



SUMI Panel

ACOUSTIC PANEL MANUFACTURED FROM HDPE PLASTIC WASTE

KEY WORDS

ACOUSTIC PANEL,
SUSTAINABLE
DESIGN,
RECYCLED HDPE

DESCRIPTION

Acoustic panel designed and manufactured from HDPE plastic waste, aimed at interior space applications. The approach combines design, materiality, and acoustic performance, transforming plastic waste into a functional, aesthetic, and sustainable product that contributes to both sound control and creative waste valorization.

POTENTIAL BENEFITS OR IMPACTS

Improvement of indoor acoustic comfort;
Reuse of plastic waste;
Applied sustainable design

TECHNOLOGY MATURITY LEVEL (TRL)

TRL 4: laboratory validation

AREA OF APPLICATION

Plastics
Interior design
Architectural acoustics

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