Qubi Acoustic Floor Board 23C

Product Data	
Description	Acoustic Overlay Floorboard
Thickness (mm)	23
Dimensions (mm)	2400*600*23
Resillient Layer	5 mm Cork
Facing Board	18 mm P5 Chipboard
Weight kg/board	17,0
Edge Detail	T&G4

PART E Compliance

Robust Standard Detail
FFT5 over floor structures EFC-1, EFC-2 and EFS-1

Features

The Qubi Acoustic Floor Board is a high-performance sound-reducing panel, combining durable chipboard with a resilient cork layer—one of the most sustainable materials available. Designed for use as both a structural flooring element and an overlay board, it enhances acoustic insulation while contributing to eco-friendly building solutions.
When installed as an overlay, the **Qubi Cork** layer not only improves impact sound reduction but also compensates for surface unevenness, ensuring a stable and uniform finish.
This innovative panel delivers **exceptional acoustic performance** in both renovation and new construction projects, making it an ideal choice for sound insulation systems in separating floors.

Acoustic Performance	
Impact Noise L'_{nTw} (dB)	Airborne Noise $D_{nT,w} + C_{tr}$ (dB)
52	54

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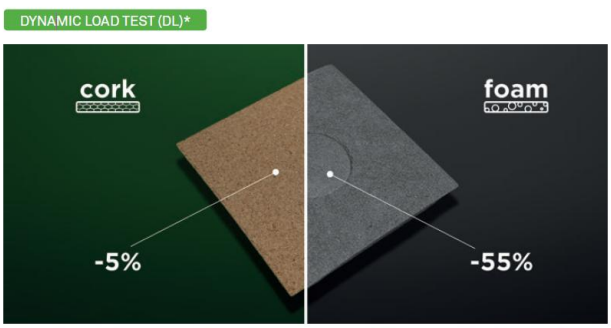
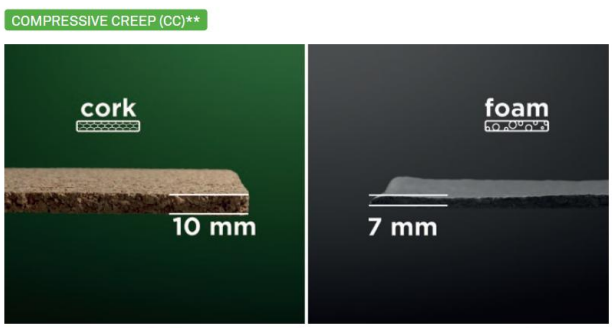
Long-term durability
cork vs foam underlayments

Installing a cork underlayment is the best option to ensure your floors' durability while improving buildings' comfort and efficiency.
This layer of material, applied between the concrete (or the previous flooring, in case of renovation work) and the final flooring, is essential to ensure the durability of the floor over time, and to prove this, we run the following tests:
Test #01 · Dynamic Load Test (DL)*
The dynamic load test is a laboratory test that simulates the pressure exerted on the floor by foot traffic, trolleys and office chairs with casters, among others. To be effective, the underlayment must be able to withstand this pressure without losing its absorption characteristics.
To assess the material performance, we submitted a sample of cork, and another composed entirely of foam, both 10 mm thick, to 100 000 cycles at 75 KPa pressure.
Test #02 · Compressive Creep Test (CC)**
The creep test determines the weight that can be placed on a given floor over time, using as reference a period of 10 years. We are talking about furniture weight, for example.
This means that, as it is compressed over the years,
cork maintains its thickness and, consequently, the performance of the system where it is applied, whereas with foams (PE, XPS, or PP), whenever pressure results in cell breakage, the underlayment loses density and effectiveness.



Result: cork proved to be more resilient, with just 5% thickness loss after 100,000 charge cycles.



Result: cork delivers superior performance and shows almost the same thickness after being compressed. Less than 10% of thickness loss.

*tested by a certified laboratory
**test made at i.Cork Factory press (not in accordance with creep standard)

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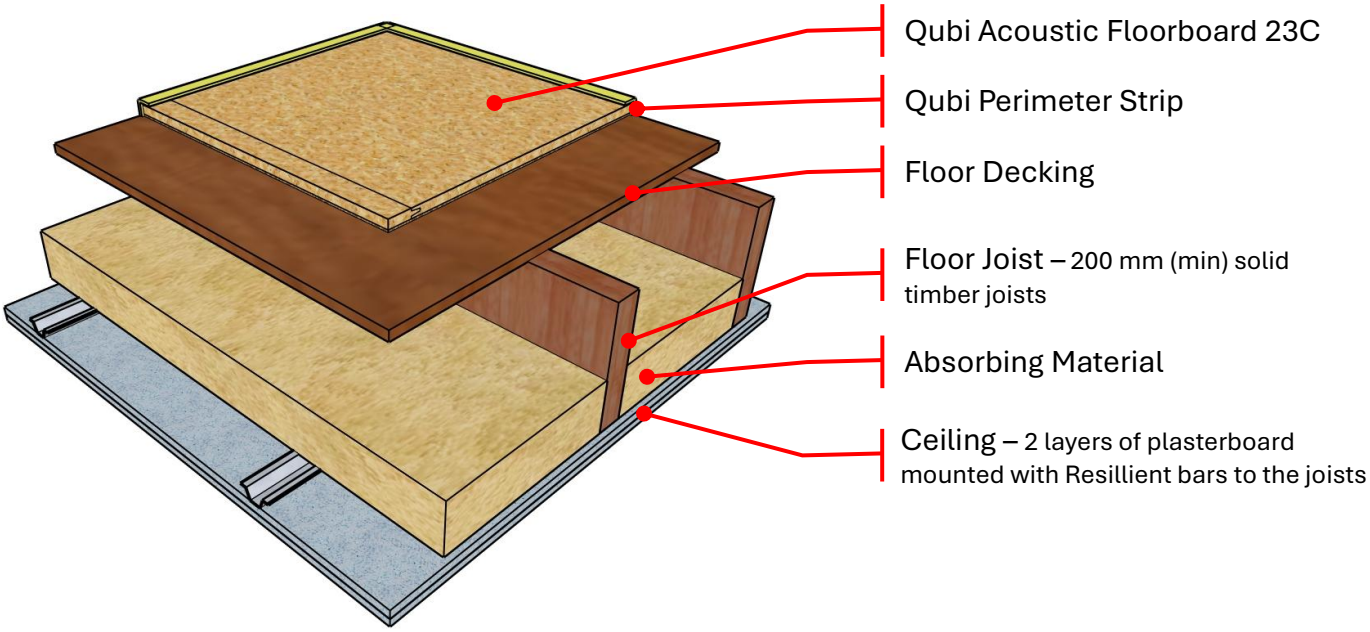

Qubi Acoustic Floorboard 23C Installation Guide

To ensure optimal performance, follow these steps for the proper installation of Qubi Acoustic Floorboard 23C

Preparation

1) Ensure the building is watertight before beginning installation.
2) Check that floors are level, clean, and free of debris.
3) Remove or flatten any protruding nails or screws from the subfloor.
4) Fill any voids between walls and the floor to create a stable surface.
5) Measure the room and cut boards 8-10mm short of the wall to allow space for Qubi Perimeter Strip 30
6) Install Qubi Perimeter Strip 30 around the perimeter to prevent sound transmission between the floor and walls or skirting.

Installation

7) Place Qubi Acoustic Floorboard 23C with the resilient foam layer facing down.
8) Ensure boards are tightly butted together for a secure fit.
9) Stagger the joints, ensuring that the tongue and groove connections fit tightly to eliminate gaps where sound could penetrate.
10) Apply adhesive to all board joints and allow 12 hours for it to cure before walking on the surface.
11) Do not use any mechanical fixings to attach the boards to the subfloor, as this may compromise acoustic performance.
12) Ensure that the floating floorboards do not come into direct contact with walls or structural elements to prevent flanking sound transmission.
13) Once installation is complete, fold the excess Qubi Perimeter Strip 30 over the edge of the boards and secure it beneath the skirting to fully isolate the floor from hard surfaces.
14) Trim any excess material with a sharp knife and seal the junction with acoustic sealant.

Final Steps

Once all boards are installed:
- Remove spacers and ensure that Qubi Perimeter Strip 30 is correctly positioned.
- Any pipes or services that pass through the floor must be acoustically isolated using Qubi Perimeter Strip 30.
- Skirting boards and plasterboard should not be in direct contact with the Qubi Acoustic Floorboard 23C.
- All load-bearing and non-load-bearing walls should be built on the concrete subfloor, not on the Qubi Acoustic Floorboard 23C. Walls must be isolated from the floor using an appropriate isolation strip.
- Trim any excess flanking material before final floor finishes.
- Allow the adhesive to cure fully for up to 48 hours before applying any floor finishes or subjecting the floor to foot traffic.

By following these guidelines, Qubi Acoustic Floorboard 23C will deliver optimal acoustic performance and longevity.

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