

# WRAPPED WOODEN PROFILES





## Why MODEMA

- Ultra fast production capabilities assuring efficiency, flexibility and short delivery times.
- ISO 9001 , ISO 14001 , ISO 45001 and ISO 50001 Certified.
- Comprehensive range, innovative design knowledge, high level precision tooling.
- PUR adhesive (for high heat resistance, exceptional surface quality and high peel strength).
- Systematic colour-matching (to attain consistency of product) and efficient customer response.
- Modema environmental impact and social responsibility base materials from chosen suppliers in Europe (sharing the same core values) minimizing environmental damage by lowering environmental pollution.
- FSC® is dedicated to the promotion of responsible forest management worldwide.



### MODEMA

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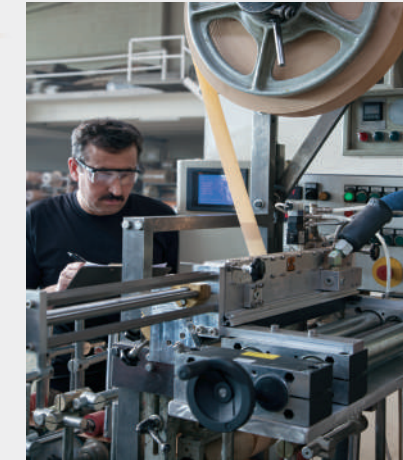
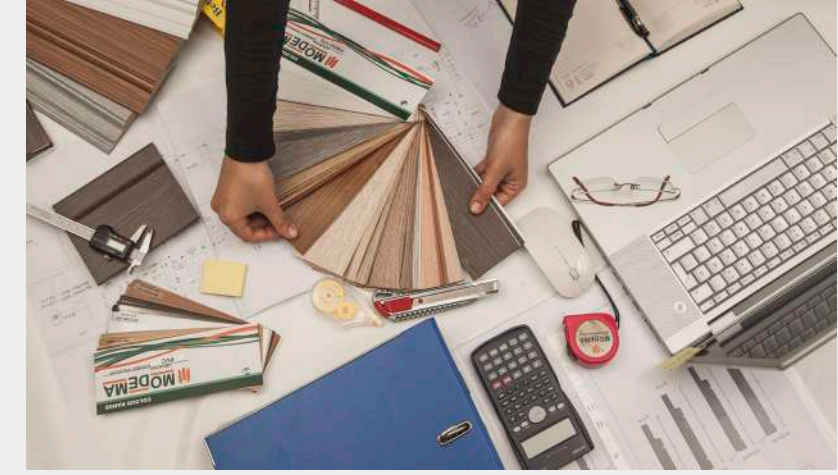
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## Why PET FELT PANEL

- PET felt is an eco-friendly synthetic felt material made from post-consumer recycled bottles.
- It's strong yet soft, lightweight, flexible, resilient, and can be easily formed into various shapes.
- It's also incredibly durable and water-resistant, making it perfect for humid climates.
- It's an excellent choice as an acoustic solution, absorbs reverberation
- It doesn't require frequent cleaning or maintenance and is extremely easy to clean
- Compared to traditional felt material, PET felt has the added benefit of being hypoallergenic, odor free, and non-toxic.
- Easy cutability in the field, It's simple to cut PET felt acoustic panels in the field, to size, making installation a breeze.



## PACKING & DELIVERY

Each panel packed in white cardboard and placed in wooden pallets, width of 1150 mm.

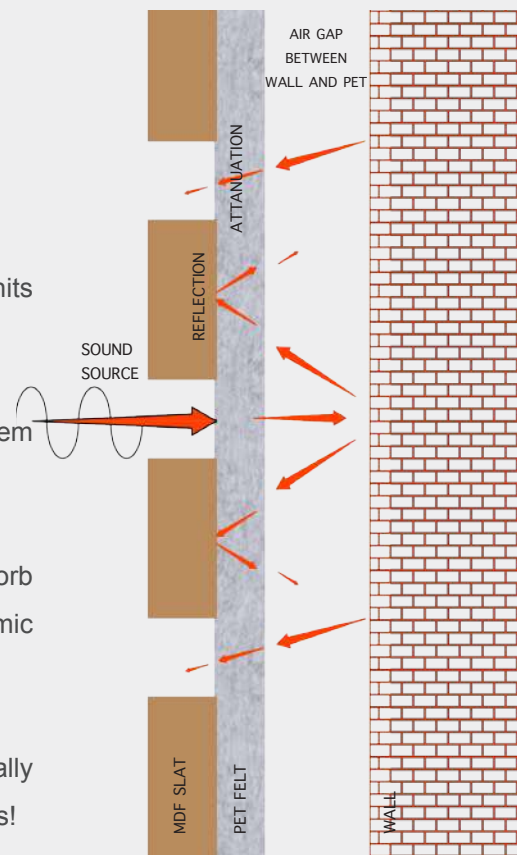
560 mm width boards size fit into inner container size as 4 rows to use maximum space. .

Approx. 1440 board can be loaded into 40' HC for an efficient delivery.



## HOW IT WORKS

- PET felt is a porous material that affects sound waves in a unique way.
- It essentially creates a tortured path where heat is a byproduct of friction.
- When sound waves go through a porous substance like PET felt, the wave hits the fibers and bounces between the little air spaces between those fibers.
- The fibers and air pockets absorb and reflect the sound waves and slows them down incrementally.
- With using a 9mm PET felt product, it can be enhanced its ability to absorb sound by putting an air gap or spacing it further from a wall to improve its dynamic performance.
- In other words, air pockets and positioning help PET felt maintain its aesthetically appealing appearance and acoustic properties. It's all about the laws of physics!



## MEASURES



### SLAT MATERIALS

- MDF
- Softwood

### SURFACE MATERIALS :

- Finish foil
- Thin laminate
- PVC
- Wood Veneer

OVERALL WEIGHT OF PANEL 11 kg -13 kg (+/-10%)

BOARD SIZE 2400 mm x 560 mm  
2780 mm x 560 mm

PET DENSITY 1300 gr/m<sup>2</sup>

PET THICKNESS 9 mm

SLAT THICKNESS : 12 mm

SLAT WIDTH : 26 mm

SPACING : 17 mm

## FIRE RATINGS

The acoustic backing used on the panels is certified to "B -s1, d0"

## PERFORMANCE

Measurement of sound absorption coefficient, spacing 50 mm behind panels

Freq. Hz	a <sub>c</sub>
100	0,09
125	0,10
160	0,17
200	0,20
250	0,30
315	0,44
400	0,60
500	0,74
630	0,90
800	1,10
1000	1,09
1250	1,06
1600	0,95
2000	0,85
2500	0,75
3150	0,77
4000	0,85
5000	0,80

