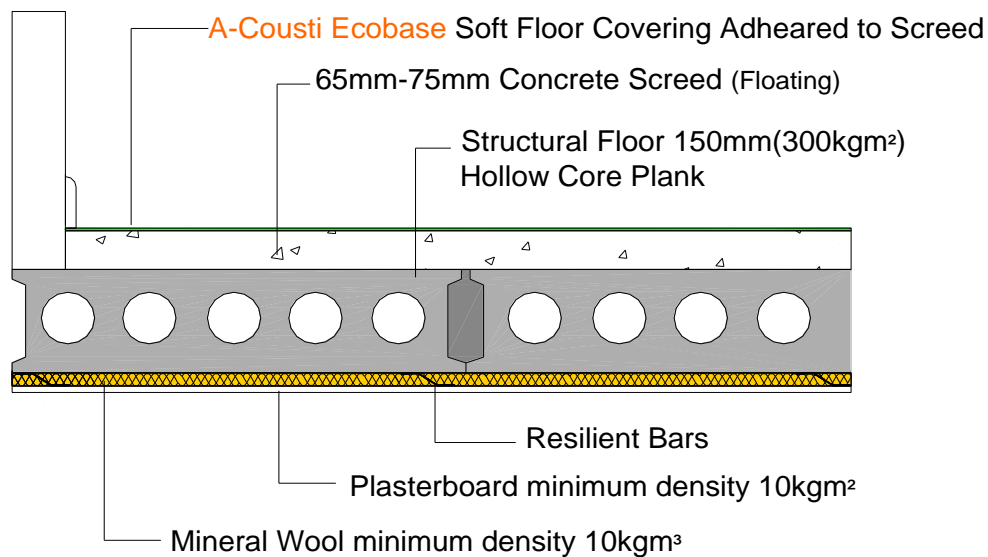


## Technical Installation Guide Number 13

# A-Cousti Ecobase Soft Floor Covering

### Description

**A-Cousti Ecobase** Soft Floor Covering has an overall uncompressed thickness of 5mm and produces not less than 17dB reduction in impact sound pressure level when measured in accordance with BS EN ISO 140-8:1998 and calculated in accordance with BS EN ISO 717-2:1997. E-cousti Ecobase is approved under ADE for floor types 1.1C and 1.2B with a minimum mass of 365kg/m<sup>2</sup>. For beam and block construction seek advice on mass values from the manufacturer of the system.



### Product Design

**A-Cousti Ecobase** resilient foam has been developed to enhance the range of E-cousti acoustic products and solutions. It is a closed cell foam that not only provides superb acoustic performance but also has important qualities in resisting water absorption, preventing fungal growth, mildew and bacteria growth and is completely inert. Traditional open cell foams act just like a sponge and absorb up to 33% of their own weight in water, trapping air within the structure and creating a breeding ground for fungi, bacteria and mildew. Once wet the foam will never completely dry out.

### Product Features

The closed cell structure and the homogenous, compact process skins of the **A-Cousti Ecobase** foam combined with the water repellent properties of polyolefins result in a water absorption of less than 1%, when tested in accordance with ISO 2896, and a water vapour transmission co-efficient  $\mu$ -value of greater than 3500 when tested in accordance with ISO 1663.

## Product Benefits

Tests performed in the laboratory showed that the **Ecobase** foams do **not** contribute to fungal growth. This is explained by the fact that it contains no organic nutrients and therefore does not provide a culture medium for fungi, even under high humidity. The foam is inert and does not rot or decay, even when exposed to high humidity and elevated temperatures. Furthermore, it is produced without the use of plasticizers and other fast migrating additives, which would cause breakdown in adverse conditions. Ecobase foam acts as an all in one resilient acoustic layer and a damp proof membrane.

This saves the cost of a supplying and installing a separate DPM.

## Technical Details

**A-Cousti Ecobase** is an inert resilient physically cross-linked closed cell polyolefin foam sheet. There is a fine cell structure with two process skins, supplied in roll form 1.85M wide by 30M long.

**A-Cousti Ecobase** has a maximum load rating of ca. 5K/Pa. (As a guide, a typical concrete screed thickness 70mm corresponds to ca.1K/Pa load).

○ Thickness	ISO 1923	5mm
○ Impact Sound Improvement index	ISO 140/4 and 717/2 (ΔLw)	
	65mm Screed	17DB
	70mm Screed	18dB
○ μ value (23°C, 0-85%rh)	ISO1663	7000
○ Water absorption (28 days)	ISO2896	<1.0%

## Technical Installation Guide

### Resilient Underlay

Ensure that the concrete is properly cured and free from residual moisture. Whilst **A-Cousti Ecobase** is moisture resistant it is not advisable to allow moisture to condense under the underlay.

Sweep the surface thoroughly and remove all extraneous material. If the surface is rough concrete apply a thin levelling screed where the product is applied as an acoustic underlay.

E-cousti Ecobase may be loose laid or bonded to the substrate.

Approved Document E requires the soft floor covering to be bonded to the substrate. Measure and cut **A-Cousti Ecobase** approximately 25mm oversize to allow it to be turned up the perimeter wall to isolate the stiff surfaces of the wall and floors from each other.

It is recommended that an All Purpose Contact Adhesive suitable for all types of surfaces is used. Use a roller to spread a thin coat across the substrate, leave for up to 30 minutes until touch dry, and then roll out Ecobase making sure there are no ripples or air pockets.

Use a brush or roller to smooth out.

Ensure that joints are tightly butted and seal with a suitable tape to hold in place.

Turn under skirting and trim off to isolate the skirting from the stiff floor surface.

*Updated April 2010*