



CHECK OUT OUR WIDE RANGE OF  
**INSULATION SOLUTIONS**  
REFLECTIVE FOIL INSULATION  
PERFECTLY ADAPTED FOR ROOFS, ATTICS AND WALLS



## OUR STRENGTHS

We are **experts** in our field. **French manufacturing**

Our range of **eco-sourced/eco-recycled MIX insulation products are completely Eco-friendly**

The real hallmark of our solutions is **performance and compliance**

**Improved living comfort** thanks to temperature control

A commitment to research and development to create new **innovative products**

**A wide choice of products** to best meet our customers' needs

High-quality and high-**performance products**

Durable products **guaranteed for 10 years**

**High quality customer service** with a personalised service

**A patented air-cushion effect** for enhanced thermal performance and special stitching for ease of installation. We guarantee our product quality

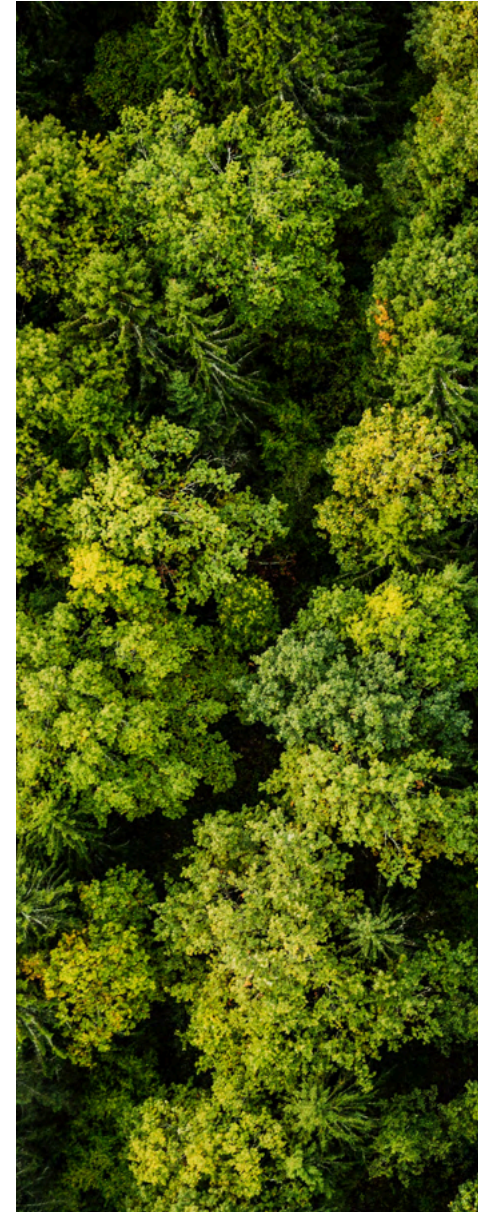
## “ATI ISOLATION : ENVIRONMENTALLY FRIENDLY INNOVATIVE PRODUCTS DESIGNED FOR YOUR COMFORT”

**S**ince 1998 ATI Isolation has been creating cutting-edge insulation solutions that have a proven track record of greatly improving the quality and energy efficiency of buildings.

As a French manufacturer and a recognised player in the Reflective Insulation industry in France and throughout Europe, ATI has continued to expand on an industrial level while remaining committed to working on a human scale. We take pride in maintaining genuine long-term relationships with our customers.

The ATI range of Reflective Insulation products can be adapted to meet all requirements for both new-building and renovation projects. We aim to offer insulation solutions that combine both energy performance with ease and speed of installation. This is also achieved by a special stitching process used with the product.

We at ATI are fully committed to using our expertise to help the environment and the planet. We constantly strive to innovate in an eco-responsible way to contribute to a greener future for us all.





## THE 6 KEY CHARACTERISTICS OF OUR INSULATION

Thermal insulation plays a fundamental role in maintaining the interior temperature of our homes and buildings. For this reason, we decided to develop a wide range of innovative reflective insulation products. These are the **6 key reasons** that makes our products stand out from their competitors.

### Optimum reflection: A heat shield for all seasons of the year

Unlike conventional (thick) insulation, which limits heat flow through due to its thickness, ATI insulation uses metallised films / foil to create a reflective barrier.

This barrier maintains a stable interior temperature no matter what the temperature variation is outside.



## 2

### Summer comfort guaranteed by ATI reflective insulation

#### **A BIT OF BACKGROUND:**

Summer is of course a season synonymous with **sunshine and high temperatures**, and also now with heat waves, which due to climate change occur more regularly and with greater intensity and can leave our homes feeling like hot ovens

In 2022,

# 59%

of French people said that they had experienced an extended period of heat in their home for a 24-hour period or more\*

\* Médiateur de l'énergie, Baromètre énergie-info, 2022

#### **THERMAL SUMMER COMFORT: WHAT IS IT?**

It is the capacity to naturally sustain a comfortable indoor temperature between 26°C and 28°C during the day and a maximum of 26°C at night, as defined by the 2020 national regulation (RE2020)

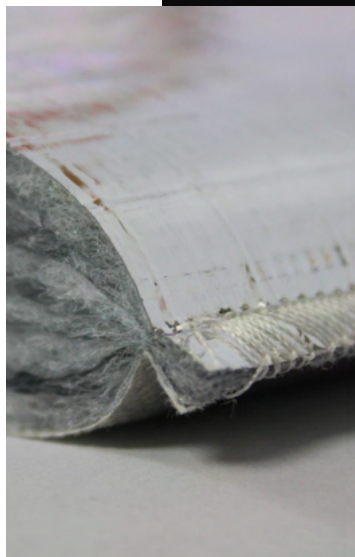


Thermal summer comfort can be influenced by a number of elements, not least of which is the type of thermal insulation being used. ATI insulation improves summer comfort due to a **reflective screen**, which reflects the heat emitted by the sun's rays back outwards and this helps to maintain a comfortable indoor temperature.

# 3

## Thin insulation brings about optimum efficiency

By using a thin layer of our insulation, our product frees up valuable space without compromising on thermal performance and comfort.



### • The Product is both lightweight and flexible:

working comfort is enhanced by the lightness of the product, as well as the special stitches used at each end of the product which hold the product in place and make it easier to lay.

The flexibility of the product also means that it can be adapted to multiple types of structures, offering a versatility of application and improved waterproofing thanks to more precise installation.



### • Watertight, airtight and vapour tight:

depending on the product and application, the membrane acts as a vapour barrier, an under-roof screen or a rain screen. This is truly a 2-in-1 product.

# 4

## A certified product: a guarantee

All our ATI insulation products meet the NF EN16012+A1 standard, making them eligible for energy renovation grants (Home Improvement Grants). As for our cellulose wadding and wood fibre products, they are all ACERMI-certified.

ATI is committed to offering its customers peace of mind thanks to its standardised products that meet market expectations.





## 5 A+ classification: Breathe easier with our Insulation!

Our entire range of products is A+ rated and our insulation is designed to maintain a high-quality indoor environment by minimising emissions of volatile organic compounds and other potentially harmful substances.

## 6 The use of a colour code: A means to simplify product choice

Each family of insulation products is identified by its own unique colour-coded packaging which helps:

- Distinguish between the different product families at a glance
- Quick shelf identification
- Faster Product Range memorisation
- Universal visual communication

## “ CHOICE GUIDE / SOLUTION

| PRODUCT / SOLUTION               | FIELD OF APPLICATION |   |   |   | ADHESIVES |           |                         |                  |
|----------------------------------|----------------------|---|---|---|-----------|-----------|-------------------------|------------------|
|                                  |                      |   |   |   | ALU       | PP ARGENT | ATI FIX PRO TRANSPARENT | ATI FIX PRO NOIR |
| <b>PRO BASIC</b>                 | X                    |   | X |   |           |           | X                       |                  |
| <b>PRO LIN</b>                   | X                    |   |   |   |           |           |                         | X                |
| <b>TECH PRO</b>                  | X                    |   |   |   |           |           | X                       |                  |
| <b>PRO EXCELLENCE</b>            | X                    |   | X |   |           |           | X                       |                  |
| <b>PRO PREMIUM</b>               |                      | X |   | X |           | X         |                         |                  |
| <b>COMBI PRO LIN</b>             | X                    | X |   |   |           | X         |                         | X                |
| <b>FDB 80 - PRO EXCELLENCE</b>   | X                    |   |   |   |           |           | X*                      |                  |
| <b>FDB 80 - PRO PREMIUM</b>      |                      | X |   |   |           | X*        |                         |                  |
| <b>OUATE 80 - PRO EXCELLENCE</b> | X                    |   |   |   |           |           | X*                      |                  |
| <b>OUATE 80 - PRO PREMIUM</b>    |                      | X |   |   |           | X*        |                         |                  |
| <b>AIRFLEX</b>                   |                      | X |   | X | X         |           |                         |                  |
| <b>THERMO-BULLES</b>             |                      | X |   | X | X         |           |                         |                  |

\* Adhesive to be applied to the reflective insulation.

# OUR RANGES



## MULTI-REFLECTOR RANGE PRESENTATION, page 1

### BREATHABLE



ATI PRO BASIC, page 3

1 ATI PRO LIN, page 5

TECH PRO, page 7

2 ATI PRO EXCELLENCE, page 9

### WATERPROOF



3 ATI PRO PREMIUM, page 11

### COMBI PRO LIN



COMBI PRO LIN, page 13

## THE COMBINED RANGE PRESENTATION page 15

### THE COMBINED



4 MIX FIBRE DE BOIS 80 mm OUTDOOR, page 19

5 MIX FIBRE DE BOIS 80 mm INDOOR, page 21

MIX OUATE DE CELLULOSE 80 mm OUTDOOR, page 23

MIX OUATE DE CELLULOSE 80 mm INDOOR, page 25

## THERMO-REFLECTOR WITH BUBBLE RANGE PRESENTATION, page 27

### THERMO-REFLECTOR WITH BUBBLE



6 AIRFLEX, page 29

THERMO-BULLES, page 31

## CUSTOMER SERVICE, page 33

## KTU REPORTS, page 36

# MULTI-REFLECTIVE INSULATION

*Why not try Sustainable Insulation? This is where the perfect balance between comfort and savings can be made.*

Welcome to the age of intelligent insulation that provides a more comfortable and economically intelligent environment. Discover our thin, multi-layer reflective insulation, which perfectly combines efficiency, durability and cost control.

Travel with us into the future of insulation with our multi-layer reflective solutions. Our products combine thermal performance, ease of installation and versatility. Our insulation products are also redefining the standards of energy efficiency.

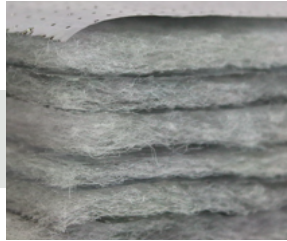
**All our multi-reflective insulations have the following intrinsic characteristics:**



## **Metallised foil**

*Optimum reflectivity.*

The choice of emissivity for each surface is crucial. It is adapted to suit each application. Reflective insulation on the inside reflects heat back into the home, improving winter comfort. Exterior Reflective insulation reflects heat back outwards (for summer comfort).



## **Polyester wadding (PET)**

*the ultimate eco-insulator*

By using 75% of recycled materials, our polyester wadding advocates our commitment to environmentally sustainable products. Its moisture resistance, lightness and eco-friendliness make it a versatile and sustainable choice for insulation.



## **Overlays**

*Guaranteeing durability.*

Using overlays at the ends of the insulation reinforces edges and also improves structural stability which helps provide a precise, easy installation. They also reduce air loss and stop lateral thermal bridges.



**Functional characteristics of all our multi-reflective insulation:**

### **• Minimum thickness:**

Our solutions optimise energy efficiency without sacrificing living space.

### **• Unrivalled flexibility:**

Whether for roofs or walls, our thin insulation products can be adapted to any application. They also offer a multitude of solutions to meet your specific needs.

### **• Quick installation:**

The lightweight, flexible design of our multi-reflectors and the presence of overlays make them easy to install. This in turn reduces labour costs and can be integrated easily into your projects.





# ATI PRO BASIC

## BREATHABLE MULTI-REFLECTOR INSULATION WITH HVP (HIGH VAPEUR PERMEABILITY) UNDER-ROOF MEMBRANE



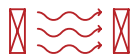
### PRODUCT FEATURES

|                                      |                         |
|--------------------------------------|-------------------------|
| Roll length x width                  | 10 m x 1.5 m            |
| Roll surface                         | 15 m <sup>2</sup>       |
| Roll thickness                       | 53 mm (±10 mm)          |
| Surface mass                         | 0.725 kg/m <sup>2</sup> |
| Roller weight                        | 10.9 kg                 |
| Emissivity of the reflective surface | 15%                     |



Intrinsic thermal resistance:

**R = 1.91 m<sup>2</sup>. K/W**



Thermal resistance between two non-ventilated air spaces:

**R = 2.60 m<sup>2</sup>. K/W**

### PRODUCT ADVANTAGES



#### INTEGRATED HIGHLY WATER VAPOUR PERMEABLE UNDER-ROOF SCREEN

Guarantees resistance to the passage of water by allowing water vapour to pass through.



#### MICRO PERFORATED FILMS

Guarantee the moisture migration required for installation on thick insulation or on an even lay (batten).



#### SIDE OVERLAY

This guarantees an air cushion effect and faster installation.

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 263798        |
| Roll per package          | 1             |
| Packages per pallet       | 15            |
| m <sup>2</sup> per pallet | 225           |
| EAN code                  | 3700101823290 |

### RELATED PRODUCTS

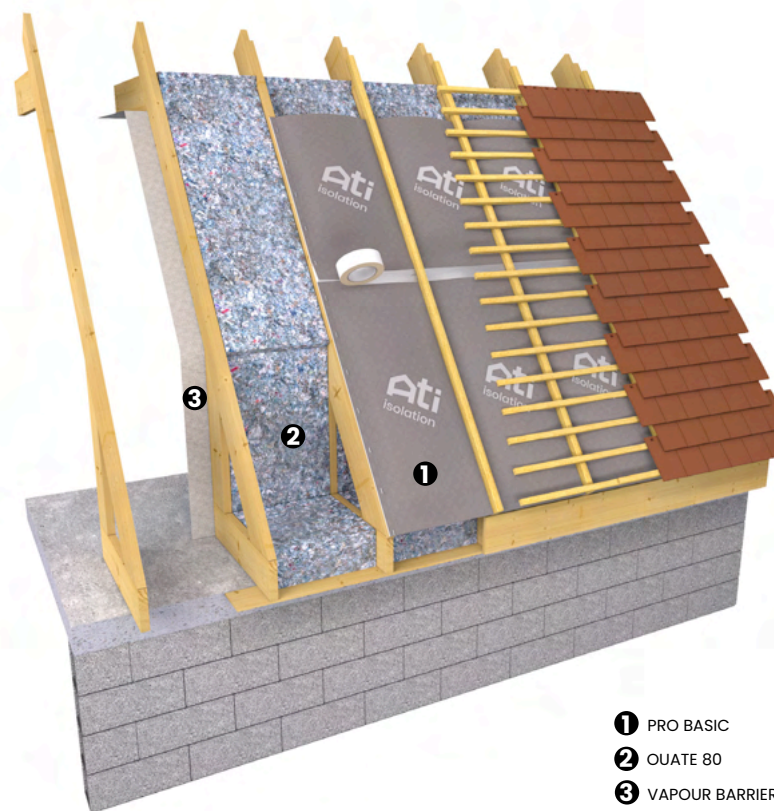


ATI FIX PRO transparent 96mm x 25m



Cutter

### INSTALLATION DIAGRAM - ON THE ROOF



- 1 PRO BASIC
- 2 QUATE 80
- 3 VAPOUR BARRIER



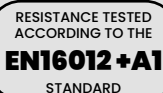
eligible for financial aid, subject to an installed thermal resistance above the required threshold.



EN 13859-1&2



\*Information on the level of emissions of volatile substances in an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).







# ATI PRO LIN

## BREATHABLE MULTI-REFLECTOR INSULATION WITH HVP (HIGH VAPEUR PERMEABILITY) UNDER-ROOF MEMBRANE

### PRODUCT FEATURES

|                                      |                       |
|--------------------------------------|-----------------------|
| Roll length x width                  | 10 m x 1.5 m          |
| Roll surface                         | 15 m <sup>2</sup>     |
| Roll thickness                       | 70 mm (±15 mm)        |
| Surface mass                         | 1.1 kg/m <sup>2</sup> |
| Roller weight                        | 16.5 kg               |
| Emissivity of the reflective surface | 15%                   |



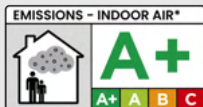
Intrinsic thermal resistance:

**R = 2.54 m<sup>2</sup>. K/W**

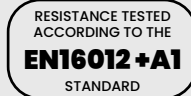


Thermal resistance between two non-ventilated air spaces:

**R = 3.20 m<sup>2</sup>. K/W**



\*Information on the level of emissions of volatile substances an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



EN 13859-1

### PRODUCT ADVANTAGES



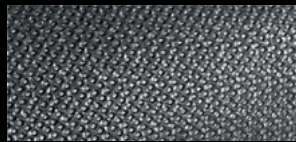
#### DOUBLE SIDE SEAM + OVERLAY

Limits excess thickness where strips overlap. Provides an air cushion effect and offers faster installation.



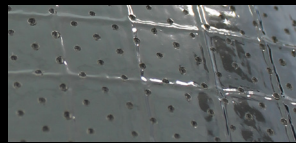
#### LINEN-BASED ELEMENTS

These help to regulate humidity and promote well-being and a feeling of general comfort in your home.



#### INTEGRATED HIGHLY WATER VAPOUR PERMEABLE RAINPROOF ROOF SCREEN

Guarantees resistance to the passage of water by allowing water vapour to pass through.



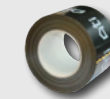
#### MICRO PERFORATED FILMS

Guarantee the moisture migration required for installation on thick insulation or on an even lay (batten).

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 263800        |
| Roll per package          | 1             |
| Packages per pallet       | 15            |
| m <sup>2</sup> per pallet | 225           |
| EAN code                  | 3700101823269 |

### RELATED PRODUCTS

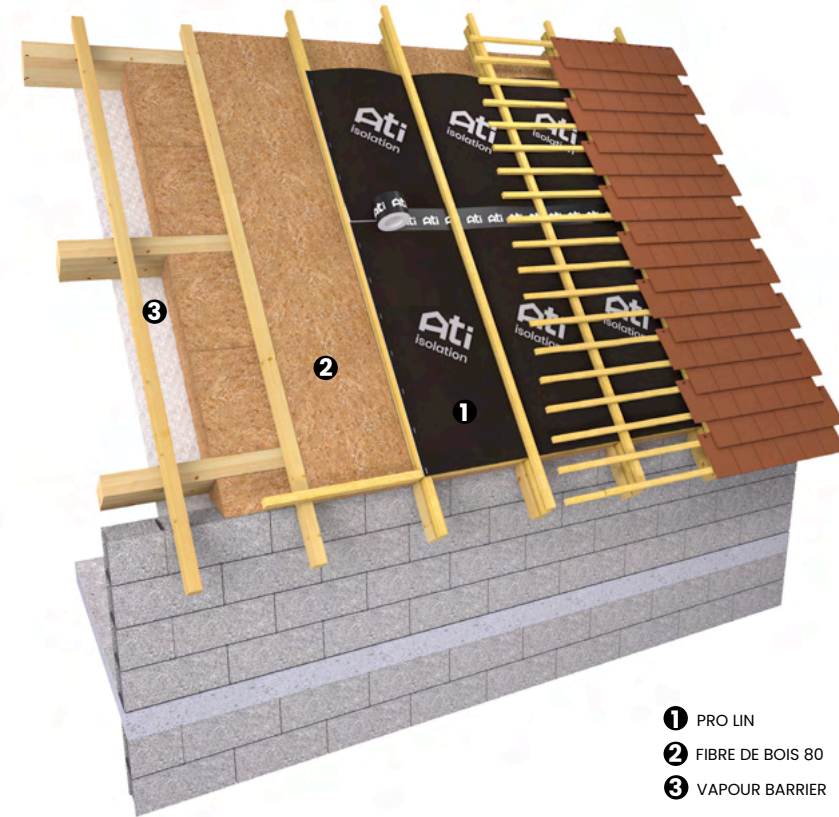


ATI FIX PRO noir  
96 mm x 25 m



Cutter

### INSTALLATION DIAGRAM - ON THE ROOF



eligible for financial aid, subject to an installed thermal resistance above the required threshold.





# ATI TECH PRO

## BREATHABLE MULTI-REFLECTOR INSULATION WITH METALLISED UNDER-ROOF MEMBRANE

### PRODUCT FEATURES

|                     |                        |
|---------------------|------------------------|
| Roll length x width | 10.7 m x 1.5 m         |
| Roll surface        | 16 m <sup>2</sup>      |
| Roll thickness      | 60 mm (±20 mm)         |
| Surface mass        | 1.25 kg/m <sup>2</sup> |
| Roller weight       | 20.5 kg                |



Intrinsic thermal resistance:

**R = 2.50 m<sup>2</sup>. K/W**



Thermal resistance between two non-ventilated air spaces:

**R = 3.10 m<sup>2</sup>. K/W**

EMISSIONS - INDOOR AIR\*



\*Information on the level of emissions of volatile substances in an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).

RESISTANCE TESTED ACCORDING TO THE  
**EN16012+A1**  
STANDARD



### PRODUCT ADVANTAGES



#### SIDE OVERLAYS

Provides an air cushion effect and faster installation.



#### A METALLIC ROOF SCREEN WHICH IS HIGHLY PERMEABLE TO WATER VAPOUR

Improves thermal reflection, optimises summer comfort. Guarantees resistance to the passage of water by allowing water vapour to pass through.



#### LINEN-BASED ELEMENTS

These help to regulate humidity and promote well-being and general comfort in your home.

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 153900        |
| Roll per package          | 1             |
| Packages per pallet       | 12            |
| m <sup>2</sup> per pallet | 192           |
| EAN code                  | 3700101822798 |

### RELATED PRODUCTS

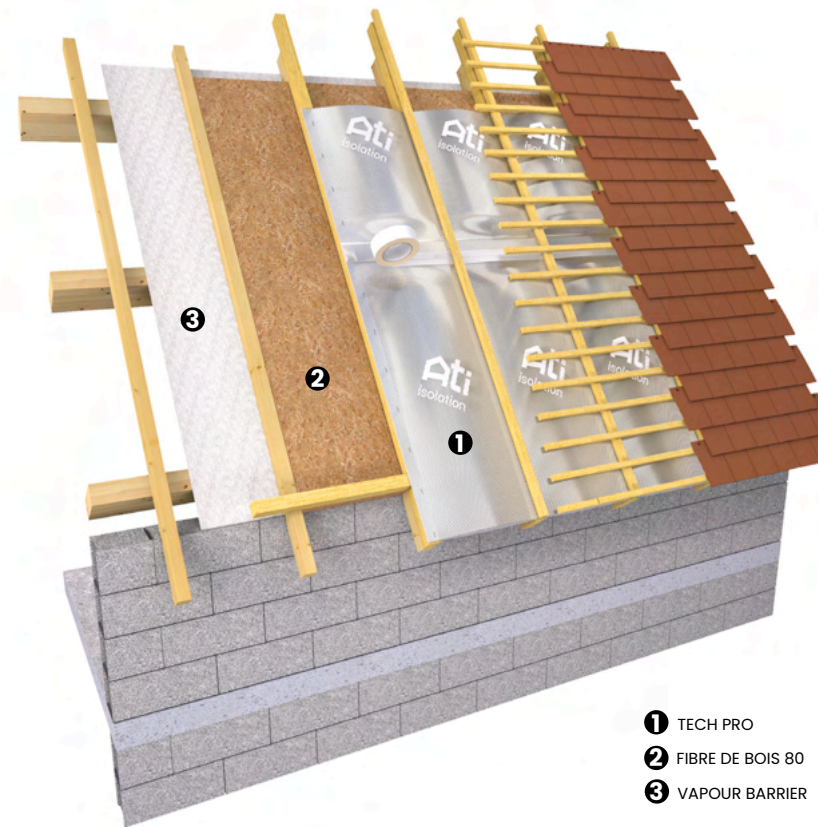


ATI FIX PRO transparent  
96mm x 25m



Cutter

### INSTALLATION DIAGRAM - ON THE ROOF



- 1 TECH PRO
- 2 FIBRE DE BOIS 80
- 3 VAPOUR BARRIER



eligible for financial aid, subject to an installed thermal resistance above the required threshold.



# ATI PRO EXCELLENCE

## BREATHABLE MULTI-REFLECTOR INSULATION WITH METALLISED UNDER-ROOF MEMBRANE

### PRODUCT FEATURES

|                                      |                        |
|--------------------------------------|------------------------|
| Roll length x width                  | 10 m x 1.5 m           |
| Roll surface                         | 15 m <sup>2</sup>      |
| Roll thickness                       | 90 mm (±10 mm)         |
| Surface mass                         | 1.17 kg/m <sup>2</sup> |
| Roller weight                        | 17.5 kg                |
| Emissivity of the reflective surface | 15%                    |



Intrinsic thermal resistance:

**R = 3.52. m<sup>2</sup> K/W**



Thermal resistance between two non-ventilated air spaces:

**R = 4.27 m<sup>2</sup> K/W**



### PRODUCT ADVANTAGES



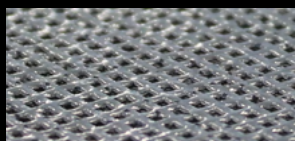
#### DOUBLE SIDE SEAMS + OVERLAY

This reduces excess thickness where strips overlap. It also provides an air cushion effect for a faster installation.



#### MICRO PERFORATED FILMS

Guarantee the moisture migration required for installation on thick insulation or on an even lay (batten).



#### HIGHLY WATER VAPOUR PERMEABLE METALLIC RAINPROOF ROOF SCREEN

Improves thermal reflection, optimises summer comfort. It also guarantees resistance to the passage of water by allowing water vapour to pass through.

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 263799        |
| Roll per package          | 1             |
| Packages per pallet       | 15            |
| m <sup>2</sup> per pallet | 225           |
| EAN code                  | 3700101823252 |

### RELATED PRODUCTS

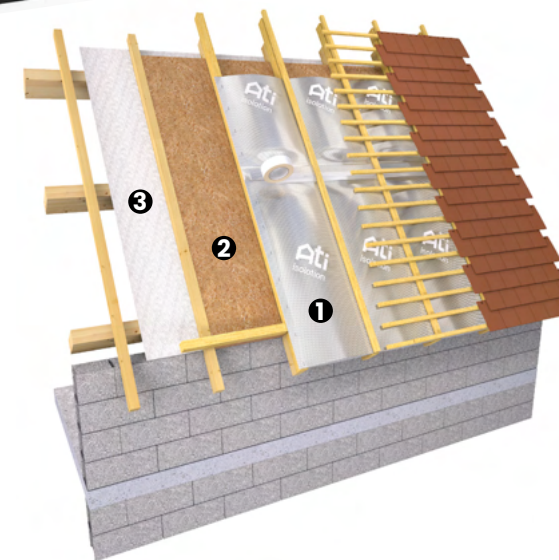


ATI FIX PRO transparent  
96mm x 25m



Cutter

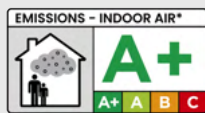
### INSTALLATION DIAGRAMS - EXTERNAL WALLS AND ROOFS



- 1 PRO EXCELLENCE
- 2 FIBRE DE BOIS 80
- 3 VAPOUR BARRIER



EN 13859-1&2



\*Information on the level of emissions of volatile substances in an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



eligible for financial aid, subject to an installed thermal resistance above the required threshold.



# ATI PRO PREMIUM

## WATERPROOF MULTI-REFLECTOR INSULATION

### PRODUCT FEATURES

|                                      |                        |
|--------------------------------------|------------------------|
| Roll length x width                  | 10 m x 1.5 m           |
| Roll surface                         | 15 m <sup>2</sup>      |
| Roll thickness                       | 90 mm (±10 mm)         |
| Surface mass                         | 1.10 kg/m <sup>2</sup> |
| Roller weight                        | 16.5 kg                |
| Emissivity of the reflective surface | 10%                    |



Intrinsic thermal resistance:

$$R = 3.52 \text{ m}^2 \cdot \text{K/W}$$



Thermal resistance between two non-ventilated air spaces:

$$R = 4.60 \text{ m}^2 \cdot \text{K/W}$$



### PRODUCT ADVANTAGES



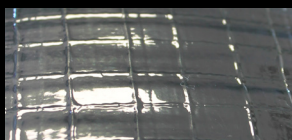
#### DOUBLE SIDE SEAMS + OVERLAY

Limits excess thickness where strips overlap. Provides an air cushion effect, faster installation.



#### REINFORCED FILM WITH A GRID FORMAT

Improves mechanical strength.



#### HIGH-REFLECTION EXTERNAL FILMS

Strengthens the thermal resistance of the process.

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 263801        |
| Roll per package          | 1             |
| Packages per pallet       | 15            |
| m <sup>2</sup> per pallet | 225           |
| EAN code                  | 3700101823276 |

### RELATED PRODUCTS

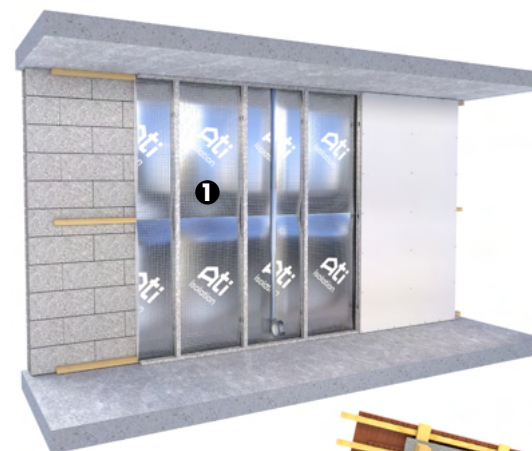


Adhésif PP argent  
100mm x 50m



Cutter

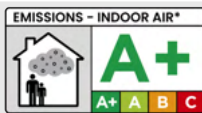
### INSTALLATION DIAGRAMS - INTERIOR WALLS AND ATTICS



- 1 PRO PREMIUM
- 2 FIBRE DE BOIS 80
- 3 ROOF UNDERLAY



EN 13984



\*Information on the level of emissions of volatile substances an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).

RESISTANCE TESTED ACCORDING TO THE  
**EN16012 +A1**  
STANDARD



eligible for financial aid, subject to an installed thermal resistance above the required threshold.



# ATI COMBI PRO LIN

## 2 IN 1 INSULATION: WATERPROOF PRO PREMIUM + BREATHABLE LINEN PRO

### PRODUCT FEATURES

|                              |                          |
|------------------------------|--------------------------|
| Roll length x width          | 10 m x 1,5 m *           |
| Roll surface                 | 15 m <sup>2</sup> *      |
| Roll thickness (PRO LIN)     | 70 mm (±15 mm)           |
| Roll thickness (PRO PREMIUM) | 90 mm (±10 mm)           |
| Surface mass                 | 1.10 kg/m <sup>2</sup> * |
| Roller weight                | 33 kg                    |

\* Identical information for PRO LIN and PRO PREMIUM



### PRODUCT ADVANTAGES



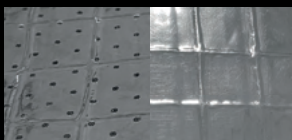
#### DOUBLE SIDE SEAMS + OVERLAY

Limits excess thickness where strips overlap. Provides an air cushion effect, faster installation.



#### LINEN-BASED ELEMENTS

Help to regulate humidity and promote well-being and general comfort in your home.

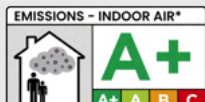


#### PERFORATED FILMS + WATERPROOF FILMS

PRO PREMIUM waterproof films provide the required vapour barrier from the inside, while PRO LIN microperforated films allow water vapour to migrate to the outside.



EN 13859-1&2  
EN 13984



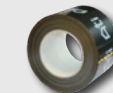
\*Information on the level of emissions of volatile substances an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012 +A1**  
STANDARD

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 264586        |
| Roll per package          | 2             |
| Packages per pallet       | 10            |
| m <sup>2</sup> per pallet | 150           |
| EAN code                  | 3700101823320 |

### RELATED PRODUCTS



ATI FIX PRO noir  
96 mm x 25 m

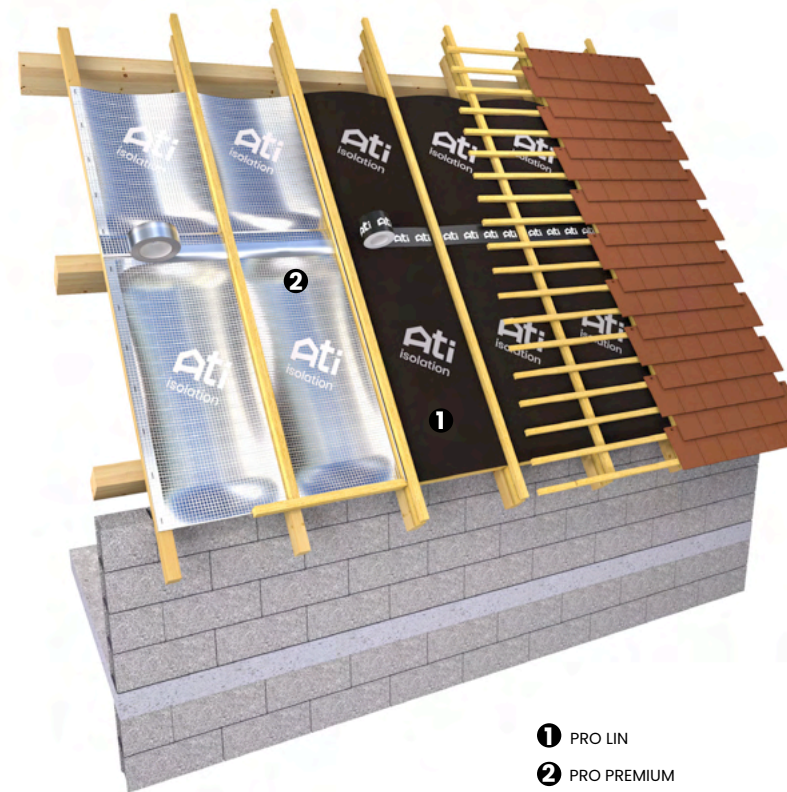


Cutter



Adhésif PP argent  
100mm x 50m

### INSTALLATION DIAGRAM - ON THE ROOF



1 PRO LIN

2 PRO PREMIUM

**R = 6.71. m<sup>2</sup>. K/W**

Thermal resistance in accordance with the standardized calculation report n°185 SF/23 for a 45° angle including: a ventilated air space, ATI PRO LIN, a non-ventilated air space, ATI PRO PREMIUM.



eligible for financial aid, subject to an installed thermal resistance above the required threshold.



## COMBINED PRODUCTS

*These products work together to maximize energy efficiency and also work to create an environmental awareness.*



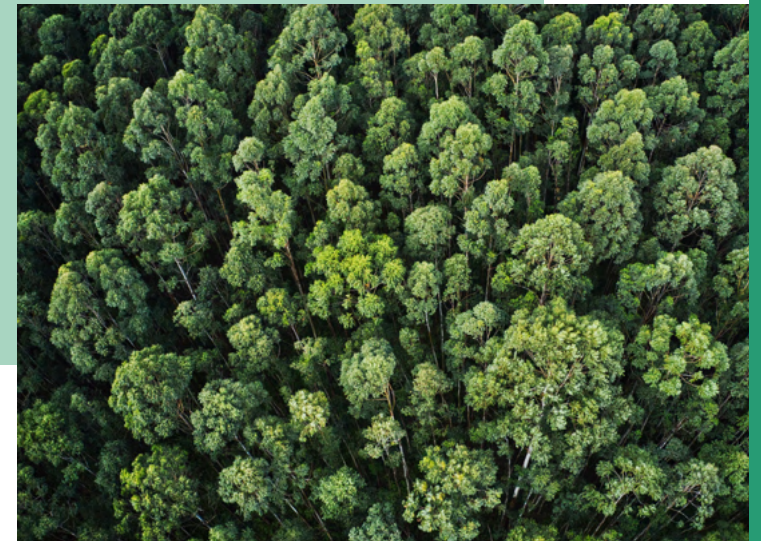
With this range of insulation products, you will find solutions that combine optimum thermal insulation together with reduced energy consumption, and by doing so, you will help to actively protect the environment.

Can you imagine insulation that provides a highly reflective thermal barrier which guarantees an optimum 4-season thermal comfort and at the same time greatly reducing your utility bills? Add to this our range of bio-sourced or eco-sourced panels made from natural or recycled raw materials, and you will finish up by having a unique and innovative insulating combination that effectively combats heat loss by conduction, convection and radiation.



Our multi-reflective insulations guard against temperature fluctuations and also optimising living space at the same time. As for our bio-sourced products, they fulfil the promise of an eco-responsible approach to your home. Not only do they provide optimum thermal insulation, but they also help to reduce your environmental impact. This is an opportunity to combine performance with respect for the planet.

*Why not choose our cutting-edge insulation solution which combines energy efficiency and environmental responsibility for an optimal living environment?*



## WOOD FIBRE

Made from the defibration of softwood tree off-cuts, the fibres are then bonded and covered in the form of panels which guarantee a high-quality bio-sourced insulation and optimum 4-season thermal comfort, both in winter and summer.

Wood fibre has low thermal conductivity in winter, reducing heat loss. In summer, its high thermal inertia absorbs temperature variations, lengthening the time it takes for heat to pass through the wall (thermal phase shifting).



### ADVANTAGES

- Excellent thermal-acoustic insulation.
- High thermal inertia for optimum summer comfort.
- A sustainable bio-sourced insulation originating from managed forests.

What's more, wood is highly recommended by professionals due to its reduced carbon footprint, with end reports showing that it is 75% more environmentally friendly than conventional materials\*

\* MSI ETUDE : The thermal insulation products marketplace in the French construction sector

## CELLULOSE WADDING

Cellulose wadding is made from recycled cellulose fibres. The panel itself is made from recycled paper and textiles. By using this product, you will be helping to reduce waste and preserve natural resources.



### ADVANTAGES

- Easy to install, lightweight panels.
- A good compromise for flexibility, lightness and mechanical strength.
- Optimum thermal phase shifting for a 4-season comfort.
- Soft material and a dust-free cutting experience.
- Sustainable eco-sourced insulation made from recycled materials.



# MIX FIBRE DE BOIS 80MM OUTDOOR

PRO EXCELLENCE BREATHABLE  
MULTI-REFLECTOR INSULATION  
+ 80MM WOOD FIBRE  
INSULATION PANEL



## PRODUCT ADVANTAGES



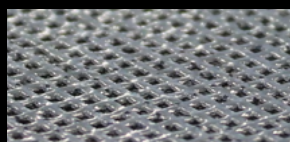
### WOOD FIBRE: THERMAL COMFORT ALL YEAR ROUND

Wood fibre provides high-performance insulation, reducing heat loss in winter and cushioning summer temperature variations for optimum comfort all year round.



### WOOD FIBRE-BASED PANEL

Provides a significant thermal phase shift. Enhances acoustic insulation.



### METALLIC HIGHLY WATER VAPOUR PERMEABLE RAINFOOF ROOF SCREEN

Improves thermal reflection, optimises summer comfort. Guarantees resistance to the passage of water, leaving a watertight seal.

## PRODUCT FEATURES

### PAVAFLEX CONFORT - 80mm

|                      |                       |
|----------------------|-----------------------|
| Panel length x width | 1,22 m x 0,575 m      |
| Panel surface        | 0,7015 m <sup>2</sup> |
| Panel thickness      | 80 mm                 |
| Surface mass         | 4 kg/m <sup>2</sup>   |
| Panel weight         | 2,8 kg                |

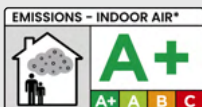
### PRO EXCELLENCE

|                     |                        |
|---------------------|------------------------|
| Roll length x width | 10 m x 1,5 m           |
| Roll surface        | 15 m <sup>2</sup>      |
| Roll thickness      | 90 mm (±10 mm)         |
| Surface mass        | 1.17 kg/m <sup>2</sup> |
| Roller weight       | 17.5 kg                |



EN 13859-1&2  
EN 13171  
(for PRO EXCELLENCE)

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012 + A1**  
STANDARD  
(for PRO EXCELLENCE)



\*Information on the level of emissions of volatile substances an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



CERTIFICAT ACERMI  
N°17/006/1259  
www.acermi.com  
(for wood fibre)

## PACKAGING

|           |   |
|-----------|---|
| Reference | 264691  |
| Packing   | 1 pallet of 60 fibreboard panels 80mm (42.09 m <sup>2</sup> ) + 1 pallet of 3 rolls PRO EXCELLENCE (45 m <sup>2</sup> ) |
| EAN code  | 3700101823306   |

## RELATED PRODUCTS

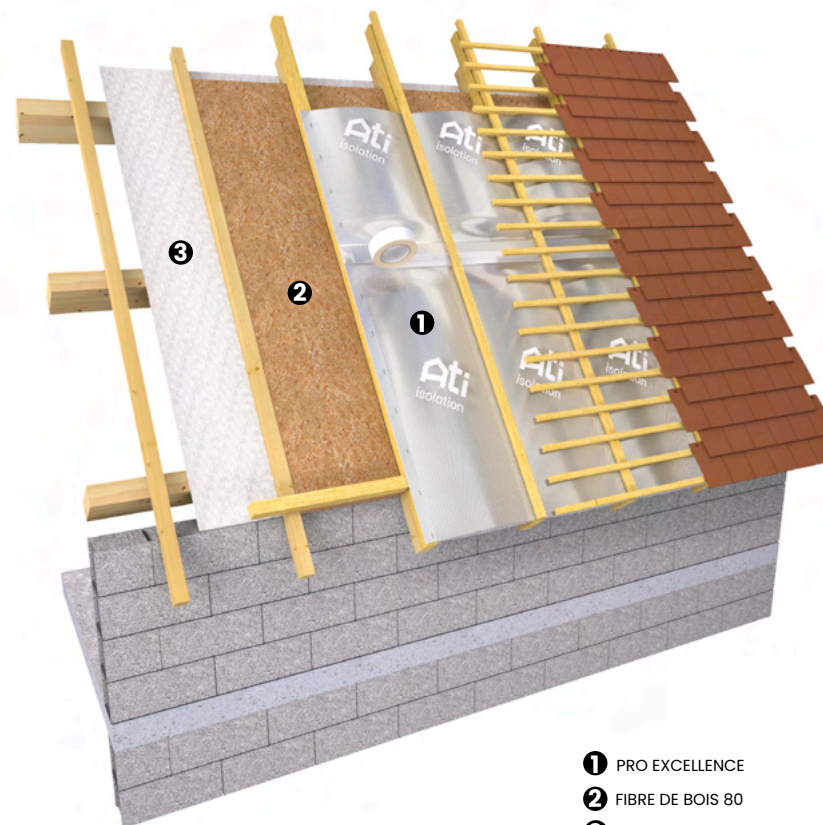


ATI FIX PRO transparent  
96mm x 25m



Cutter

## INSTALLATION DIAGRAM - ON THE ROOF



- 1 PRO EXCELLENCE
- 2 FIBRE DE BOIS 80
- 3 VAPOUR BARRIER

**R = 6.24. m<sup>2</sup>. K/W**

Thermal resistance in accordance with the standardized calculation report 172 SF/23 for a 45° angle including a ventilated air space, PRO EXCELLENCE, and a non-ventilated air space, PAVAFLEX 80.





# MIX FIBRE DE BOIS 80MM INDOOR

80MM WOOD FIBRE INSULATION PANEL + PRO PREMIUM WATERPROOF MULTI-REFLECTOR INSULATION

## PRODUCT FEATURES

### PAVAFLEX CONFORT - 80mm

|                      |                       |
|----------------------|-----------------------|
| Panel length x width | 1,22 m x 0,575 m      |
| Panel surface        | 0,7015 m <sup>2</sup> |
| Panel thickness      | 80 mm                 |
| Surface mass         | 4 kg/m <sup>2</sup>   |
| Panel weight         | 2,8 kg                |

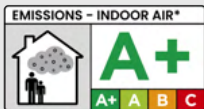
### PRO PREMIUM

|                     |                        |
|---------------------|------------------------|
| Roll length x width | 10 m x 1,5 m           |
| Roll surface        | 15 m <sup>2</sup>      |
| Roll thickness      | 90 mm (±10 mm)         |
| Surface mass        | 1.10 kg/m <sup>2</sup> |
| Roller weight       | 16.5 kg                |



EN 13984  
EN 13171  
(for PRO PREMIUM)

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012+A1**  
STANDARD  
(for PRO PREMIUM)



\*Information on the level of emissions of volatile substances in an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



CERTIFICAT ACERMI  
N°17/006/1259  
www.acermi.com  
(for wood fibre)



## PRODUCT ADVANTAGES



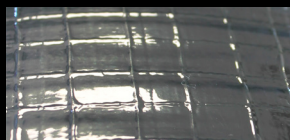
### WOOD FIBRE: THERMAL COMFORT ALL YEAR ROUND

Wood fibre provides high-performance insulation, reduces heat loss in winter and creates a cushion effect that regulates summer temperature variations for optimum comfort all year round.



### WOOD FIBRE-BASED PANEL

Provides a significant thermal phase shift. Enhances acoustic insulation.



### HIGH REFLECTION AND WATER VAPOUR BARRIER FILMS

These amplify the thermal resistance of the process and ensure water vapour impermeability.

## PACKAGING

|           |  |
|-----------|--|
| Reference | 266878   |
| Packaging | 1 pallet of 60 fibreboard panels 80mm (42,09 m <sup>2</sup> ) + 1 pallet of 3 rolls PRO PREMIUM (45 m <sup>2</sup> ) |
| EAN code  | 3700101823368  |

## RELATED PRODUCTS

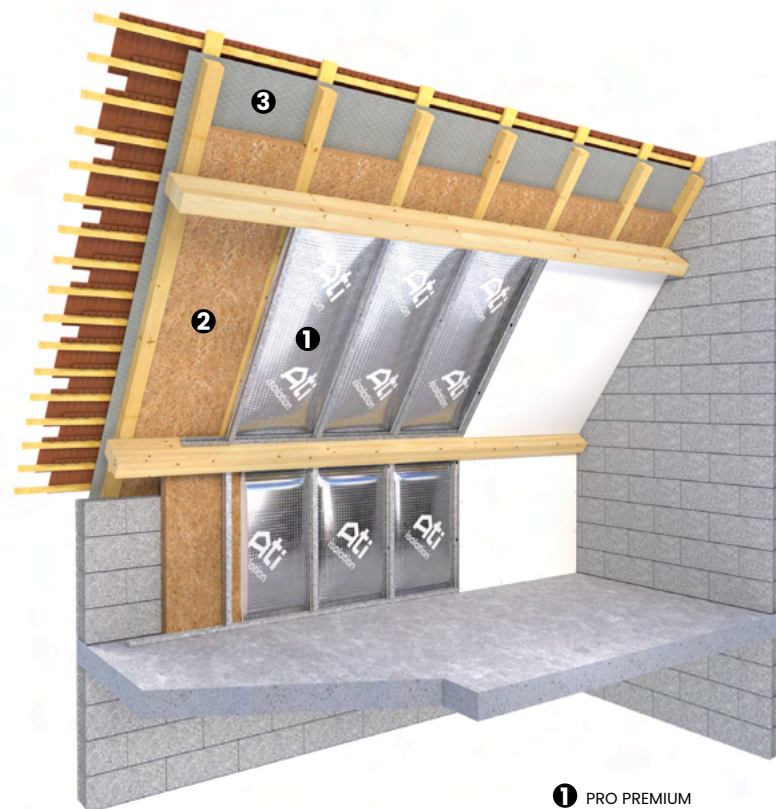


Adhésif PP argent  
100mm x 50m



Cutter

## INSTALLATION DIAGRAM - FOR THE ATTIC



- ① PRO PREMIUM
- ② FIBRE DE BOIS 80
- ③ ROOF UNDERLAY

**R = 6.21. m<sup>2</sup>. K/W**

Thermal resistance in accordance with the standardized calculation report 234 SF/23 for a 45° angle including a ventilated air space, PAVAFLEX 80, PRO PREMIUM and a non-ventilated air space.



# MIX OUATE DE CELLULOSE 80MM OUTDOOR

## PRO EXCELLENCE BREATHABLE MULTI-REFLECTOR INSULATION + 80 MM CELLULOSE WADDING INSULATION PANEL

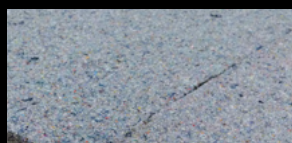


### PRODUCT ADVANTAGES



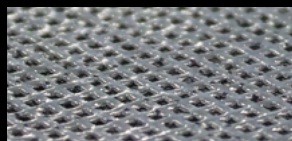
#### CELLULOSE WET: GREEN INSULATION

Made from recycled cellulose fibre, it gives a second life to newspapers and textiles. With its negative carbon footprint, it combats global warming.



#### CELLULOSE WET BASED PANEL

Provides a thermal phase shift. Enhances acoustic insulation.



#### REFLECTIVE INSULATION WITH METALLIC MEMBRANE

Guarantees watertightness and water vapour permeability. Provides summer comfort as well as thermal resistance.

CERTIFICAT ACERMI  
N°23/006/1605  
www.acermi.com

### PACKAGING

|           |  |
|-----------|--|
| Reference | 264692   |
| Packing   | 1 pallet of 56 cellulose wadding panels 80mm (42.09 m <sup>2</sup> ) + 1 pallet of 3 rolls PRO EXCELLENCE (45 m <sup>2</sup> ) |
| EAN code  | 3700101823245  |

### RELATED PRODUCTS

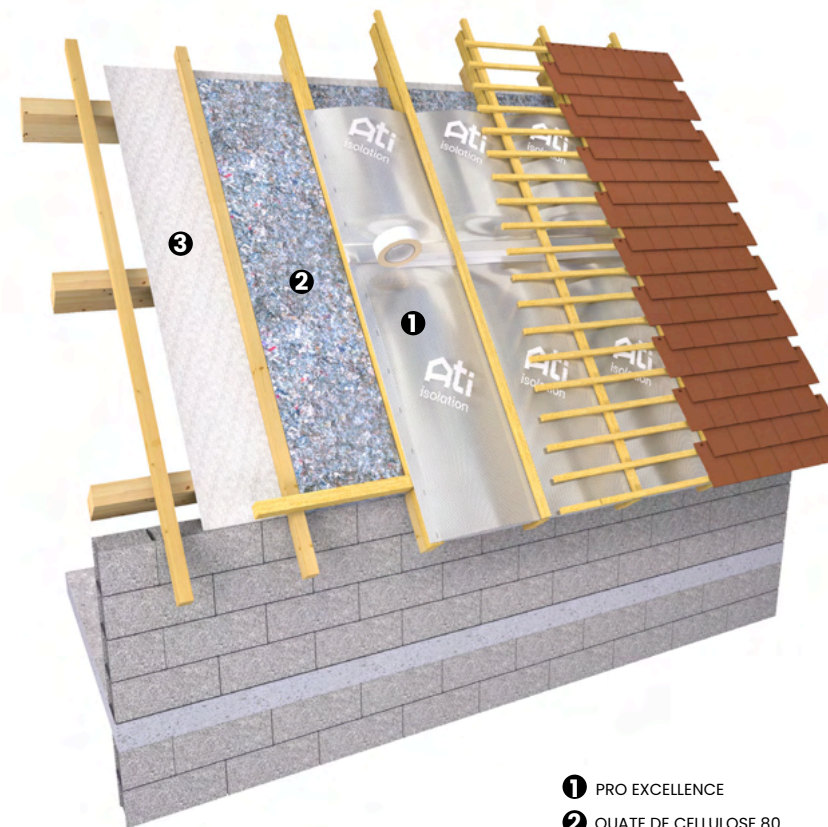


ATI FIX PRO transparent  
96mm x 25m



Cutter

### INSTALLATION DIAGRAM - ON THE ROOF



- 1 PRO EXCELLENCE
- 2 OUATE DE CELLULOSE 80
- 3 VAPOUR BARRIER

**R = 6.19. m<sup>2</sup>. K/W**

Thermal resistance in accordance with the standardized calculation report 173 SF/23 for a 45° angle including a ventilated air space, PRO EXCELLENCE, a non-ventilated air space, PAVACELL 80.

### PRODUCT FEATURES

#### PAVACELL P - 80mm

|                      |                       |
|----------------------|-----------------------|
| Panel length x width | 1,35 m x 0,6 m        |
| Panel surface        | 0,81 m <sup>2</sup>   |
| Panel thickness      | 80 mm                 |
| Surface mass         | 2,8 kg/m <sup>2</sup> |
| Panel weight         | 2,27 kg               |

#### PRO EXCELLENCE

|                     |                        |
|---------------------|------------------------|
| Roll length x width | 10 m x 1,5 m           |
| Roll surface        | 15 m <sup>2</sup>      |
| Roll thickness      | 90 mm (±10 mm)         |
| Surface mass        | 1.17 Kg/m <sup>2</sup> |
| Roller weight       | 17.5 Kg                |

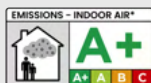


FOR PRO EXCELLENCE:



EN 13859-1&2  
EN 13171

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012 +A1**  
STANDARD



Information on the level of emissions of volatile substances on indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).

FOR CELLULOSE WADDING:



CERTIFICAT ACERMI  
N°23/006/1605  
www.acermi.com



# MIX OUATE DE CELLULOSE 80MM INDOOR

80 MM CELLULOSE WADDING  
INSULATION PANEL + PRO  
PREMIUM WATERPROOF MULTI-  
REFLECTOR INSULATION

## PRODUCT FEATURES

### PAVACELL P - 80mm

|                      |                       |
|----------------------|-----------------------|
| Panel length x width | 1,35 m x 0,6 m        |
| Panel surface        | 0,81 m <sup>2</sup>   |
| Panel thickness      | 80 mm                 |
| Surface mass         | 2,8 kg/m <sup>2</sup> |
| Panel weight         | 2,27 kg               |

### PRO PREMIUM

|                     |                        |
|---------------------|------------------------|
| Roll length x width | 10 m x 1,5 m           |
| Roll surface        | 15 m <sup>2</sup>      |
| Roll thickness      | 70 mm (±15 mm)         |
| Surface mass        | 1.10 Kg/m <sup>2</sup> |
| Roller weight       | 16.5 Kg                |

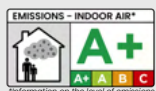


FOR PRO PREMIUM:



EN 13859-1&2  
EN 13171

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012+A1**  
STANDARD



Information on the level of emissions of volatile substances on indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



CERTIFICAT ACERMI  
N°23/006/1605  
www.acermi.com

FOR CELLULOSE WADDING:

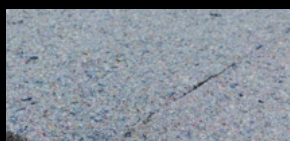


## PRODUCT ADVANTAGES



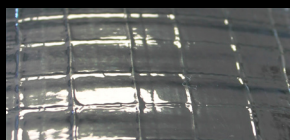
### CELLULOSE WET: GREEN INSULATION

Made from recycled cellulose fibre, it gives a second life to newspapers and textiles. With its negative carbon footprint, it contributes to eradicating global warming.



### CELLULOSE WET BASED PANEL

Provides a thermal phase shift. Enhances acoustic insulation.



### HIGH REFLECTION AND WATERPROOF EXTERNAL FILMS

These amplify the thermal resistance of the process and ensure impermeability to water vapour.

## PACKAGING

|           |   |
|-----------|---|
| Reference | 264693  |
| Packing   | 1 pallet of 56 cellulose wadding panels 80mm (45.36 m <sup>2</sup> ) + 1 palette de 3 rouleaux PRO PREMIUM (45 m <sup>2</sup> ) |
| EAN code  | 3700101823313   |

## RELATED PRODUCTS

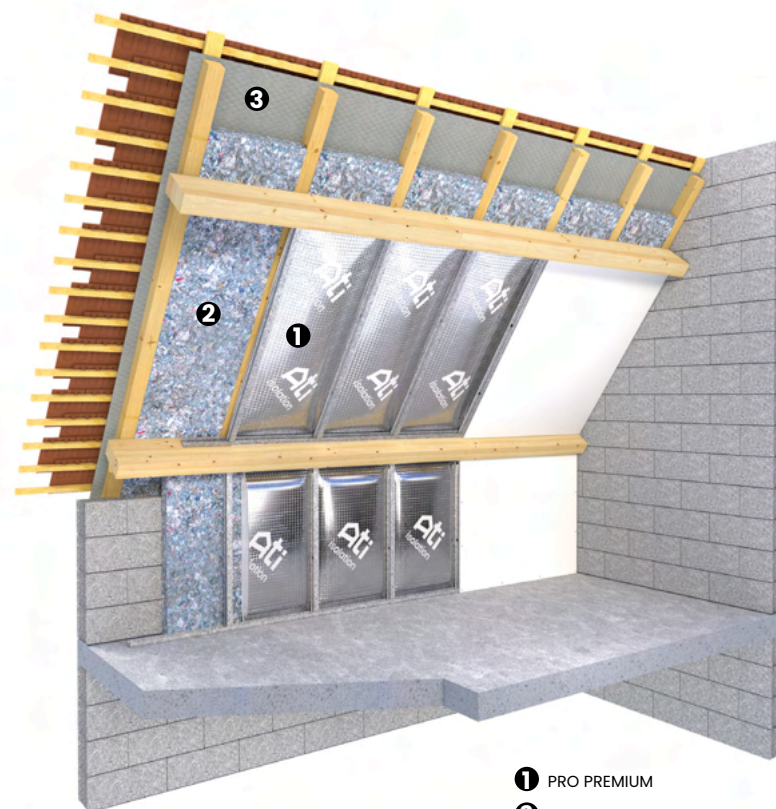


Adhésif PP argent  
100mm x 50m



Cutter

## INSTALLATION DIAGRAM - FOR THE ATTIC



- ① PRO PREMIUM
- ② OUATE DE CELLULOSE 80
- ③ ROOF UNDERLAY

**R = 6.16. m<sup>2</sup>. K/W**

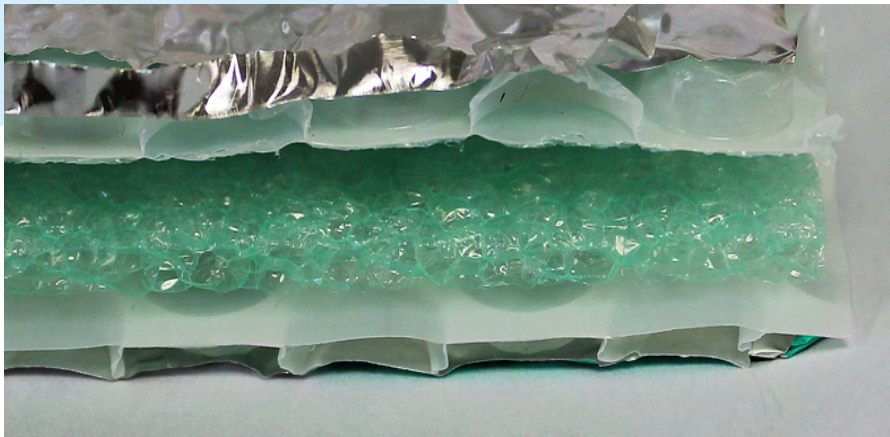
Thermal resistance in accordance with the standardized calculation report 233 SF/23 for a 45° angle including a ventilated air space, PAVACELL, PRO PREMIUM and a non-ventilated air space.



# THERMO-REFLECTOR WITH BUBBLES

Discover our range of thermo-reflective bubble insulation solutions. This range works to guarantee a constant indoor comfort. The Air bubbles in the product act as a natural barrier against heat transfer and work to limit heat loss in winter and prevent overheating in summer due to their low conductivity levels.

The product is lightweight and flexible, making installation easy and ensuring all-year-round thermal protection for commercial or industrial areas.



This air-bubble insulation system is a versatile, high-performance solution, offering an optimum balance between energy efficiency and ease of use.



# AIRFLEX

## THIN THERMO-REFLECTIVE BUBBLE INSULATION

### PRODUCT FEATURES

#### AIRFLEX 15 et 30

|                                       |                          |
|---------------------------------------|--------------------------|
| Length x width of one roll AIRFLEX 15 | 12.5 m x 1.2 m           |
| Length x width of one roll AIRFLEX 30 | 25 m x 1.2 m             |
| Roll surface AIRFLEX 15               | 15 m <sup>2</sup>        |
| Roll surface AIRFLEX 30               | 30 m <sup>2</sup>        |
| Roll thickness                        | 10.1 mm (±10 mm)*        |
| Surface mass                          | 0.56 kg/m <sup>2</sup> * |
| Weight of an AIRFLEX 15 roll          | 8.1 kg                   |
| Weight of an AIRFLEX 30 roll          | 16.2 kg                  |
| Emissivity of the Reflective surface  | 5%                       |
| Fire Performance                      | B-S1, d0*                |

\* Identical information for AIRFLEX 15 and AIRFLEX 30



The Thermal resistance between two non-ventilated air spaces:

$$R = 1.64 \text{ m}^2 \cdot \text{K/W}$$



### PRODUCT ADVANTAGES



#### DOUBLE COVERING WITH INTEGRATED SELF-ADHESIVE

Allows quick and easy application.



#### IGNIFUGATED GREEN FOAM

Contributes to the product's fire performance and increases the product's rigidity.



#### 30 µM ALU FILM

Provides high reflection and optimises the solar factor.

### PACKAGING

#### AIRFLEX 15

|                           |               |
|---------------------------|---------------|
| Reference                 | 153892        |
| Rolls per package         | 1             |
| Packages per pallet       | 8*            |
| m <sup>2</sup> per pallet | 120           |
| EAN code                  | 3700101811112 |

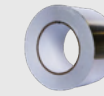
\* Packaging may vary, 16 packages per pallet (in 1.2 m x 1.2 m x 2.6 m format).

#### AIRFLEX 30

|                           |               |
|---------------------------|---------------|
| Reference                 | 153885        |
| Rolls per package         | 1             |
| Packages per pallet       | 4*            |
| m <sup>2</sup> per pallet | 120           |
| EAN code                  | 3700101811129 |

\* Packaging may vary, 8 packages per pallet (in 1.2 m x 1.2 m x 2.6 m format).

### RELATED PRODUCTS

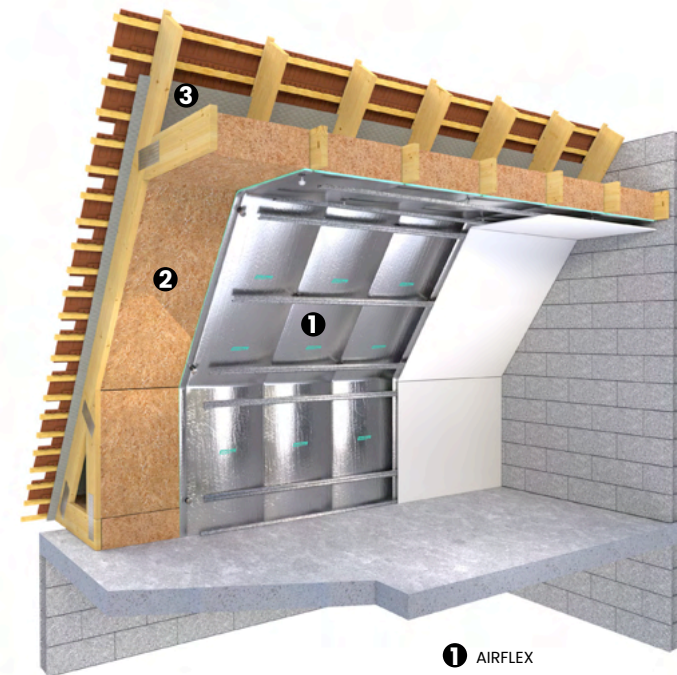


Adhésif alu  
75 mm x 50m



Cutter

### INSTALLATION DIAGRAMS - INTERIOR WALLS AND ATTICS



- 1 AIRFLEX
- 2 OUATE DE CELLULOSE 80
- 3 ROOF UNDERLAY

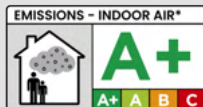


eligible for financial aid, subject to an installed thermal resistance above the required threshold.



ETA-18/0330

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012 +A1**  
STANDARD



\*Information on the level of emissions of volatile substances an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



# THERMO-BULLES

## ULTRA-THIN INSULATION, BUBBLE THERMO-REFLECTOR

### PRODUCT FEATURES

|                                      |                        |
|--------------------------------------|------------------------|
| Roll length x width                  | 30 m x 1.2 m           |
| Roll surface                         | 36 m <sup>2</sup>      |
| Roll thickness                       | 7 mm (±1 mm)           |
| Surface mass                         | 0.21 kg/m <sup>2</sup> |
| Roller weight                        | 7.7 kg                 |
| Emissivity of the reflective surface | 5%                     |
| Fire Performance                     | B-S1, d0               |

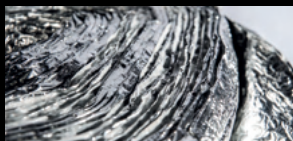


The Thermal resistance between two non-ventilated air spaces:

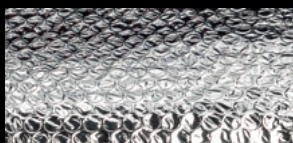
$$R = 1.61. \text{ m}^2 \text{ K/W}$$



### PRODUCT ADVANTAGES



**12 µm ALU FILM WITH PROTECTIVE VARNISH**  
Maintains high reflection that will prove the test of time. It also optimises the solar factor and blocks the passage of water vapour.



**THERMOSOUNDED ASSEMBLY OVER THE WHOLE WIDTH**  
Provides rigidity and easy installation.



**ALU FILM WITH IGNIFUGATED BUBBLES**  
Guarantees the product's fire resistance.

### PACKAGING

|                           |               |
|---------------------------|---------------|
| Reference                 | 267766        |
| Rolls per package         | 1             |
| Packages per pallet       | 8*            |
| m <sup>2</sup> per pallet | 240           |
| EAN code                  | 3700101823375 |

\* Packaging may vary, 6 packages per pallet (1 m x 1.2 m x 1.4 m).

### RELATED PRODUCTS

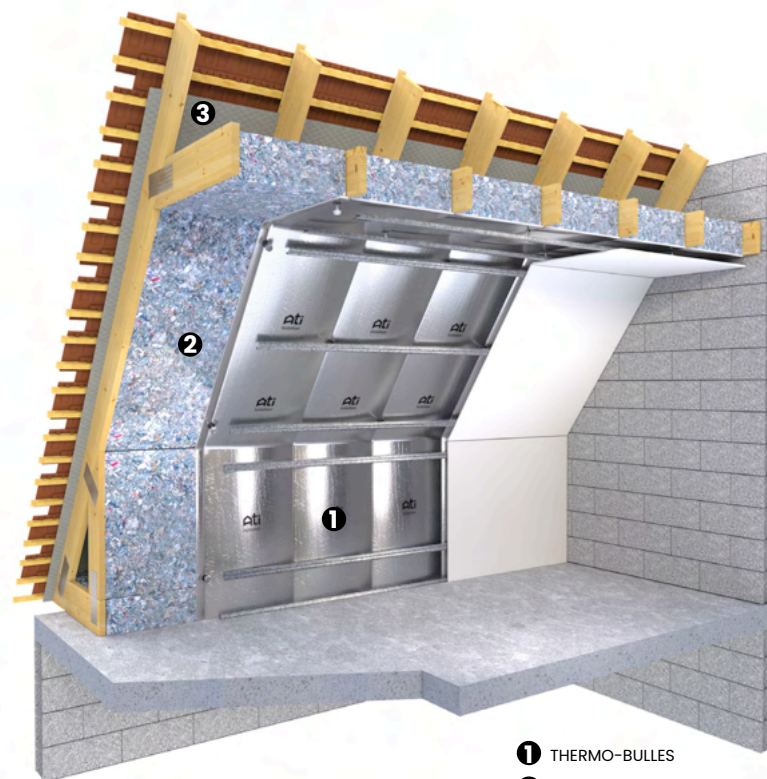


Adhésif alu  
75 mm x 50m



Cutter

### INSTALLATION DIAGRAM - MULTI-PURPOSE

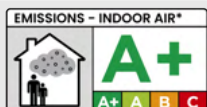


- 1 THERMO-BULLES
- 2 OUATE DE CELLULOSE 80
- 3 ROOF UNDERLAY



eligible for financial aid, subject to an installed thermal resistance above the required threshold.

RESISTANCE TESTED  
ACCORDING TO THE  
**EN16012 +A1**  
STANDARD



\*Information on the level of emissions of volatile substances in an indoor air environment, presenting a risk of toxicity by inhalation, on a class scale from A+ (very low emissions) to C (high emissions).



# “ ATI CUSTOMER SERVICE

To ensure that your order is on time, please check that orders contain:



**The correct product codes**

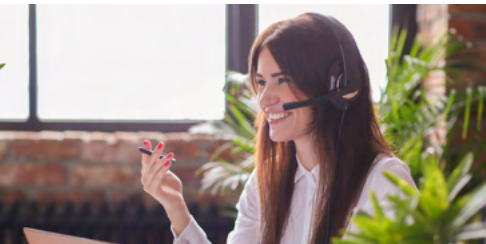
**Quantity (in pallets or m<sup>2</sup>)**

**Correct Delivery details**

- a delivery address
- delivery receiver name
- a telephone number
- opening and reception times
- access information
- means of unloading (*tail lift or pallet truck*)

## DELIVERY TIMES

Our Delivery time frame is between 24 to 48 hours (or 72 hours in some cases) depending on the department dealing with the order. For more information, please contact our customer service department



“ **PLEASE FEEL FREE TO CONTACT OUR ATI CUSTOMER SERVICE**

Monday to Friday, 9am to 5pm  
04.78.80.51.89 / [info@ati-isolation.com](mailto:info@ati-isolation.com)





# APPENDICES

## TEST REPORTS



# TEST REPORT PRO BASIC

INSTITUTE OF ARCHITECTURE AND  
CONSTRUCTION OF KAUNAS  
UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY



LIETUVOS  
NACIONALINIS  
AKREDITACIJOS  
BIURAS

BANDYMALIS ISO/IEC 17025 Nr. LA-0103

TEST REPORT No. **082 SF/23 U**

Date: **03 of May 2023**

page (pages)

1 (3)

Determination of declared thermal resistance of reflective insulation product according LST EN 16012:2012+A1:2015 and LST EN ISO 8990:1999

**Test method:** LST EN 16012:2012+A1:2015: Thermal insulation for buildings-Reflective insulation products-Determination of the declared thermal performance;  
LST EN ISO 8990:1999 Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box (ISO 8990:1994).

**Specimen description:** Type of product: reflective insulation product (Type 3)  
Names of product: ATI PRO BASIC P  
Thickness of product installed in the „Hot box” – 62 mm;  
Declared thickness of product – 53 mm +/- 10 mm\*  
\*Declaration numbers: 230310 ATI PRO BASIC P-1 episode; 230310 ATI PRO BASIC P-2 episode; 230310 ATI PRO BASIC P-3 episode; 230310 ATI PRO BASIC P-4 episode; 230421 ATI PRO BASIC P-5 episode; 230421 ATI PRO BASIC P-6 episode  
(name, description and identification details of a specimen)

**Customer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France  
(name and address)

**Manufacturer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France  
(name and address)

### Test results:

| Name of the indicator and unit   | Test method reference no.     | Test result |
|--|-------------------------------|-------------|
| Declared thermal resistance of the core of product<br>ATI PRO BASIC P $R_{core,90/90}$ , (m <sup>2</sup> ·K)/W                                       | LST EN ISO 16012:2012+A1:2015 | 1.91        |
| Declared thermal resistance of system with 2 air gaps<br>$R_{sys,90/90}$ , (m <sup>2</sup> ·K)/W   |                               | 2.60        |
| Declared thermal resistance values determined according to EN ISO 10456:2008<br>Position of specimen: vertical (direction of heat flow – horizontal) |                               |             |

**Tested at:** Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(name of the test laboratory)

**Specimen delivery dates:** 2023-03-23; 2023-04-24 **Date of testing:** 2023-04-08 ÷ 2023-04-28

**Production date:** 2023-02-02 ÷ 2023-04-19

**Sampling:** The test specimens sampled by customer. Description of the sample 2023-03-10

**Additional information:** Application 2023-03-10; 2023-04-21. This report is prepared according to tests reports: 082-1 SF/23 U; 082-2 SF/23 U; 082-3 SF/23 U; 082-4 SF/23 U; 082-5 SF/23 U; 082-6 SF/23 U.  
(any deviations, complementary tests, exceptions and any information related with particular test)

**Annexes:** Annex 1. Parameters of Guarded Hot Box measurement and  $R_{sys,90/90}$ ;  
Annex 2. Specimen air gaps thermal properties;  
Annex 3.  $R_{core,90/90}$  thermal resistance value according to LST EN 16012:2012+A1:2015.  
(indicate annex numbers and titles)

Head of Laboratory:

(approves the test results)

Tested by:

(technically responsible for testing)

K. Banionis

(n., surname)

A. Burlingis

(n., surname)

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# TEST REPORT PRO LIN

INSTITUTE OF ARCHITECTURE AND  
CONSTRUCTION OF KAUNAS  
UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY



LIETUVOS  
NACIONALINIS  
AKREDITACIJOS  
BIURAS

BANDYMALIS ISO/IEC 17025 Nr. LA-0103

TEST REPORT No. **138 SF/23 U**

Date: **03 of July 2023**

page (pages)

1 (3)

Determination of declared thermal resistance of reflective insulation product according LST EN 16012:2012+A1:2015 and LST EN ISO 8990:1999

**Test method:** LST EN 16012:2012+A1:2015: Thermal insulation for buildings-Reflective insulation products-Determination of the declared thermal performance;  
LST EN ISO 8990:1999 Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box (ISO 8990:1994).

**Specimen description:** Type of product: reflective insulation product (Type 3)  
Names of product: ATI PRO LIN-3  
Thickness of product installed in the „Hot box” – 85 mm;  
Declared thickness of product – 70 mm +/- 15 mm\*  
\*Declaration numbers: 230505 ATI PRO LIN-3-1 episode; 230519 ATI PRO LIN-3-1 episode; 230526 ATI PRO LIN-3-2 episode; 230502 ATI PRO LIN-3-3 episode; 230509 ATI PRO LIN-3-4 episode  
(name, description and identification details of a specimen)

**Customer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France  
(name and address)

**Manufacturer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France  
(name and address)

### Test results:

| Name of the indicator and unit   | Test method reference no.     | Test result |
|--|-------------------------------|-------------|
| Declared thermal resistance of the core of product<br>ATI PRO LIN-3 $R_{core,90/90}$ , (m <sup>2</sup> ·K)/W   | LST EN ISO 16012:2012+A1:2015 | 2.54        |
| Declared thermal resistance of system with 2 air spaces<br>$R_{sys,90/90}$ , (m <sup>2</sup> ·K)/W   |                               | 3.20        |
| Declared thermal resistance values determined according to EN ISO 10456:2008<br>Position of specimen: vertical (direction of heat flow – horizontal) |                               |             |

**Tested at:** Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(name of the test laboratory)

**Specimen delivery dates:** 2023-05-05; 2023-06-16 **Date of testing:** 2023-05-19 ÷ 2023-06-28

**Production date:** 2023-05-03 ÷ 2023-06-07

**Sampling:** The test specimens sampled by customer. Description of the sample: 2023-05-05; 2023-06-09

**Additional information:** Application 2023-06-09. This report is prepared according to tests reports: 091 SF/23 U; 138-1 SF/23 U; 138-2 SF/23 U; 138-3 SF/23 U; 138-4 SF/23 U.  
(any deviations, complementary tests, exceptions and any information related with particular test)

**Annexes:** Annex 1. Parameters of Guarded Hot Box measurement and  $R_{sys,90/90}$ ;  
Annex 2. Specimen air gaps thermal properties;  
Annex 3.  $R_{core,90/90}$  thermal resistance value according to LST EN 16012:2012+A1:2015.  
(indicate annex numbers and titles)

Technical manager:

(approves the test results)

Tested by:

(technically responsible for testing)

J. Ramanauskas

(n., surname)

A. Burlingis

(n., surname)

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# TEST REPORT TECH PRO

INSTITUTE OF ARCHITECTURE AND  
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UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY



LIETUVOS  
NACIONALINIS  
AKREDITACIJOS  
BIURAS

BANDYMAI  
ISO/IEC 17025 Nr. LA-01-031

TEST REPORT No. 244 SF/22 U

page (pages)

Date: 20 of October 2022

1 (8)

## Determination of declared thermal resistance of reflective insulation product according LST EN 16012:2012+A1:2015 and LST EN ISO 8990:1999

**Test method:** **LST EN 16012:2012+A1:2015:** Thermal insulation for buildings-Reflective insulation products-Determination of the declared thermal performance;  
**LST EN ISO 8990:1999:** Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box (ISO 8990:1994).

**Specimen description:** **Product:** reflective multilayer insulation product Type 3  
**Names of product:** **TECH PRO**  
Thickness of product installed in the „Hot box” – 80 mm  
Declared thickness of product – 60 mm +/- 20 mm\*  
At the center of the specimen installed the beam of polyurethane. Dimension: Width – 3 cm, length – 1.13 m, thickness – 48 mm.  
\*Declared by the manufacturer

**Customer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France

**Manufacturer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France

### Test results:

| Name of the indicator and unit  | Test method reference no.                             | Test result |
|---|---|-------------|
| Declared corrected $R$ -core <sub>90/90</sub> thermal resistance with 2 air gaps, (m <sup>2</sup> ·K)/W             | LST EN ISO 8990:1999<br>LST EN ISO 16012:2012+A1:2015 | 3.10        |
| Declared corrected $R$ -core <sub>90/90</sub> thermal resistance of product <b>TECH PRO</b> , (m <sup>2</sup> ·K)/W | LST EN ISO 16012:2012+A1:2015                         | 2.50        |

Declared thermal resistance values determined according to EN ISO 10456:2008\*\* (\*\*not accredited activity)  
Position of specimen: vertical (direction of heat flow – horizontal)

**Tested at:** Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology

**Specimen delivery date:** 2022-09-16 **Date of testing:** 2022-10-05/ 2022-10-12/2022-10-14/2022-10-16

**Sampling:** The test specimen sampled by customer.

**Additional information:** Application 2022-09-19/2022-10-06

Used tests reports 202 SF/22 U; 200-2 SF/22 U; 225 SF/22 U; 226 SF/22 U  
(any deviations, complementary tests, exceptions and any information related with particular test)

**Annexes:**  
**Annex 1.** Test results;  
**Annex 2.** Parameters of Guarded Hot Box measurement;  
**Annex 3.** Specimen products and air gaps thermal properties;  
**Annex 4.** Perimeter zone's linear thermal transmittance value of the specimen;  
**Annex 5.** Specimen design data;  
**Annex 6.** Scheme of climate chamber „Hot box”.

**Head of Laboratory:** K. Banionis (n., surname)

**Tested by:** A. Burlingis (n., surname)

S.P. (technically responsible for testing)

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# TEST REPORT PRO EXCELLENCE

INSTITUTE OF ARCHITECTURE AND  
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UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY

CALCULATION REPORT No. 070 SF/23

page (pages)

Date: 09 of May 2023

1 (3)

## Determination of installed thermal resistance into a roof and into a wall of ATI PRO Excellence Permeable according to EN ISO 6946:2017

**Test method:** Determination of installed thermal resistance into a roof and into a wall of ATI PRO Excellence Permeable according to EN ISO 6946:2017  
(number of normative document or test method, description of test procedure, test uncertainty)

**Product name:** ATI PRO Excellence Permeable  
(identification of the specimen)

**Customer:** SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France  
(name and address of enterprise)

**Manufacturer:** SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

### Calculation results:

| Roof slope angle, $\alpha$           | Calculation method reference no. | Calculation result, $R$ , (m <sup>2</sup> ·K)/W |
|--------------------------------------|----------------------------------|---|
| Flat roof ( $\alpha = 0^\circ$ )     | EN ISO 6946:2017                 | 4.04  |
| Pitched roof ( $\alpha = 30^\circ$ ) |                                  | 4.09  |
| Pitched roof ( $\alpha = 45^\circ$ ) |                                  | 4.12  |
| Wall ( $\alpha = 90^\circ$ )         |                                  | 4.27  |

*R value for others pitched sloop (different  $\alpha$  value) can be determined by linear interpolation between two calculated R values*

**Calculation made by:** Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(Name of the organization)

**Products used in calculation:** Ventilated air layer 20 mm (external surface resistance  $R_{se}$ ).  
Metallized membrane,  $\epsilon = 0.25^*$ .  
Multilayer reflective insulation product APRO (test report no. 065 SF/23 U).  
Metallized reinforced perforated film,  $\epsilon = 0.15^*$ .  
Unventilated air layer 20 mm;  
\* Declared by the manufacturer

**Additional information:** Application, 2023-04-06

**Annex:** Annex 1. Calculation results  
(the numbers of the annexes should be pointed out)

**Head of Laboratory:** K. Banionis (n., surname)

**Calculated by:** J. Ramanauskas (n., surname)

S.P.

(calculates the test results)

(signature)

(signature)

(signature)

(signature)

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# TEST REPORT PRO PREMIUM

INSTITUTE OF ARCHITECTURE AND  
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UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY



BANDUMAI  
ISO/IEC 17025 Nr. LA91841

TEST REPORT No. **106 SF/23 U**

page (pages)

Date: **30 of May 2023**

1 (3)

Determination of declared thermal resistance of reflective insulation product according LST  
EN 16012:2012+A1:2015 and LST EN ISO 8990:1999

(test title)

**Test method:** LST EN 16012:2012+A1:2015: Thermal insulation for buildings-Reflective insulation products-Determination of the declared thermal performance;  
LST EN ISO 8990:1999 Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box (ISO 8990:1994).

(number of normative document or test method, description of test procedure, test uncertainty)

**Specimen description:** Type of product: reflective insulation product (Type 3)

Names of product:  
**ATI PRO PREMIUM**

Thickness of product installed in the „Hot box” – 99 mm; 103 mm; 106 mm; 107 mm

Declared thickness of product – 90 mm +/- 10 mm\*

\*Declaration numbers: 220622 Epaisseur AP3; 120722 Epaisseur AP3; 090822 Epaisseur AP4; 010922 Epaisseur AP5

At the center of the specimen installed the beam of polyurethane. Dimension: Width – 50mm, length – 1.13 m, thickness – 99 mm.

(name, description and identification details of a specimen)

**Customer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France

(name and address)

**Manufacturer:** SAS ATI FRANCE, 146 avenue du bicentenaire 01120 Dagneux, France

(name and address)

**Test results:**

| Name of the indicator and unit   | Test method reference no.     | Test result |
|--|-------------------------------|-------------|
| Declared thermal resistance of the core of product<br><b>ATI PRO PREMIUM <math>R_{core} 90/90</math>, (m<sup>2</sup>·K)/W</b>                        | LST EN ISO 16012:2012+A1:2015 | <b>3.52</b> |
| Declared thermal resistance of system with 2 air gaps<br>$R_{sys} 90/90$ , (m <sup>2</sup> ·K)/W   |                               | <b>4.60</b> |
| Declared thermal resistance values determined according to EN ISO 10456:2008<br>Position of specimen: vertical (direction of heat flow – horizontal) |                               |             |

**Tested at:** Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(name of the test laboratory)

**Specimen delivery dates:** 2022-07-19; 2022-10-05 **Date of testing:** 2022-07-27 + 2022-11-02

**Production date:** 2022-06-22 + 2022-09-01

**Sampling:** The test specimens sampled by customer. Description of the sample 2022-07-08; 2022-12-22

**Additional information:** Application 2023-04-05. This report is prepared according to tests reports 159 SF/22 U, 222 SF/22 U, 223 SF/22 U, 224 SF/22 U.

(any deviations, complementary tests, exceptions and any information related with particular test)

**Annexes:** **Annex 1.** Parameters of Guarded Hot Box measurement and  $R_{sys} 90/90$ ;  
**Annex 2.** Specimen air gaps thermal properties;  
**Annex 3.**  $R_{core} 90/90$  thermal resistance value according to LST EN 6012:2012+A1:2015.

(indicate annex numbers and titles)

**Head of Laboratory:** K. Banionis

(approves the test results)

**Tested by:** A. Burlingis

(technically responsible for testing)

(signature)

(n., surname)

(signature)

(n., surname)

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# TEST REPORT COMBI PRO LIN

INSTITUTE OF ARCHITECTURE AND  
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BUILDING PHYSICS LABORATORY

CALCULATION REPORT No. **185 SF/23**

Date: **22 of September 2023**

page (pages)

1 (3)

Determination of installed thermal resistance into a roof and into a wall of  
ATI COMBI PRO LIN according to EN ISO 6946:2017

(test name)

**Test method:** Determination of installed thermal resistance into a roof and into a wall according to EN ISO 6946:2017

(number of normative document or test method, description of test procedure, test uncertainty)

**Product name:** ATI COMBI PRO LIN

(identification of the specimen)

**Customer:** SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

(name and address of enterprise)

**Manufacturer:** SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

**Calculation results:**

| Roof slope angle, $\alpha$  | Calculation method reference no. | Calculation result, $R$ , (m <sup>2</sup> ·K)/W |
|---|----------------------------------|---|
| Flat roof ( $\alpha = 0^\circ$ )  | EN ISO 6946:2017                 | <b>6.61</b>                                     |
| Pitched roof ( $\alpha = 30^\circ$ )  |                                  | <b>6.67</b>                                     |
| Pitched roof ( $\alpha = 45^\circ$ )  |                                  | <b>6.71</b>                                     |
| Wall ( $\alpha = 90^\circ$ )  |                                  | <b>6.85</b>                                     |
| <i>R value for others pitched slope (different <math>\alpha</math> value) can be determined by linear interpolation between two calculated R values</i> |                                  |   |

**Calculation**

**made by:** Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology

(Name of the organization)

**Products used in calculation:** Ventilated air layer (external surface resistance  $R_{se}$ ).  
Multilayer reflective insulation product **ATI PRO LIN-3** (test report no. 138 SF/23 U). Emissivity of ATI PRO LIN-3 upper surface  $\epsilon = 0.85^*$ ; lower surface  $\epsilon = 0.15^*$ ;  
Unventilated air layer 20 mm;  
Multilayer reflective insulation product **ATI PRO PREMIUM** (test report no. 106 SF/23 U). Emissivity of ATI PRO PREMIUM upper surface  $\epsilon = 0.10^*$ ; lower surface  $\epsilon = 0.10^*$ ;  
**\* Declared by the manufacturer**

**Additional information:** Application, 2023-09-20

**Annex:** Annex 1. Calculation results

(the numbers of the annexes should be pointed out)

**Head of Laboratory:** K. Banionis

(approves the test results)

(signature)

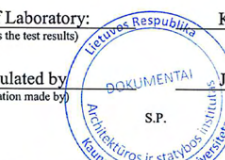
(n., surname)

**Calculated by:** J. Ramanauskas

(calculation made by)

(signature)

(n., surname)



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# TEST REPORT MIX FIBRE DE BOIS OUTDOOR

INSTITUTE OF ARCHITECTURE AND  
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UNIVERSITY OF TECHNOLOGY

BUILDING PHYSICS LABORATORY

CALCULATION REPORT No. 172 SF/23

Date: 05 of September 2023

page (pages)

1 (3)

## Determination of installed thermal resistance into a roof and into a wall of ATI MIX FIBRE DE BOIS according to EN ISO 6946:2017

(test name)

Test method: Determination of installed thermal resistance into a roof and into a wall according to EN ISO 6946:2017  
(number of normative document or test method, description of test procedure, test uncertainty)

Product name: **ATI MIX FIBRE DE BOIS: APRO EXCELLENCE + PAVAFLEX 80**  
(identification of the specimen)

Customer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France  
(name and address of enterprise)

Manufacturer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

### Calculation results:

| Roof slope angle, $\alpha$           | Calculation method reference no. | Calculation result, $R$ , (m <sup>2</sup> ·K)/W |
|--------------------------------------|----------------------------------|---|
| Flat roof ( $\alpha = 0^\circ$ )     | EN ISO 6946:2017                 | 6.15  |
| Pitched roof ( $\alpha = 30^\circ$ ) |                                  | 6.21  |
| Pitched roof ( $\alpha = 45^\circ$ ) |                                  | 6.24  |
| Wall ( $\alpha = 90^\circ$ )         |                                  | 6.39  |

*R value for others pitched sloop (different  $\alpha$  value) can be determined by linear interpolation between two calculated R values*

Calculation made by: Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(Name of the organization)

Products used in calculation: Ventilated air layer 20 mm (external surface resistance  $R_{se}$ ); Metallized membrane,  $\varepsilon = 0.25^*$ ; Multilayer reflective insulation product **APRO** (test report no. 065 SF/23 U); Metallized reinforced perforated film,  $\varepsilon = 0.15^*$ ; Unventilated air layer 20 mm; Fiber wood panel "Pavaflex" 80 mm,  $R = 2.10$  (m<sup>2</sup>·K)/W \*\*  
\* Declared by the manufacturer  
\*\* Certificat Acermi N° 17/006/1259

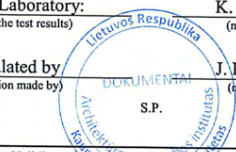
Additional information: Application, 2023-08-25

Annex: Annex 1. Calculation results

(the numbers of the annexes should be pointed out)

Head of Laboratory: K. Banionis  
(approves the test results) (n., surname)

Calculated by: J. Ramanauskas  
(calculation made by) (n., surname)



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# TEST REPORT FIBRE DE BOIS INDOOR

INSTITUTE OF ARCHITECTURE AND  
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UNIVERSITY OF TECHNOLOGY

BUILDING PHYSICS LABORATORY

CALCULATION REPORT No. 234 SF/23

Date: 05 of December 2023

page (pages)

1 (3)

## Determination of installed thermal resistance into a roof and into a wall of ATI MIX FIBRE DE BOIS INTERIEUR according to EN ISO 6946:2017

(test name)

Test method: Determination of installed thermal resistance into a roof and into a wall according to EN ISO 6946:2017 and EN 16863:2023  
(number of normative document or test method, description of test procedure, test uncertainty)

Product name: **ATI MIX FIBRE DE BOIS INTERIEUR**  
(identification of the specimen)

Customer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France  
(name and address of enterprise)

Manufacturer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

### Calculation results:

| Roof slope angle, $\alpha$           | Calculation method reference no. | Calculation result, $R$ , (m <sup>2</sup> ·K)/W |
|--------------------------------------|----------------------------------|---|
| Flat roof ( $\alpha = 0^\circ$ )     | EN ISO 6946:2017                 | 6.13  |
| Pitched roof ( $\alpha = 30^\circ$ ) |                                  | 6.18  |
| Pitched roof ( $\alpha = 45^\circ$ ) |                                  | 6.21  |
| Wall ( $\alpha = 90^\circ$ )         |                                  | 6.33  |

*R value for others pitched sloop (different  $\alpha$  value) can be determined by linear interpolation between two calculated R values*

### Calculation

made by: Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(Name of the organization)

Products used in calculation: Ventilated air layer (external surface resistance  $R_{se}$ ); Wood fiber panel "Pavaflex" 80 mm,  $\lambda_{ef} = 0.038$  W(m·K);  $R = 2.10$  (m<sup>2</sup>·K)/W\*;  $\varepsilon = 0.90$ . Multilayer reflective insulation product **ATI PRO PREMIUM** (test report no. 106 SF/23 U). Emissivity of ATI PRO PREMIUM upper surface  $\varepsilon = 0.10^{**}$ ; lower surface  $\varepsilon = 0.10^{**}$ . Unventilated air layer 20 mm.  
\* CERTIFICAT ACERMI N° 17/006/1259 Licence n° 17/006/1259  
\*\* Declared by the manufacturer

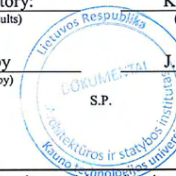
Additional information: Application, 2023-11-08

Annex: Annex 1. Calculation results

(the numbers of the annexes should be pointed out)

Head of Laboratory: K. Banionis  
(approves the test results) (n., surname)

Calculated by: J. Ramanauskas  
(calculation made by) (n., surname)



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# TEST REPORT

## MIX OUATE DE CELLULOSE OUTDOOR

INSTITUTE OF ARCHITECTURE AND  
CONSTRUCTION OF KAUNAS  
UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY

CALCULATION REPORT No. **173 SF/23**

Date: **05 of September 2023**

page (pages)

1 (3)

### Determination of installed thermal resistance into a roof and into a wall of ATI MIX OUATE DE CELLULOSE according to EN ISO 6946:2017

(test name)

Test method: Determination of installed thermal resistance into a roof and into a wall according to EN ISO 6946:2017  
(number of normative document or test method, description of test procedure, test uncertainty)

Product name: **ATI MIX OUATE DE CELLULOSE: APRO EXCELLENCE + PAVACELL P 80**  
(identification of the specimen)

Customer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France  
(name and address of enterprise)

Manufacturer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

#### Calculation results:

| Roof slope angle, $\alpha$           | Calculation method reference no. | Calculation result, $R$ , (m <sup>2</sup> ·K)/W |
|--------------------------------------|----------------------------------|---|
| Flat roof ( $\alpha = 0^\circ$ )     | EN ISO 6946:2017                 | <b>6.10</b>                                     |
| Pitched roof ( $\alpha = 30^\circ$ ) |                                  | <b>6.16</b>                                     |
| Pitched roof ( $\alpha = 45^\circ$ ) |                                  | <b>6.19</b>                                     |
| Wall ( $\alpha = 90^\circ$ )         |                                  | <b>6.34</b>                                     |

*R value for others pitched sloop (different  $\alpha$  value) can be determined by linear interpolation between two calculated R values*

Calculation made by: Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(Name of the organization)

Products used in calculation: Ventilated air layer 20 mm (external surface resistance  $R_{se}$ ); Metallized membrane,  $\varepsilon = 0.25^*$ ; Multilayer reflective insulation product **APRO** (test report no. 065 SF/23 U); Metallized reinforced perforated film,  $\varepsilon = 0.15^*$ ; Unventilated air layer 20 mm; Cellulose fiber panel "Pavacell P" 80 mm,  $\lambda_{ref} = 0.039$  W(m·K);  $R = 2.05$  (m<sup>2</sup>·K)/W \*\*  
\* Declared by the manufacturer  
\*\* Dossier / File P233719 – Document DEC / 1

Additional information: Application, 2023-08-25

Annex: Annex 1. Calculation results

(the numbers of the annexes should be pointed out)

Head of Laboratory: K. Banionis  
(approves the test results) (n., surname)

Calculated by: J. Ramanauskas  
(calculation made by) (n., surname)



Validity – the named data and results refer exclusively to the tested and described specimens.  
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# TEST REPORT

## MIX OUATE DE CELLULOSE INDOOR

INSTITUTE OF ARCHITECTURE AND  
CONSTRUCTION OF KAUNAS  
UNIVERSITY OF TECHNOLOGY  
BUILDING PHYSICS LABORATORY

CALCULATION REPORT No. **233 SF/23**

Date: **05 of December 2023**

page (pages)

1 (3)

### Determination of installed thermal resistance into a roof and into a wall of ATI MIX OUATE DE CELLULOSE INTERIEUR according to EN ISO 6946:2017

(test name)

Test method: Determination of installed thermal resistance into a roof and into a wall according to EN ISO 6946:2017 and EN 16863:2023  
(number of normative document or test method, description of test procedure, test uncertainty)

Product name: **ATI MIX OUATE DE CELLULOSE INTERIEUR**  
(identification of the specimen)

Customer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France  
(name and address of enterprise)

Manufacturer: SAS ATI FRANCE, 146 Avenue du Bicentenaire – FR-01120 Dagneux, France

#### Calculation results:

| Roof slope angle, $\alpha$           | Calculation method reference no. | Calculation result, $R$ , (m <sup>2</sup> ·K)/W |
|--------------------------------------|----------------------------------|---|
| Flat roof ( $\alpha = 0^\circ$ )     | EN ISO 6946:2017                 | <b>6.08</b>                                     |
| Pitched roof ( $\alpha = 30^\circ$ ) |                                  | <b>6.13</b>                                     |
| Pitched roof ( $\alpha = 45^\circ$ ) |                                  | <b>6.16</b>                                     |
| Wall ( $\alpha = 90^\circ$ )         |                                  | <b>6.28</b>                                     |

*R value for others pitched sloop (different  $\alpha$  value) can be determined by linear interpolation between two calculated R values*

#### Calculation

made by: Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology  
(Name of the organization)

Products used in calculation: Ventilated air layer (external surface resistance  $R_{se}$ ); Cellulose fiber panel "Pavacell P" 80 mm,  $\lambda_{ref} = 0.039$  W(m·K);  $R = 2.05$  (m<sup>2</sup>·K)/W \*;  $\varepsilon = 0.90$ . Multilayer reflective insulation product **ATI PRO PREMIUM** (test report no. 106 SF/23 U). Emissivity of ATI PRO PREMIUM upper surface  $\varepsilon = 0.10^{**}$ ; lower surface  $\varepsilon = 0.10^{**}$ . Unventilated air layer 20 mm.  
\* Dossier / File P233719 – Document DEC / 1  
\*\* Declared by the manufacturer

Additional information: Application, 2023-11-13

Annex: Annex 1. Calculation results

(the numbers of the annexes should be pointed out)

Head of Laboratory: K. Banionis  
(approves the test results) (n., surname)

Calculated by: J. Ramanauskas  
(calculation made by) (n., surname)



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# TEST REPORT AIRFLEX

INSTITUTE OF ARCHITECTURE AND  
CONSTRUCTION OF KAUNAS  
UNIVERSITY OF TECHNOLOGY  
LABORATORY OF BUILDING PHYSICS



LIETUVOS  
NACIONALINIS  
AKREDITACIJOS  
BIURAS

BANDYMAI  
ISO/IEC 17025 Nr. I.A. 01.031

RECUIE

TEST REPORT No. **032-A SF/16 U**

Date: **16 of May 2016**

page (pages)

1 (6)

## Determination of thermal resistance of reflective insulation product according LST EN 16012:2012+A1:2015 and LST EN ISO 8990:1999

(test title)

**Test method:** LST EN 16012:2012+A1:2015: Thermal insulation for buildings-Reflective insulation products-Determination of the declared thermal performance;  
LST EN ISO 8990:1999 Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box (ISO 8990:1994).  
(number of normative document or test method, description of test procedure, test uncertainty)

**Specimen description:** Airflex (Maxireflex); reflective insulation product  
Nominal thickness (EN 823) – 13 mm  
(name, description and identification details of a specimen)

**Customer:** XL.Mat SAS, 697 route des Chenes, ZA de Terre Neuve, 73200 Gilly Sur Isere, France  
(name and address)

**Manufacturer:** XL.Mat SAS, 697 route des Chenes, ZA de Terre Neuve, 73200 Gilly Sur Isere, France  
(name and address)

### Test results:

| Name of the indicator and unit                                       | Test method reference no.      | Test result |
|--|--------------------------------|-------------|
| Thermal resistance $R_t$ ( $m^2 \cdot K/W$ )                         | LST EN ISO 8990:1999           | 1,640       |
| Corrected $R_{core}$ thermal resistance, ( $m^2 \cdot K/W$ )         | LST EN ISO 16012:2012+A1:2015* | 0,367       |
| Position of specimen: vertical (direction of heat flow – horizontal) |                                |             |
| *flexible scope  |                                |             |

**Tested at:** Laboratory of Building Physics, Institute of Architecture and Construction of Kaunas  
University of Technology  
(name of the test laboratory)

**Specimen delivery date:** 2016-03-21 **Date of testing:** 2016-04-07

**Sampling:** The test specimen sampled by customer.

**Additional information:** Application 2016-01-20.  
(any deviations, complementary tests, exceptions and any information related with particular test)

**Annexes:** *Annex 1.* Test results;  
*Annex 2.* Parameters of Guarded Hot Box measurement;  
*Annex 3.* Specimen products and air gaps thermal properties;  
*Annex 4.* Perimeter zone's linear thermal transmittance value of the specimen;  
*Annex 5.* Specimen design data;  
*Annex 6.* Scheme of climate chamber „Hot box“.  
(indicate annex numbers and titles)

Technical manager:  
(approves the test results)

Tested by:  
(technically responsible for testing)



(signature)

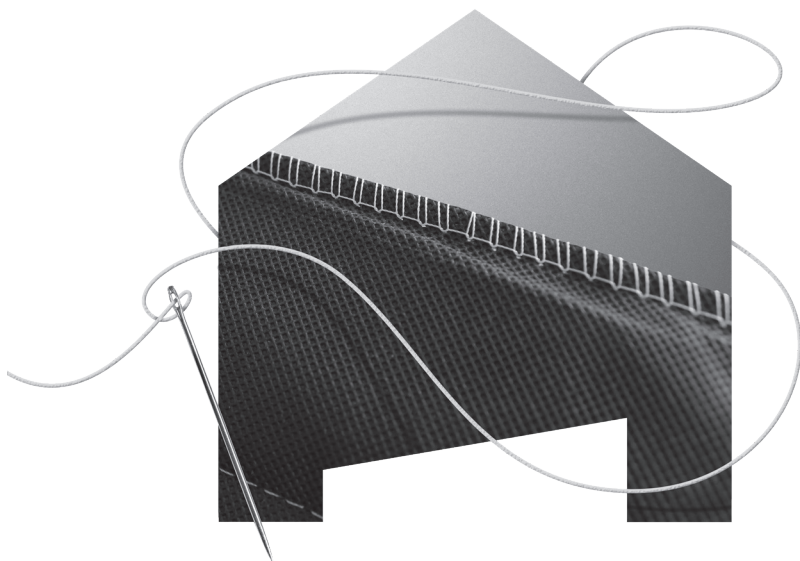
(signature)

J. Ramanauskas  
(n., surname)

A. Burlingis  
(n., surname)


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