Ecoustic® Panel Installation

The installation guidelines are applicable to the following Ecoustic® products:
Ecoustic® Core
Ecoustic® Duo
Ecoustic® Panel 8mm, 13.5mm, 25mm, 50mm
Ecoustic® Print
Ecoustic® Screen
Ecoustic® Solid Colour (SC) 9mm, 12mm + 24mm
Ecoustic® V Panel + Tiles 9mm, 12mm + 24mm
Ecoustic® Velour Panel 9mm, 15mm, 25mm + 50mm
Ecoustic® Workstation SC Prints

Please read the entire Installation Guide + watch our Ecoustic installation video on http://www.Instyle.com.au/video/ecoustic.html before installation.
- INSTYLE recommends installation by an experienced and professional tradesperson.
- If you have any questions regarding installation techniques please contact INSTYLE.

Before you cut + install this product
- Check the products have not been damaged during transportation + note any damage on the delivery receipt. INSTYLE is not responsible for any damage during transportation or storage of the product.
- Variations in thickness + fibre mix are an inherent feature of this product and can occur from panel to panel. Each panel should be checked prior to fabrication or installation. Panel joins may be obvious upon installation creating a panelling effect. To minimise these variations, installation may require onsite adjustment by the contractor to achieve a flush and professional finish.
- The receiver of the goods must ensure the correct product, colour + quantity have been received against a reference sample + inspect the product for any defects immediately.
- Panels + boxes are sequenced to ensure colour matching between panels.
- Colour variation in the Ecoustic® Product can occur. To minimise colour variation, Ecoustic® Felt + Velour Panels are supplied and must be installed in box + panel numeric sequence, otherwise installation may result in an unsatisfactory finish.
- Prior to installing the panels must be laid out in order of numerical sequence to check for colour variation. By cutting and installing the panels you are accepting the panels as suitable for use. We regret that once the panels are cut and installed Instyle cannot accept responsibility for any colour variation or other defect.
- Ecoustic® Felt, Velour + Duo Panels are supplied in box + panel numeric sequence to assist in the installation and identification process as per examples below. Ecoustic SC + V Panels are supplied in box sequence.

PANEL LABEL
[Example]

Felt Batch No #:	21822 LGR
Production Date:	23/07/14
Production Seq No #:	50 OF 50
Roll Number:	00001

Panel Number

Labels are located on the back of each panel in the top right corner.

Panels are labelled and packed in production sequence to minimise variation in colour when the panels are installed.

A visual inspection of the colour match is required prior to installing the panels.

BOX LABEL
[Example]

Instyle Contract Textiles INSTYLE	
Ecoustic Panel 13.5mm	
Product Width	1210 mm
Product Length	2720 mm
Fabric Colour	L/GREY
Qty Per Box	5
First Panel No:	1
Last Panel No:	5
Packed By:	Mike
Box No:	1 / 45

Panel Sequence Number within Box

Each panel is numbered individually, panels are arranged in order within the box.

From first panel in box
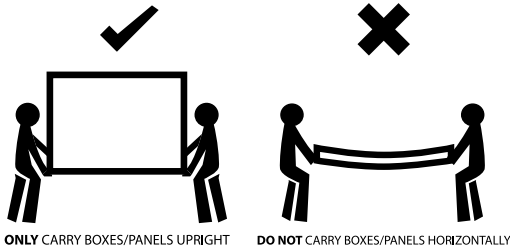**To last panel in box**

Box Sequence Number
Install in box sequence number.

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Transport
- Transport horizontally and top load only.

Handling + Storage
- Ecoustic® products are a semi-rigid product and care must be taken when handling and storing these products so to avoid damage. Boxes and panels should be handled with care and carried vertically upright by two tradespeople.

ONLY CARRY BOXES/PANELS UPRIGHT   **DO NOT** CARRY BOXES/PANELS HORIZONTALLY

- Wear clean gloves when handling the products to prevent any soiling/marking.
- Avoid bending or flexing the panels as this can cause creasing.
- When removing the panels from the box, lift the panel off the panel below (do not drag panel across the panel below or it may cause a score / scratch mark on the panel face).
- Ecoustic® product must be stored indoors, in a clean, dry, cool and well-ventilated area.
- Do not store directly on a concrete floor or any other surface that emits moisture.
- The entire panel must be laid flat on a solid, horizontal, dry surface. Do not store the panels on their edges.
- Take care to keep both sides of the panels clean during storage.
- Keep workbenches clean to avoid soiling and scratching the products.
- Before cutting the products remove and inspect the entire panel for defects. Then recover to protect the panel during fabrication.
- Avoid exposure to heat 65°C (150°F) or greater. Do not store Ecoustic® product near radiators, steam pipes or in direct sunlight.

Tools Required
- Gloves, cloth, tape measure, utility knife, Festool Saw with metal cutting guide, metal guides, marker, construction adhesive, contact adhesive, drop sheet, smooth carpet roller, aluminium strips, drill, wall mates, screws, square, laser, rivet, paint spatula.

Surface Preparation
- Before installation, ensure the walls and surfaces are clean, dust free and free of imperfections (dents and cracks should be filled and sealed with suitable interior grade materials).
- We recommend wiping down the wall surface with a clean, damp cloth.

Measuring + Checking
- Before installation, measure the wall or ceiling area and check the installation plan.
- Check the length of each wall section, as most walls are not perfectly straight or level.
- Place a level to check if the wall runs out. If it's not sufficiently level, then you may need to make good the walls or mount the panels to split battens.
- All Ecoustic® products (except Ecoustic® V panels) must be measured and squared-up prior to installation. Check the panels are square and if required, cut a straight edge using a long blade utility knife or Festool Saw and metal cutting guide. Then cut panels to the appropriate length.

Important Notes
- All Ecoustic® Panels are to be fitted and installed with the correct top-to-bottom orientation consistently, to avoid any variation in colour and pattern. It is important that the direction of print pattern is taken into consideration when planning the installation. Mark the back to ensure all panels are installed with the correct and consistent orientation to avoid any colour and pattern variation.
- Only vertical orientation is recommended for installation of Ecoustic panels. Due to typical lighting conditions, horizontal installation can highlight ledging / joins between panels.
- Ecoustic® Products (except Ecoustic® V panels) require squaring off and trimming to size onsite.
- Where the wall area cannot be divided into an increment of 1200mm, it is important to consider the placement of the smaller panel(s), either at one end or two equal smaller panels at each end if the panels at each end are to be mirrored either side.
- All Ecoustic® products must be installed in the correct sequence. Please refer to the box sequence number and install the Ecoustic® Felt, Velour + Duo products according to the box sequence number and the order in which the Ecoustic® products are packed, or if labelled, install in numerical sequence as detailed on the back of the panel.
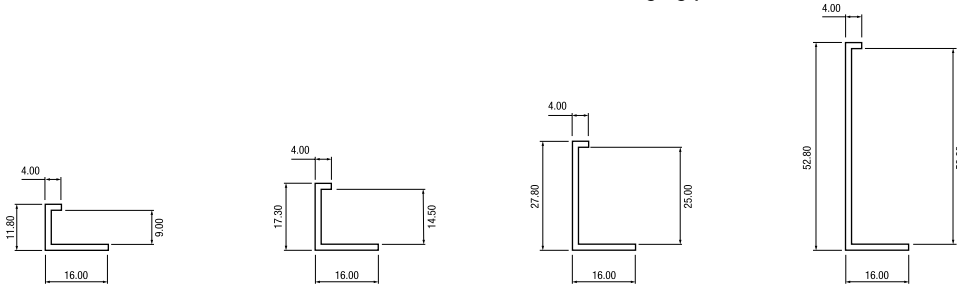
Installation - Ecoustic® Prints
- Ecoustic® Prints are hand printed onto Ecoustic® Panel, Screen + Workstation SC Prints. All printed panel and screen products will be supplied with an unprinted border around all sides of the print and must be measured, squared up and trimmed from the print edge on all four sides, even when using the edging profiles.

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- All print products will need to be trimmed according to the trimming instructions for each print supplied with each delivery and on our website. Do not measure and trim from the edges of the panel and screen.
- On a cutting table, check prints are square and if required, take a straight edge between the pattern at both ends and trim. Then cut to the appropriate length taking the pattern repeat into consideration.
- Due to the artisan nature of the hand printed process, there may be slight variations in the prints so always check panels side by side for correct pattern matching prior to cutting and installing.
- Trial fit panels and check for pattern matching as well as thickness variances. To achieve a flush finish, space out any thinner panels if required (refer to Installation – Butt Joining Method pg 4).
- Joins may be obvious upon installation and there will be a panelling effect.
- Apply contact adhesive, clean off any spills and wait the drying guide time before installing panels according to the sequence number.
- Ecoustic® Prints are designed to pattern match in the full width from panel to panel in the horizontal direction. Note: The patterns are railroaded for Ecoustic® screens.

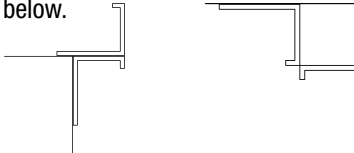## Installation – Ecoustic® Edging Profiles
- Ecoustic Panels are installed with natural anodised aluminium edging profiles which are available for each panel thickness.

- If the perimeter of the series of installed panels are not abutted to a wall, ceiling or floor, it is necessary that aluminium edging be used to enclose the exposed edges of the panels. Intermediate panels in the series must be tightly butt joined to enclose panel edges.
- The edging profiles can be used back-to-back, either butted firmly against each other or with a space between to create a shadow line detail as per the diagrams below.

- For external corners, the edging profile can be overhung from the wall corner edge as per the diagram below. For internal corners, the edging profile can be affixed by measuring the outside dimension of the relevant edging profile from the corner as per the diagram below.

- Mark position of edging according to the panel width and measure and cut edging to the same size as the wall length. If necessary, drill an extra hole so the edging can be fixed to the wall at each end. Line up the edging and mark the position for the screws. Drill holes, insert wall mates, and then drill screws to fix.
- If the wall is not level, the edging may need to be fixed firmly together, either on or off the wall.
- All Ecoustic® products must be measured and squared-up prior to installation.
- Cut the Ecoustic® product to the required size. The panels must be installed individually and installed according to the sequence number.
- Lay a drop cloth onto the floor before applying adhesive.
- Trial fit panel to wall, then apply contact adhesive to the adhesive manufacturer's instructions + clean off any spills.
- After waiting the drying guide time, tuck the panel into the edging and lightly run your hand or a smooth carpet roller across the entire panel to ensure adequate adhesive transfer and a strong bond. Repeat this process for the next panel.
- Edging must be installed two edging lengths at a time.

Installation – Ecoustic® T Trim

- T Trims can generally be tapped into panel junctions of installed 12mm, 13.5mm, 15mm, 24mm, 25mm, 50mm panels.
- T Trim can be used to conceal junctions within 12mm SC panels, including Ecoustic Timbre panels. Please note the T Trim depth is 13mm, therefore the trim can be used with 12mm SC Panel in either of the following styling options: Expressed with T Trim protrusion approx. 1mm beyond the surface of the 12mm SC panel or surface flush via the use of 1mm approx. packers behind the 12mm SC panels

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- Step 1: Measure the panel junction length. Ensure T-Trim length is suitable for exposed panel area. Cut Ecoustic® to length if necessary and align T-Trim to Ecoustic® panel junction
- Step 2: If the void between adjoining panels is larger than the arrow-shaped head of the Ecoustic® T-Trim or the T Trim is not holding in position, carefully apply small beads of adhesive within the panel junction void. Ensure adhesive is applied in accordance with adhesive manufacturers specifications, and is unable to reach the exposed panel surface. Softly tap Ecoustic® T-Trim into panel junction.
- See also Ecoustic® T Trim Installation instructions.

Installation - Butt Joining Method for intermediate panels in a series
- All Ecoustic® products must be measured and squared-up prior to installation.
- Lay a clean drop cloth onto the floor before applying adhesive.
- All Ecoustic® products must be installed in the correct sequence.
- We recommend panels to be installed individually for ease of installation. This includes the application of adhesive and rolling the panel.
- Panel thicknesses can vary by 1 – 2mm approx. therefore check the thickness of the panels required to fit a wall or space and trial fit a few panels by using a slow-drying construction adhesive and check for variances at the eyeline level.
- If there are variances, some panels may need spacing to achieve a flush finish. Use either double sided tape, a thick strip of construction adhesive, or alloy strips to the back of the panel to space it out.
- On a clean drop sheet, carefully spray or brush on contact adhesive to entire panel and wall installation area. Clean off any adhesive spills if required.
- To ensure adequate adhesion and a tight join, adhesive can be applied to the wall along the butt-joins with a paintbrush. Care should be taken not to apply excessive adhesive along the joins as this can leak at the seams when pressure is applied.
- Ensure the adhesive has tacked-off sufficiently then fit the Ecoustic® Product to the wall. Where joining panels with a butt-join it is recommended the panel is fitted firmly to the join first, then smoothed out to the edges applying even pressure to ensure adequate adhesive transfer and a strong bond.
- Gently press or use a smooth carpet roller and roll the panels towards the butt-joins, then roll the entire panel to ensure adequate adhesive transfer and a strong bond, until it is flush with the other panels.

Cutting
- Important: Cutting + machining techniques must be trialled on a piece of scrap prior to cutting the panel to ensure the highest possible finish.
- Always use sharp and clean blades.
- Always use slow, consistent feed rate.
- Hold sheet firmly while cutting to minimise vibration; use just enough clamp pressure to prevent vibration.
- Feed against the rotation of the blade or tool.
- Proper safety equipment must be worn at all times.
- Do not cut with a dull blade or cutter.
- Do not apply excessive clamping pressure.
- Do not use a blade with side-set teeth.
- Do not remove safety guards from equipment.

Machine Cutting
- As Ecoustic® product is made from 100% PET, it has characteristics similar to plastic and overheating may cause it to melt or fuse slightly on the heated contact points. To reduce heat while cutting or trimming the Ecoustic® product, make several passes rather than trimming 'deep' through the product.
- Consider the tool speeds so that the Ecoustic® product does not melt from frictional heat. Generally, best results are achieved when using the highest speed at which overheating of the tool or product does not occur.
- Hard, wear-resistant tools with greater cutting clearances than those used for cutting metal are suggested. High-speed or carbide-tipped tools are efficient for long runs and provide accuracy and uniformity of finish. Bring the blade to full speed before starting the cut. Secure the Ecoustic® product during cutting operations to minimise vibration.

Sawing
- Any of the following saw types should be satisfactory for cutting Ecoustic® product: festool saw and metal cutting guide, circular saws and skiptooth band saw.
- Blade design plays an important part in successful sawing of Ecoustic® product. A skiptooth band saw blade is preferred because the wide gullet provides ample space for the plastic chips to be carried out of the kerf (the cut made by the saw). For best results, the teeth should have zero rake and some set. For a curved cut, the blade should be narrower and have more set than for a straight cut. The blade must be kept sharp to prevent melting or chipping of the sheet, and the blade guide should be placed very near the cut to minimise vibration.
- A circular saw is preferred to a band saw for straight cuts even though it tends to generate more heat.
- A perforated saw blade will run cooler than a solid blade. It is essential that the spindle bearing be tight so that the saw will run true.
- Ecoustic® product can also be cut in other ways including traditional workshop tools such as a router with oscillating knife, die cutter or even using manual techniques such as cutting with an art knife.
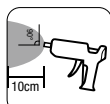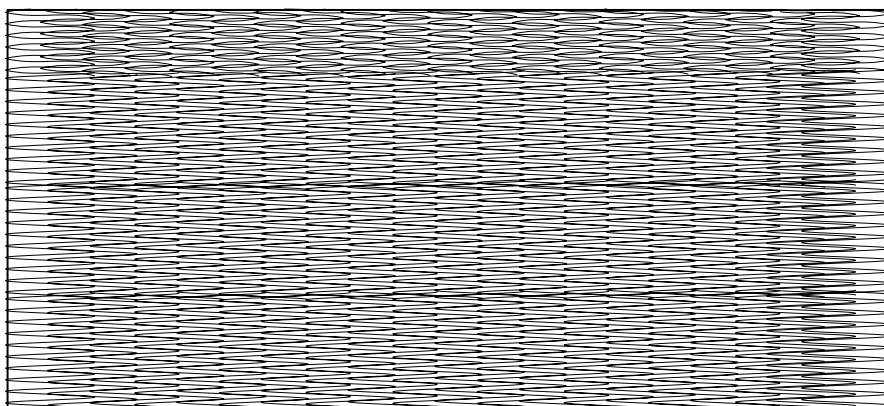
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Drilling (This applies only to Ecoustic® Panel: 8mm, 9mm, 12mm, 13.5mm, 15mm, 24mm + Ecoustic® Screen)
- Drill bits must be sharp and clean.
- For best results reverse the drill to anticlockwise motion
- Proper safety equipment must be worn at all times.
- Do not apply excessive clamping pressure.
- Do not remove safety guards from equipment.
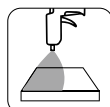- Do not drill Ecoustic® Panel: 25mm, 50mm.

Fixing
- Ecoustic® product can be fixed by glue.
- There are many options with using adhesives; however these leave some residue on the Ecoustic® product that must be removed when recycling the panels.
- Water based or solvent type adhesives can be used to adhere Ecoustic® product. All common substrates including plasterboard, timber, MDF, block and concrete must be sealed prior to application of the adhesive.
- The installer must ensure that the adhesive supplier has proven that their product is suitable for fixing Ecoustic® product to the intended substrate.
- We recommend a test panel be used on the substrate to ensure a satisfactory bond.
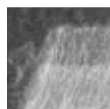
Wall Fixing - Tensorgrip X41 Adhesive

Spray Tensorgrip X41 about 10-20 cm away at a 90 degree angle to the wall surface, applying a uniform, even coat of adhesive to obtain 80-100% surface coverage.

Spray evenly on the back surface of the panel with a 50% overlap for full coverage. Apply one even coat of adhesive onto matting with no overlap. Leave surfaces to tack off for 1-2 minutes, or until dry to touch using the back of your knuckles.

Place surfaces together and apply even pressure to establish the bond. A roller can be used where appropriate to ensure even pressure across the entire bond surface.

✓
You should be able to clearly see the web pattern of the adhesive on the surface of your substrate (as above).

✕
If you can see air bubbles or build up of adhesive in your spray pattern, then you are either spraying too close to the surface of the substrate or moving your gun too slowly.
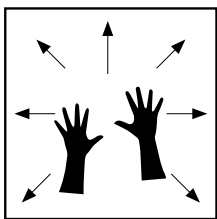
✕
If the spray pattern on your substrate looks wispy (like spiderweb) then you are spraying from too far away. Move your gun a little closer to the substrate.
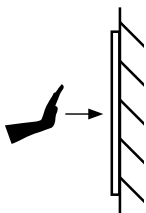
✕
If the spray pattern is thin and looks drawn out, then you are spraying too quickly.

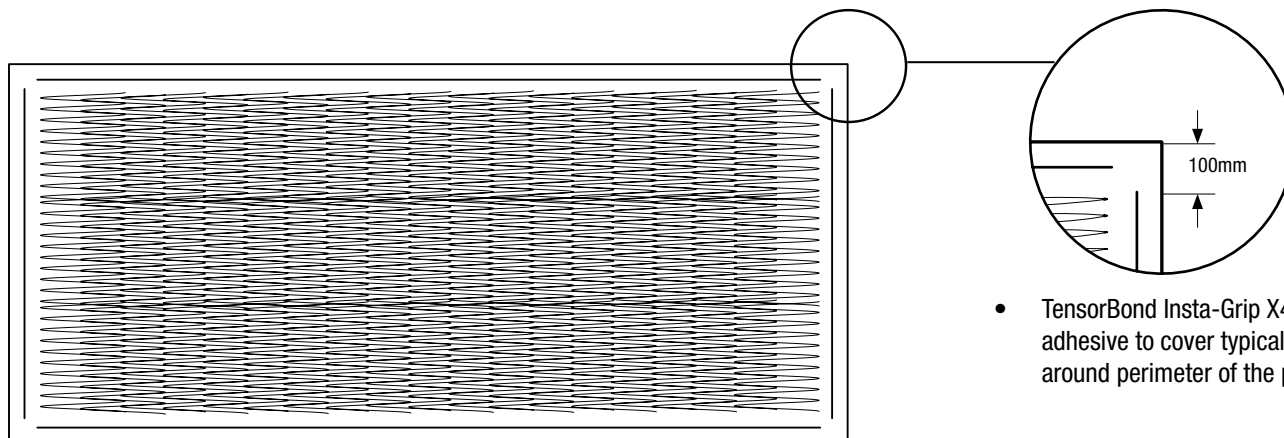INSTYLE

Wall Mounting Method - Tensorgrip X41 Adhesive

Adhere surfaces and press together with adequate pressure. A roller is recommended to apply a uniform pressure to achieve maximum strength. Allow 24 hours for the adhesive to fully cure.

Bond panel to substrate, working from the middle of the panel outwards

Push panel firmly with clean hands

Ceiling Fixing - Tensorgrip X41 Adhesive + TensorBond Insta-Grip X40 Adhesive

100mm

- TensorBond Insta-Grip X40 adhesive to cover typically 100mm around perimeter of the panel

Tensorgrip

X41
Acoustic Panel
Spray Adhesive

Follow the instructions as per Wall Fixing with Tensorgrip X41 Adhesive as well as applying TensorBond Insta-Grip X40 Adhesive

Ceiling Fixing - Bead Pattern TensorBond Insta-Grip X40

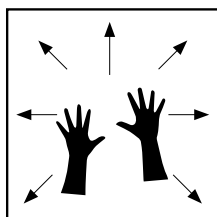Hold TensorBond Insta-Grip X40 gun close to the surface at a 45° angle

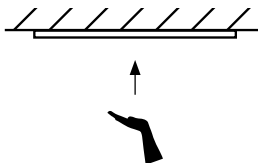Apply strips of adhesive approx 10-20cm apart to one substrate

Place surfaces together and apply gentle pressure to allow the foamy adhesive to spread across the surface of the substrate

Ceiling Mounting Method - TensorBond Insta-Grip X40 Adhesive

Adhere surfaces and press together with adequate pressure. A roller is recommended to apply a uniform pressure to achieve maximum strength. Allow 24 hours for the adhesive to fully cure.

Bond panel to substrate, working from the middle of the panel outwards

Push panel firmly with clean hands

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IMPORTANT - Wall + Ceiling Fixing Tensorgrip
- Maximum bond strength is achieved with 100% coverage and recommended coat weight of 20 dry grams per sqm
- If necessary, spray another coat of adhesive in areas that appear to need more adhesive
- Spray both surfaces to be bonded, for eg. one surface vertically and the surface horizontally
- Allow enough time for the glue line to tack-off (1-2 minutes or until dry but tacky to the touch without any transfer of wet adhesive to fingers) before placing panels and creating the bond
- Apply the panel to create the bond within the open time of the Tensor Grip X41 adhesive (within 45-60 minutes)
- If you have exceeded the open time, spray a fresh glue line and adhere within the open time
- Full surface pressure must be applied to bonded panel using a roller within 10 minutes of the panel being applied to facilitate full adhesive transfer and a strong bond
- Initial bond is strong enough to allow for cutting or trimming immediately if needed
- The bonded panel should be smooth and free of air bubbles, wrinkles, gaps and / or blemishes

Customisation
- The thickness, dimensions and textile lamination of Ecoustic® product can be customised to your special requirements to reduce labour time and costs. Please contact Instyle for pricing and minimum order quantity details.

If you have any queries please contact your local distributor.

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SAFETY DATA

Description
Nonwoven and/or thermally bonded and laminated 100% polyester panel type products used for sound absorptive linings for commercial fit out applications, wall + ceiling panels, workstation screens, partitions, pin board substrates, baffles + Hang Ups

Product Range
The Ecoustic® collection is available in various densities and thicknesses of 8mm, 9mm, 12mm, 13.5mm, 15mm, 24mm, 25mm + 50mm.

Composition
Organic long chain synthetic polymer

Hazards
Classified as Non-Hazardous according to the criteria of the Australian Safety and Compensation Council ASCC. Approved criteria for classifying Hazardous substances. [NOHSC: 1008] 3rd edition

First Aid
Swallowed / Eye / Skin / Inhaled: No special precautions

Storage + Transport
Refer to Transport, Handling and Storage Guidelines in this document.

Disposal
Product is recyclable through our Revive® program. If necessary product can be disposed of in an approved landfill.

Personal Protection
Personal protective equipment including face masks, ear plugs and eye shields should be used when using power equipment to fabricate all substrates.

Ecological Information
Product does not contain any ozone-depleting chemicals. 100% recyclable

Fire/Explosion Hazard
Relatively low flame response. Will not explode. Use any fire fighting appliance. Like most organic materials gives off CO, CO_2 and H_2O during combustion.

National Construction Code Fire Compliance
Individual product fire test results are included on product descriptions and copies of the reports are available from INSTYLE.

Fire Fighting Measures: The material will melt if exposed to temperatures above 250°C. Plastic packaging and facings used may decompose or burn at or below this temperature. If subject to fire, evacuate area and contact emergency services. Use water fog to cool affected packs.

Physical + Chemical Properties
Appearance: Rigid and semi rigid panels
Odour: None
Alkalinity: pH: 7.8 (pH 7 is neutral)
Boiling Point: N/A
Melting Point: 250°C
Vapour Pressure: N/A
Specific Gravity: 1.38
Solubility: N/A
Percentage Volatiles: None
Flash Point: N/A
Decomposition Temp: > 250°C
Lower/Upper Exposure Limits: N/A
Moisture Absorption: Exposure to an atmosphere of 50°C and 95% RH for four days gives a moisture absorption of less than 0.2% by volume.

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Ecoustic® Care Instructions

The care instructions below are applicable to the following Ecoustic® products:
Ecoustic® Core
Ecoustic® Duo
Ecoustic® Panel 8mm, 13.5mm, 25mm, 50mm
Ecoustic® Print
Ecoustic® Screen
Ecoustic® Solid Colour (SC) 9mm, 12mm + 24mm
Ecoustic® V Panel + Tiles 9mm, 12mm + 24mm
Ecoustic® Velour Panel 9mm, 15mm, 25mm, 50mm
Ecoustic® Workstation SC Prints

Please Note
Consideration must be given to any possible effect of the cleaning regime on the underlying glue or backing board. It is recommended that spot cleaning only is used and that it is carried out by a professional cleaner.

Regular Care
- Protect from direct heat and sunlight.
- To prevent dust build up, lightly dust with a soft cloth or vacuum with a soft brush attachment.

Spot Cleaning
- Professional cleaning is always recommended.
- Always test any cleaning products on an inconspicuous area prior to commencing cleaning.
- Blot any excess spills from the material with a dry clean sponge or cloth.
- Treat all stains and spills as soon as possible.
- Most marks can be spot cleaned by lightly wetting the affected area with a mild detergent and warm water solution.
- Do not saturate the panel, screen or felt.
- Do not scrub or abrade the fabric as this will affect the surface finish.
- Once the stain or mark has been loosened then blot the excess solution out with a dry clean cloth.
- Sponge afterwards with clean warm water and mop any excess moisture with a dry clean sponge or cloth.
- The fabric can also be spot cleaned with dry cleaning fluid. Lightly sponge a small amount of dry cleaning fluid and blot.
- Dry away from direct heat and sunlight.
- Avoid the use carpet shampoos.

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