

USE OF
POLYESTER FIBRE PANELS
FOR
ACOUSTIC CORRECTION
OF INDOOR ENVIRONMENTS

Sara Casini
Co-owner - R&D Manager
31/01/2019 Context - Barcellona



MAIN MARKETS OF PRODUCTS APPLICATION

**MANIFATTURA MAIANO** SpA
FELTS & WADDINGS SINCE 1960

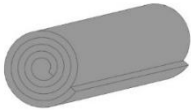


FURNISHING

MATTRESSES



FOOTWEAR



INDUSTRIAL



NURSERIES

**MANIFATTURA MAIANO**
ISOLANTI ECOSOSTENIBILI

**BUILDING
INSULATION**



*Manifattura Maiano produces **nonwovens** for technical applications in different markets*

THERMAL AND ACOUSTIC INSULATIONS IN NATURAL OR RECYCLED TEXTILE FIBERS FOR BUILDING SECTOR

RECYCLED POLIESTER



SINTHERM FR



HEMP FIBER



NATURTHERM-CA



RECYCLED TEXTILES



RECYCLETHERM Km0



SHEEP WOOL



NATURTHERM-WO





PROJECTS IN ACOUSTIC CORRECTION OF INDOOR ENVIRONMENTS

ASCUSPET

YEAR: 2015-2017

OBJECTIVE: DESIGN AND DEVELOPMENT OF **POLYESTER FIBER PANELS** FOR
ACOUSTIC CORRECTION OF INDOOR QUALITY



The research has demonstrated that Polyester fiber panels can **absorbs noises** and improve the **acoustic quality** of interior environments.

Even at low frequencies by adopting specific criteria for installation

Study presented at
International Congress
on Sound and Vibration



NEW

FROM RESEARCH TO THE MARKET



SINTHERM FR
SOUND CONTROL



PANEL FOR ACOUSTIC CORRECTION TO SIGHT OF INDOOR ENVIRONMENTS

Manufactured using **85% recycled polyester fibers** made from plastic bottles

CONTEXT MEETING – BARCELONA 31/01/2019



SINThERM FR
SOUND CONTROL

Example of installation

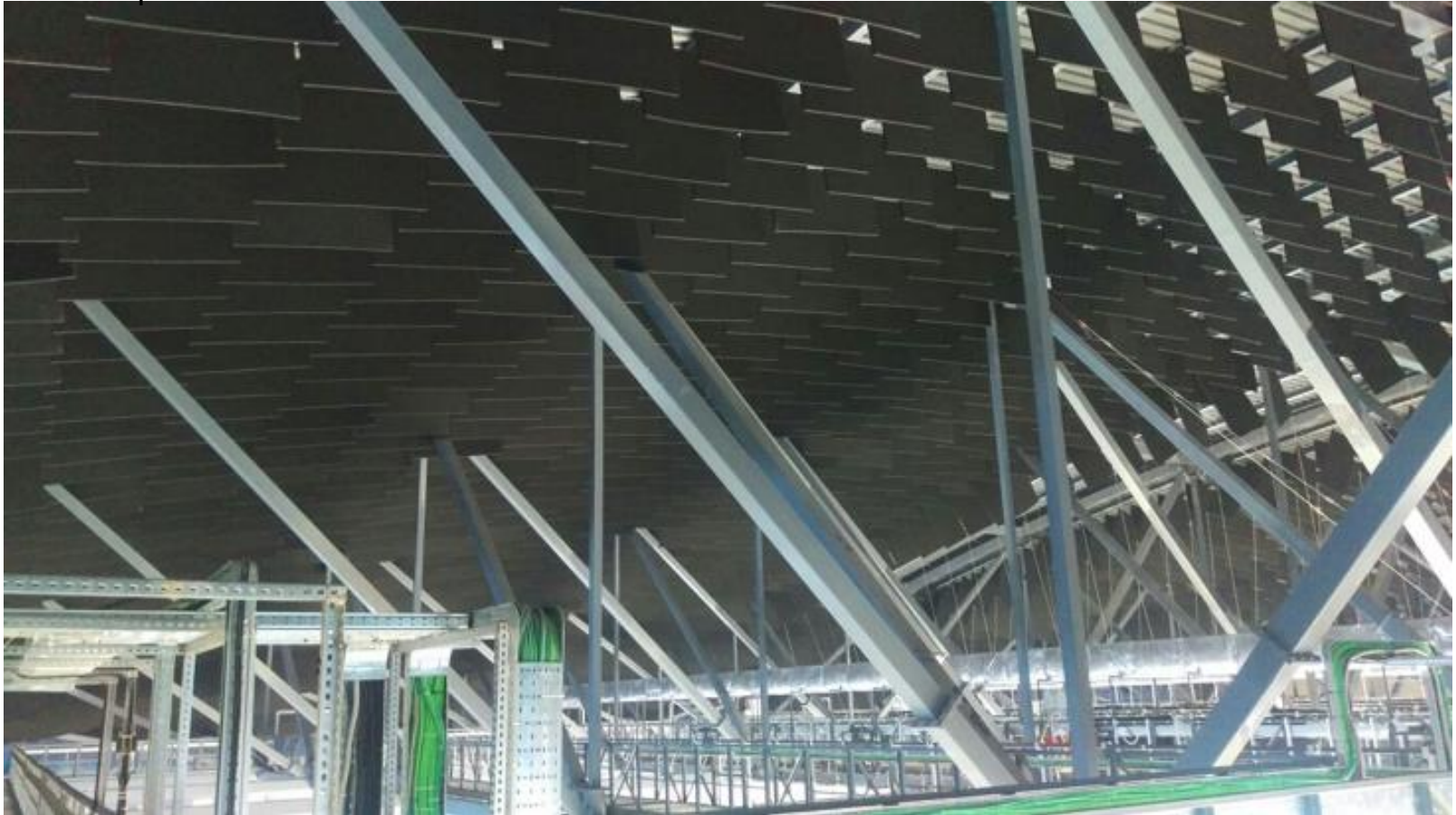


CONTEXT MEETING – BARCELLONA 31/01/2019



SINThERM FR
SOUND CONTROL

Example of installation



CONTEXT MEETING – BARCELLONA 31/01/2019





SINThERM FR
SOUND CONTROL

Example of installation



ONGOING
PROJECT

PROJECTS IN ACOUSTIC CORRECTION OF INDOOR ENVIRONMENTS

NANECO

YEAR: 2017-2019

OBJECTIVE: Definition and testing of an innovative kit for **acoustic correction of schools.**
To solve the main **acoustic problems** of **school buildings**

Co-financed



PARTNERS:



UNIVERSITÀ
DEGLI STUDI
FIRENZE

DIEF
DIPARTIMENTO
DI INGEGNERIA
INDUSTRIALE

NEXT
TECHNOLOGY
TECNOTESSILE
SOCIETÀ NAZIONALE DI RICERCA R. L.

ONGOING
PROJECT

PROJECTS IN ACOUSTIC CORRECTION OF INDOOR ENVIRONMENTS

NANECO

Co-financed



Main points of the project:

- The new insulating panel will combines **superior noise absorption** with **aesthetic finishing**.
- Easy installing **kit** for schools
- Investigation on acoustic performances of panels empowered with **nanofibers layers**

ONGOING
PROJECT

PROJECTS IN ACOUSTIC CORRECTION OF INDOOR ENVIRONMENTS

NANECO

Co-financed



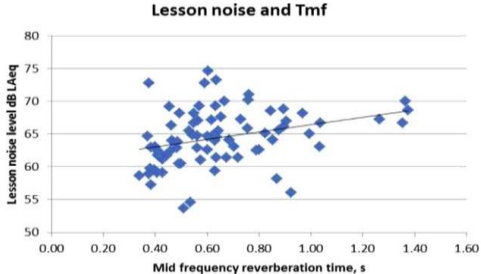
Polyester panel



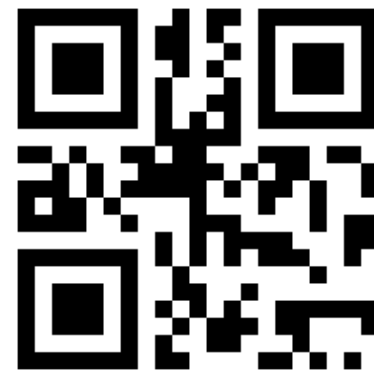
suspension system



Predictive calculation
of product quantity needed



Installation kit specific for schools



www.maiano.it

maiano@maiano.it

GRAZIE DELL'ATTENZIONE

Dott.ssa Sara Casini
Manifattura Maiano S.p.A
Via Maiano 207 Capalle, Firenze

