or double sided tapes or any tape (with acrylic adhesive) - of commercial grade - can be used for temporary installations. The effectiveness and longevity of such temporary setups rely on the condition and texture of the substrate surface and the correct application of the adhesive. Visual guidelines are based on a standard flat and smooth wall that is clean and suitable for installation. Please be aware that PET panels may sustain damage during removal from the wall, depending on the quantity and type of temporary adhesive applied.



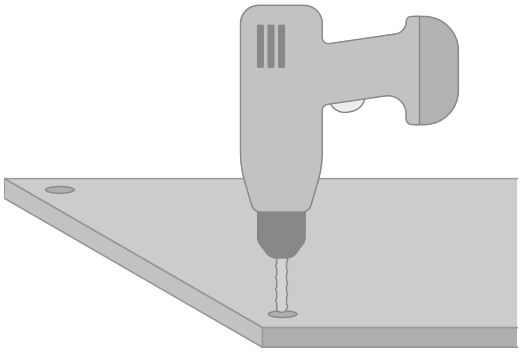
① Clean and prepare surface per adhesive guidelines. Peel off one side of adhesive and apply even pressure on panel. It is recommended to cover the panel with at least 30% coverage for best results.



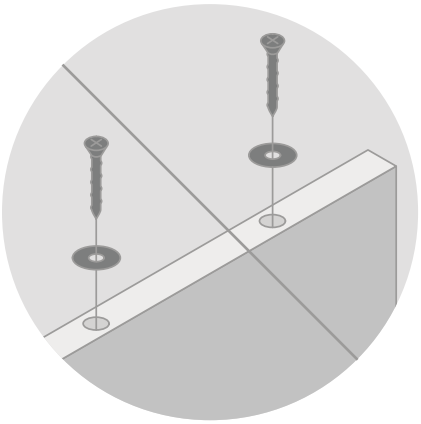
② Remove the backing from the other side of the adhesive and press the panel to a clean, flat surface. Apply consistent pressure, following the adhesive manufacturer's recommended time and guidelines.

04 Mechanical Fasteners Installation

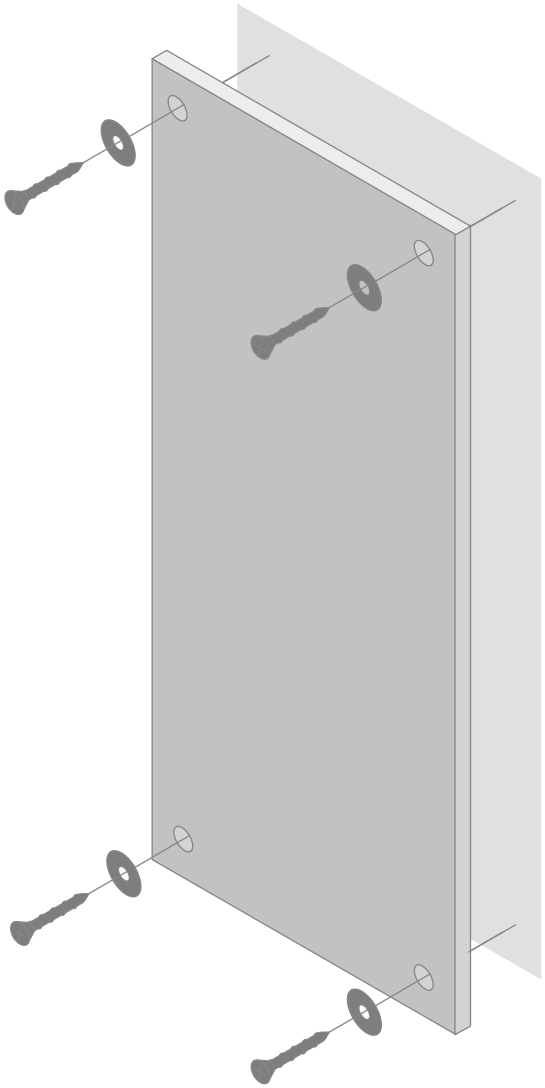
PET panels can be secured with mechanical fasteners such as nails, screws, or staples where suitable. Use fasteners compatible with the substrate. A key advantage of mechanical fastening is that it can be removed completely without leaving residue, which allows full recycling of the panels. Do not over-tighten fasteners, to avoid denting or bulging the panel surface. Do not use self-tapping screws to hang large panels. Anchor nails or screws into battens or other appropriate substrates.



① Clean and prepare surface. Drill holes minimum 15 mm center off-set from each corner and slightly oversized to allow for thermal expansion and contraction. In sure drilled holes have smooth edges.



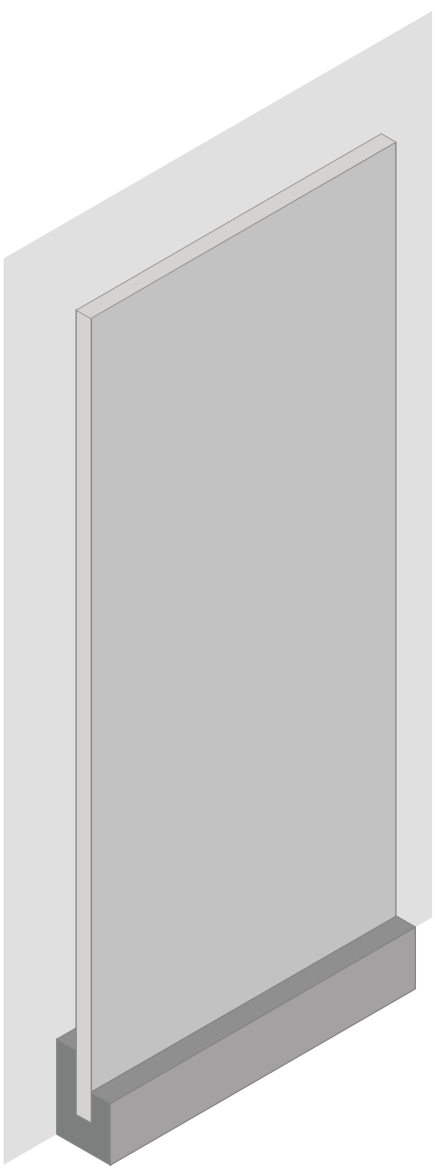
! We do not recommend driving screws into the inner side (edge) of the board.

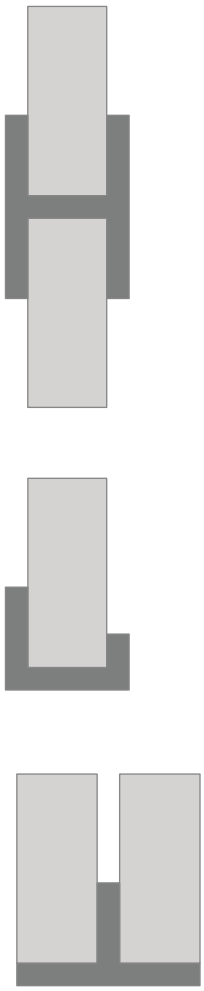


② Fasten panel to wall surface per layout. Use washers for better load distribution and to prevent pull-through. Also, use metal inserts if frequent assembly/reassembly is required.

04 Framing System Installation

PET panels are frequently installed using architectural trims. T-, J-, H-, or L-shaped profiles made of aluminum, stainless steel, or plastic extrusions serve as frames for mounting PET panels on walls or for creating standalone panels. These systems are lightweight, easy to assemble, and eliminate the need for non-recyclable adhesives and tapes.



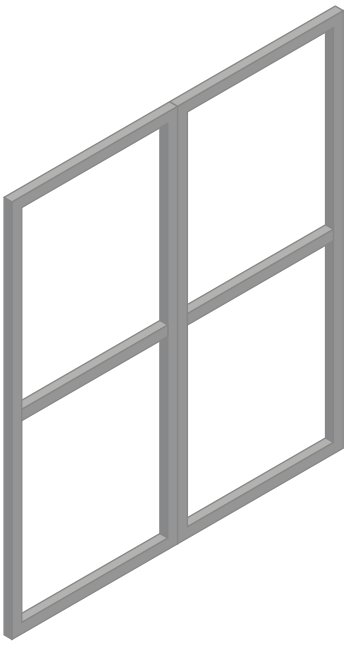


① Clean and prepare the surface according to the adhesive manufacturer's guidelines, then follow the trim manufacturer's installation instructions.

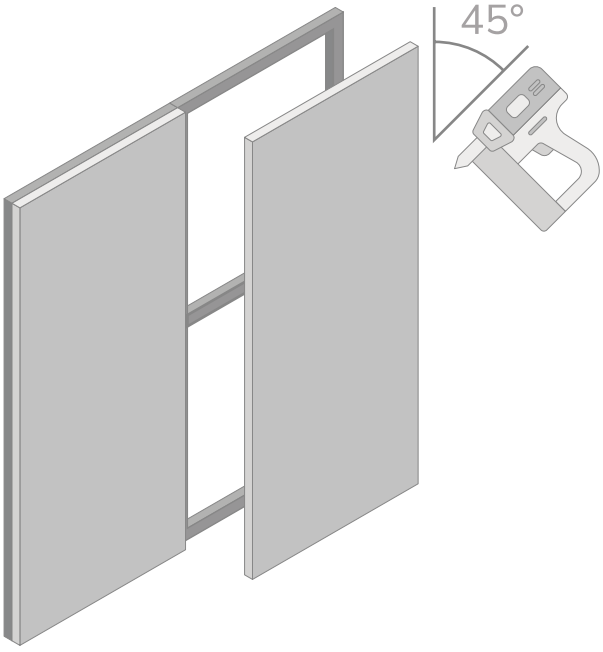
② Panels may be framed with standard J-molding or other trim profiles, as per the molding instructions. Note the metric dimensions of the PET panels when selecting profiles.

04 Staple Gun Installation

For installation using a staple gun, it is essential to prepare a wooden framework. To enhance acoustic performance, consider filling the framework with insulation material.

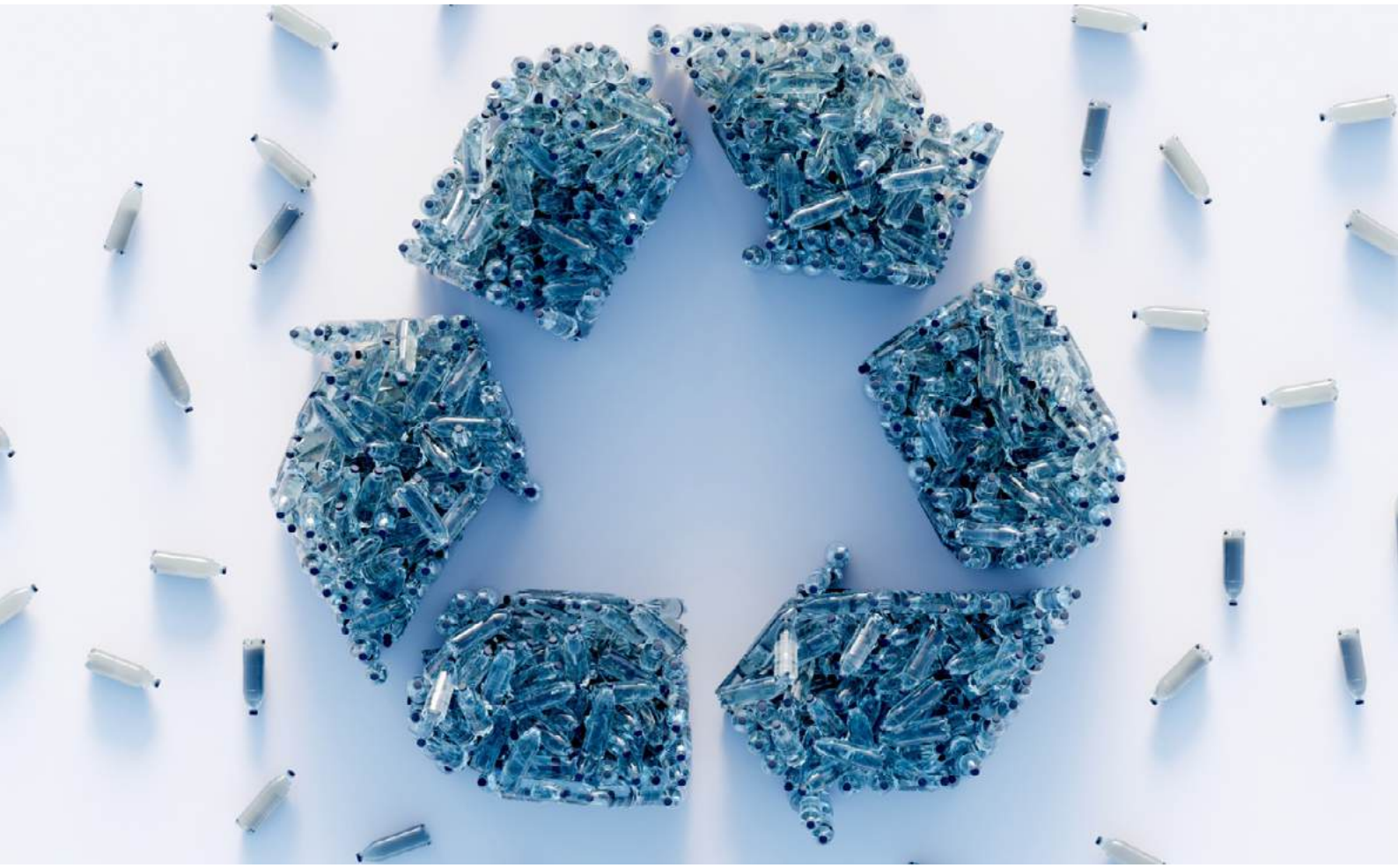


① Prepare wooden framework. This is necessary if you install the panels using a staple gun. Make sure the frame is levelled. You can use a level to check that.



② Install the panels. Test the pressure of the staple gun and adjust it, so that the nails don't go too deep into the material. For better grip of the headless nail, the nails should be applied at an angle of approximately 45°.

05 Life After Life



PET

PET is made from collected, compressed, shredded, and melted recycled plastic bottles, which are turned into plastic fibers. These fibers are needle-punched together in layers to make a sturdy sheet of DeFelt® felt.

Now the next step is up to you!

We have already taken the first step by using recycled material for our products. When you no longer need the product, you can give it a second life by finding a new use for it, or dispose of it in the appropriate plastic waste container. Before disposal, remove glue, nails, and other materials that must not end up in the plastic waste container. Panels installed with mechanical fasteners or framing systems can be removed without residue, which makes recycling easier. For panels installed with adhesive, remove as much of the adhesive as possible.

Together we can do more! Recycling is a simple step that has a huge impact on our planet.



Discover Felt World!

Design a unique interior with DeFelt® acoustic structural panels made from post-consumer recycled PET and certified with multiple environmental accreditations. DeFelt® panels enable you to create custom sound solutions such as drop ceilings, office dividers, walls, desks, lamps, and much more. Tailor your interiors to your specific needs with DeFelt®.

Go to DeFelt®'s Website
Explore Our Products & Felt Samples!

www.defelt.com

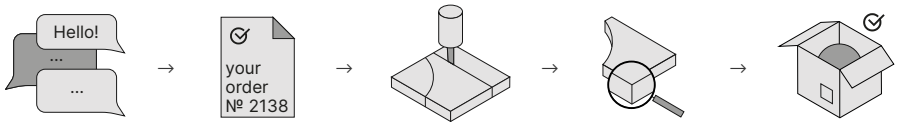
07 Ordering

Planning a Larger Project?

Before placing your order, ask our Sales Team for the complete DeFelt® PET Felt Colour Catalogue.

Ordering

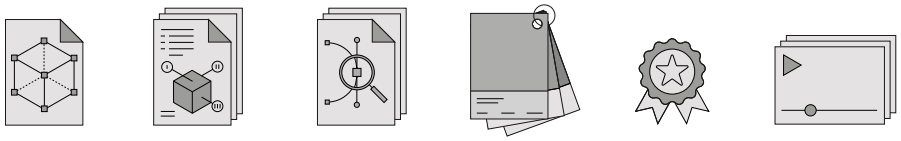
Our team of consultants is ready to answer your questions. We strive to fulfill orders as quickly as possible, so we kindly ask for the most detailed description of your inquiries. We would be glad to guide you through the ordering process.



Consulting → **Ordering** → **Production** → **Quality Control** → **Delivery**

Digital Library

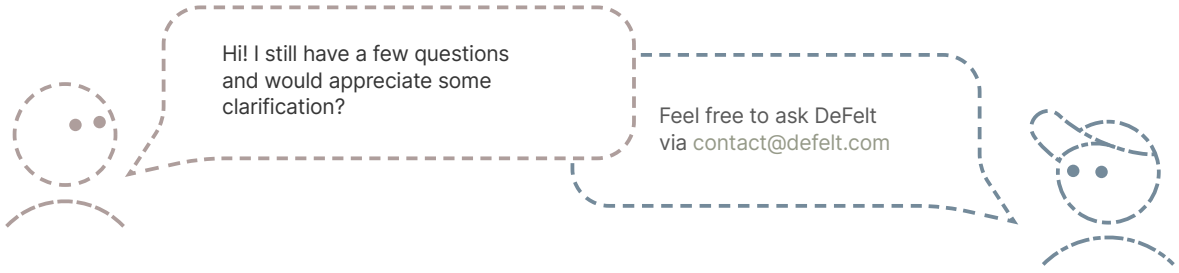
We maintain a library that offers a comprehensive range of data and detailed information about all our products. It is designed to help you find answers quickly and support you in making informed decisions.
We invite you to explore it here: *defelt.com/resource-library/*



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Contact Us!

We are here for you. You can reach us via email or by phone, and we will be happy to answer any questions you may have. Be sure to follow us on Instagram and LinkedIn as well!



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Do you have any questions? Contact us!

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