"Sustainable acoustic panels for creating a calmer and healthier home environment."



The panels are designed for consumers who are looking for a solution with smooth, natural aesthetics and easy installation.

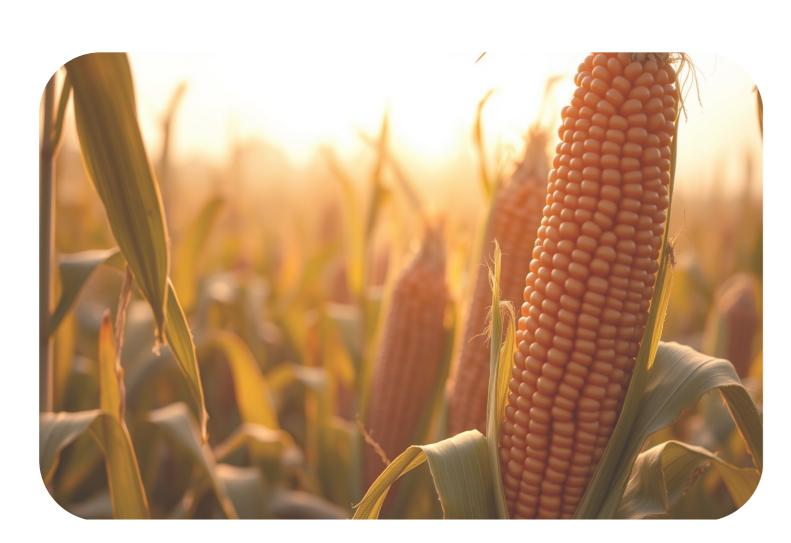
The Project

The project addresses issues around resource efficiency, and waste disposal while taking advantage of the natural properties of the raw material. Creating a new, healthier alternative to the consumers to choose from.

Research

The agricultural industry only in the European Union generates 21 million tonnes of underutilized corn waste. CORA utilizes this waste stream to create a new and innovative acoustic panel, that aims to replace the conventional petro-chemical acoustic alternatives on the market.

Through extensive research and testing of the properties of sound absorption and mechanical, a new composite material was created. The panels are produced by compressing small corn cob particles under high pressure in the presence of wood adhesive to create the bond.



Gyongyver Nemesszeghy
Designing sustainable acoustic panels using corn cob waste: A step toward Circular Design
3rd of March, 2025
Integrated product design, MSc

Cora offers a more sustainable acoustic solution against noise pollution. It tranforms waste, while minimizing the environmental harm.

It represents a step towards greener building practices, providing both, performance and a peaceful evironment for the end-users.

