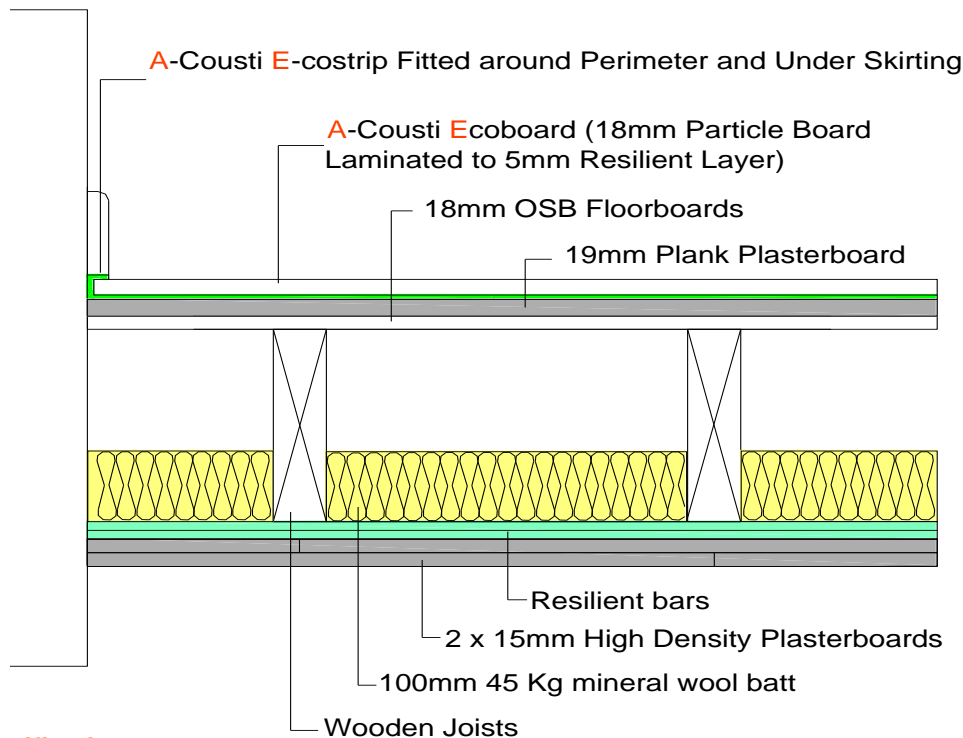


Technical Installation Guide Number 16

A-cousti Platform System with 19mm Plank

Description

A-cousti Platform system plus plank is designed to reduce airborne and impact noise as part of a timber separating floor construction. It consists of A-cousti Ecoboard and 1 layer of 19mm plank above an 18mm OSB structural floorboard.



Specification

Component:	23mm A-cousti Ecoboard
Board Size	2400mm X 600mm
Board weight:	17.57kg/m ²
Weight/m ²	12.2 kg/m ²
Component:	19mm Plank Plasterboard
Test results	Airborne 54 RwdB (+Ctr) Test Certificate L205-060 Impact 54 Lnw Test Certificate L205-061

Feature	Benefit
* Comfortably exceeds Approved Document E requirements	* Removes the fear factor from testing
* Only 61mm thick	Up to 27mm less than batten systems
* Closed cell resilient layer	moisture resistant and hygienic in critical clean areas
* Cost competitive	Reduces total cost

Product Design

A-cousti Ecobase resilient foam has been developed to enhance the range of A-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 μ -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 Installation Guide

1. Ensure that the product is always stored under cover in dry moisture free conditions.
2. Handle with care when moving around the site or unpacking to avoid damage to the edges and corners.
3. The building should be watertight before installation.
4. Ensure sub-floor is thoroughly swept and free from extraneous material.
5. Lay 19mm plank over existing floor, tightly fitting to avoid any gaps for sound to penetrate.
6. Since the foam laminate is moisture repellent there is no requirement for a vapour control layer.
7. Lay boards with resilient foam layer down.
8. Measure up room and cut boards 5mm short of wall to accommodate A-cousti flanking strips.
9. Stagger the joints ensuring that the tongue and grooves are tightly fitting to avoid any gaps for sound to penetrate.
10. Joints must be glued using adhesive and left for 12 hours before walking on.
11. Under no circumstances should the boards be fixed through to the sub-floor.
12. Insert flanking strip as you go and ensure the boards are pushed tightly against the strip. Do not leave any gaps in the strip and ensure that at no point the boards of the floating layer contact the walls of the structure as this will allow flanking and structural transmission of sound and impair the acoustic performance of the floor.
13. Complete the installation by turning the protruding part of the flanking strip over the board and trap below the skirting to completely isolate the floor from all other hard surfaces. Trim off any excess with a sharp knife and seal the junction with A-cousti Fix and Seal.

Downlighters

Where a metal frame ceiling is used with A-Coustiquilt laid over the top it is recommended that only fire protected and acoustic rated products are fitted. Always fit as per the manufacturer's instructions, but in addition where A-Coustiquilt (or any other mineral fibre product) is fitted in the ceiling system ensure there is sufficient airflow around the downlighters. This is achieved by cutting away a hole in the A-Coustiquilt of 60mm greater diameter than the downlighter diameter.

In order to accurately locate the holes measure up the position of the hole using the grid of the metal frame as the reference point to establish the co-ordinates for each hole. There should be a minimum of 30mm clearance between the downlighter and the quilt in all directions.

When using proper acoustic rated downlighters there will be no reduction in the acoustic performance of the system. However, downlighters do create an obvious flanking path if not correctly fitted with adequate care.

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