

category	sound absorber
description	ProSonic pinboard tiles
part code	AC600



AC600 ProSONIC PINBOARD TILES create a 10–12mm-thick decorative interior wall covering, available in tile form, that will transform noisy school interiors as well as creating a colourful, highly durable and exciting surrounding which improves the learning experience.

The tiles are comprised of polyester fibres thermally bonded in a non-woven

matrix and laminated to a high density non-woven polyester backing.

It has been shown that many children cannot hear properly in the classroom and in fact in more recent years many schools have a high number of hearing impaired students trying to learn in the same acoustic environment as children with normal hearing.

Technical Specification

Product	AC600 Acoustic pinboard tiles
Colour	See chart on next page
Nominal size	600 x 600mm
Packaging	6 tiles per box
Weight	Typically 1600g/m ²
Nominal thickness	10–12mm
Flammability	Euroclass B,s1,d0 (Class 0 fire rated)
Fabric texture	Fine velour

10mm Absorption Details

125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
0.03	0.08	0.18	0.40	0.73	0.98

Benefits:

- Excellent thermal insulator
- Easy to install
- Impact resistant
- Highly durable
- Velcro, staple and pin receptive
- α_w 0.25 (H), (NRC 0.40)
- Safe, non-toxic and non-irritant
- Available in adhesive-backed or plain



page 2 – colour options

page 3 – **important** installation instructions for adhesive-backed tiles

page 4 – installation instructions continued

Colour options

NB: due to inconsistencies of printing inks and graphic representations, these colours are a guide only. Please request a sample before ordering.



HARBOUR HOME



ATLANTIC BLUE



CORNFLOWER



LAGOON



PALE WHEAT



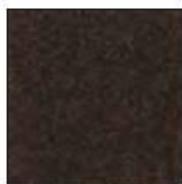
POPPY RED



PRAIRIE GRASS



MOONBEAM



OTTER



FOG



PAMPAS



KINGFISHER



STONE



CABERNET



TOMATO



PALM



MULBERRY

IMPORTANT

INSTALLATION INSTRUCTIONS

IMPORTANT NOTE

These pinboard tiles feature a strong instant-grab adhesive backing. Once applied, tiles **cannot** be repositioned and if removed may cause damage to paint/plasterboard or other surfaces.

Tiles should not be applied to concrete-block or brick walls, unless the walls are fully rendered. For unrendered walls we recommend the use of standard tiles in conjunction with a contact-type adhesive, rather than the self-adhesive product.

Where concrete-block or brick walls have been fully rendered, these self-adhesive tiles can be used following the instructions supplied below.

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

These guidelines are given in good faith to help avoid problems caused by the most common installation errors. Custom Audio Designs Ltd accepts no responsibility for installation actions taken or not taken.

There are many aspects of installation not covered in these instructions that Custom Audio Designs assumes are general building knowledge to an experienced installer. These installation guidelines are strictly recommendations and are not intended to be a step-by-step, foolproof installation checklist.

If you have any questions about installation techniques for your particular project, please contact us.

Tools Required

A Stanley-type knife and blades, straight edge, hand roller or a domestic rolling pin, cutting board or flat cutting surface.

Storage

Tiles must be laid flat and stored indoors on a solid, flat, dry surface. Do not stack tiles on a concrete floor or any other surface that emits moisture. Optimum storage conditions are 18°C and 45%-55% relative humidity.

Inspection

Inspect tiles for any defect immediately. Do not install tiles of unacceptable quality. Custom Audio Designs will not be responsible for installation or removal costs of unacceptable tiles. Where more than one box of tiles is required, ensure they are the same batch as indicated on the box. Batch numbers should be recorded for future reference.

Before Installing/Pre-Conditioning

Prior to installation, remove the packaging and allow the tiles to acclimatise to the room temperature and humidity for approximately 1-2 hours. Ideally, both the room temperature and humidity during acclimatisation and installation should be the same as the final operating conditions.

Installation Conditions

Tiles should only be installed on prepared surfaces. Minimum installation temperature is 18°C and maximum relative humidity 75%.

Uneven Surfaces

Installation over uneven surfaces will result in less than complete adhesion to the wall substrate, thus creating the potential for air pockets to form behind the tile. High and low spots should be levelled to provide an even wall surface.

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SURFACE PREPARATION

General

Prior to installation, ensure all surfaces are flat, dry, sound and free from dust or other contaminants. All surfaces should be washed with a detergent that will not leave a residue and should be allowed to fully dry. In particular, older painted surfaces or wallpaper may have a film of grease or other contamination that may need to be cleaned off.

In general, most surfaces should be sealed with an appropriate sealant. Where a sealant is used, gloss surfaces which are not porous, such as high gloss paint and some wallpapers, should be lightly scuffed first.

Sealers/primers must be applied and then allowed to fully cure prior to installing the tiles. For more advice on specific applications please contact us. We recommend that one tile be installed first to ascertain the suitability of the surface and preparation.

Concrete/Rendered Concrete Block

High and low spots should be levelled to provide an even wall surface. Concrete block walls must be fully rendered. New concrete walls must have had sufficient time to cure – generally 28 days. Walls must be free of hydrostatic pressure, moisture and excessive alkalinity. Efflorescence (white powder) on the surface must be removed. In any of these instances the surface should be cleaned and a suitable sealer/primer applied and allowed to dry.

All dust must be removed by wiping down with a wet cloth and the surface allowed to thoroughly dry. Concrete walls may be subject to condensation or low surface temperatures and must be dried/warmed prior to installation.

INSTALLATION

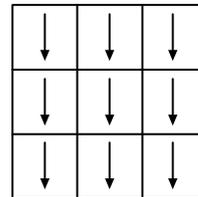
Do not remove the release film on the tiles until immediately prior to installation. Once the film has been removed the tiles must not be exposed to any moisture or dust.

Tiles have a pile direction indicated by the arrows on the back of the tiles. They must be laid with all the arrows in the same direction for uniformity or, as per the diagram, in a checkerboard style.

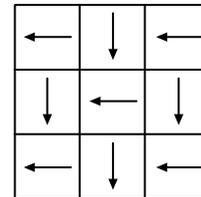
NB: Carefully plan out your installation and ensure you have the required number of tiles for the job before starting.

We recommend installing the tiles with the arrows pointing down. Where different colours are used together, all tiles should be laid in the same direction.

All in one direction



Checkerboard style



Mark out in pencil or chalk on the wall the area for your tiles. An easy method is to stretch string covered with chalk tightly across the perimeter and centre point and 'snap' the taut string so that chalk lines are made on the wall, ensuring guidelines are level and at right angles.

It is a good idea to lay the tiles out on the floor to check the pattern BEFORE removing the release film. Adjust the centre-lines to ensure that no tiny gaps occur at the edges.

Start laying the tiles from the centre of the area. Remove the release-film and hold the tile at an angle to the wall; apply one edge to the line and then place the tile onto the wall (fig.1). Apply firm pressure from the centre of the tile out to the edges to ensure good adhesion.

A roller must be used to firmly push the whole surface of the tile to the wall.

Subsequent tiles should be laid up against the previous tile, holding the tile at an angle to the wall and then placing down.

To cut tiles in along walls, place the tile to be cut under the next tile closest to the wall prior to adhesion and use that tile as your cutting guide. Tiles can be cut with a sharp knife and straight edge.

Re-roll all tiles firmly when the job is complete to ensure good adhesion.

