FRANCE

La FRENCH TECH

Air Booster

Aerothermal energy

RÉGION Nouvelle-Aquitaine

BORDEAUX TECHNOWEST

Heating, a huge cost !

2/3 of energy expenditure in buildings

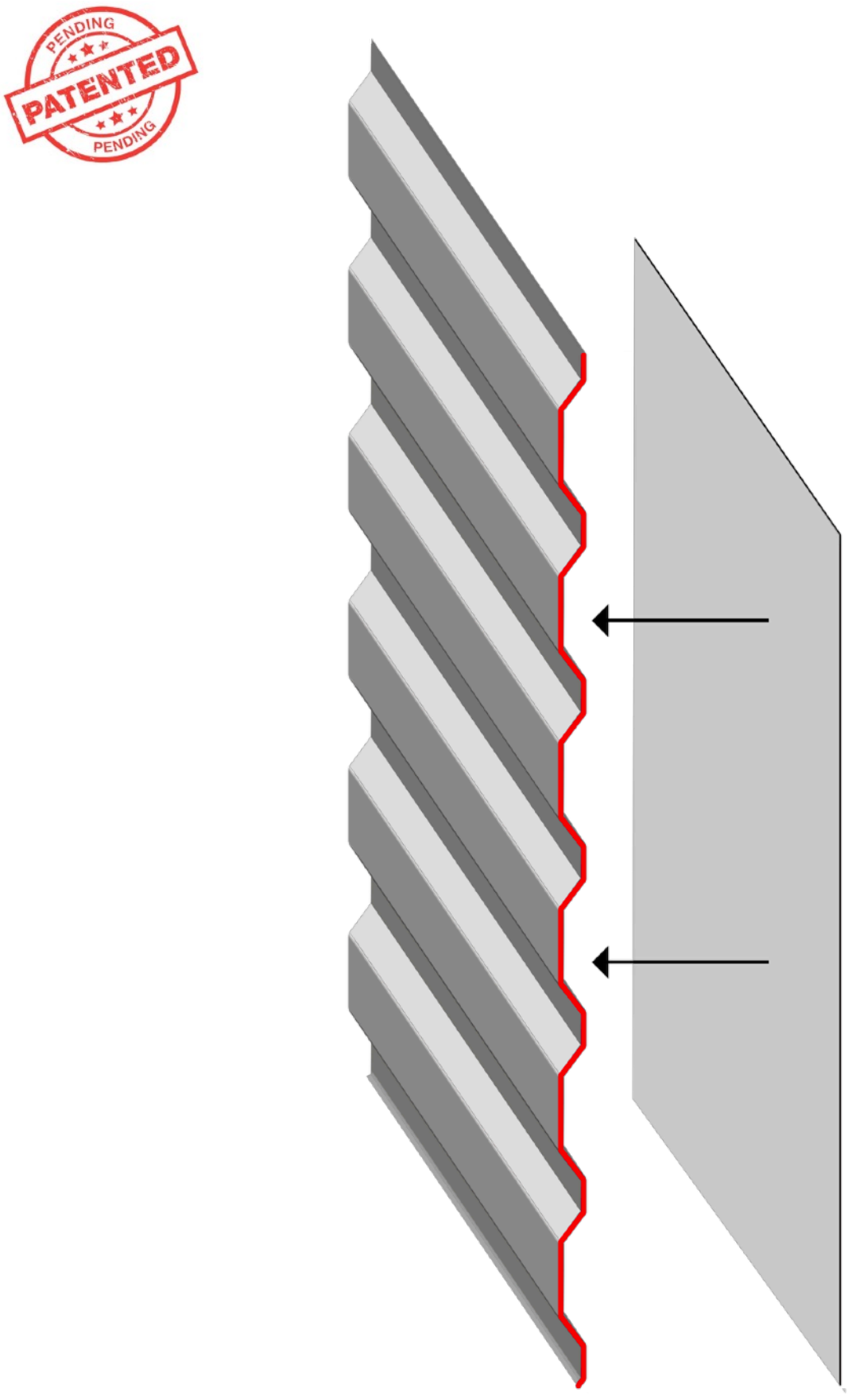
More than 150 billion € / year in France

Did you know ?

In winter, on a sunny day, the temperature of the cladding sheet on the walls of metal frame buildings is between 55 and 61°C.

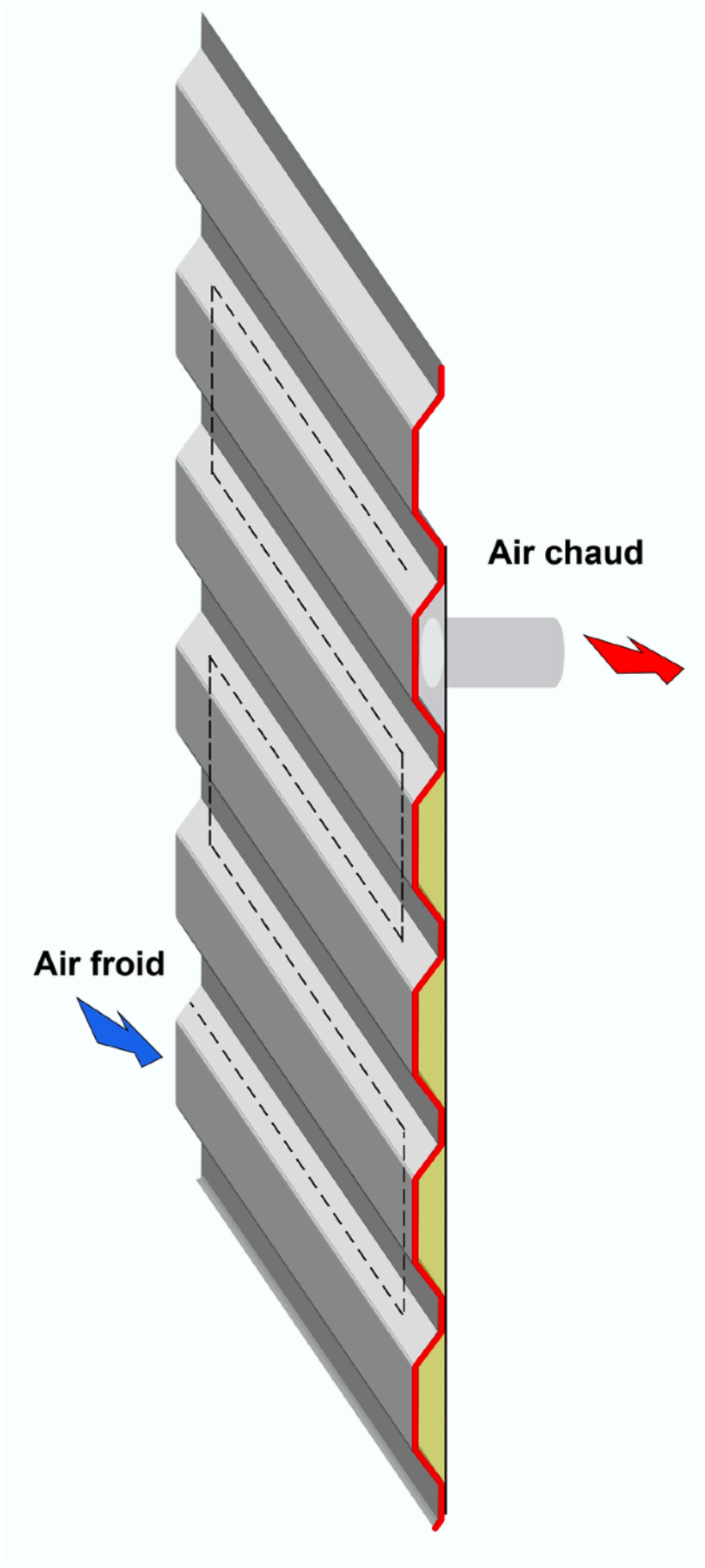
What if we valued this energy ?

The solution, the aerothermal wall



Close the ribs to form ducts.

The solution, the aerothermal wall



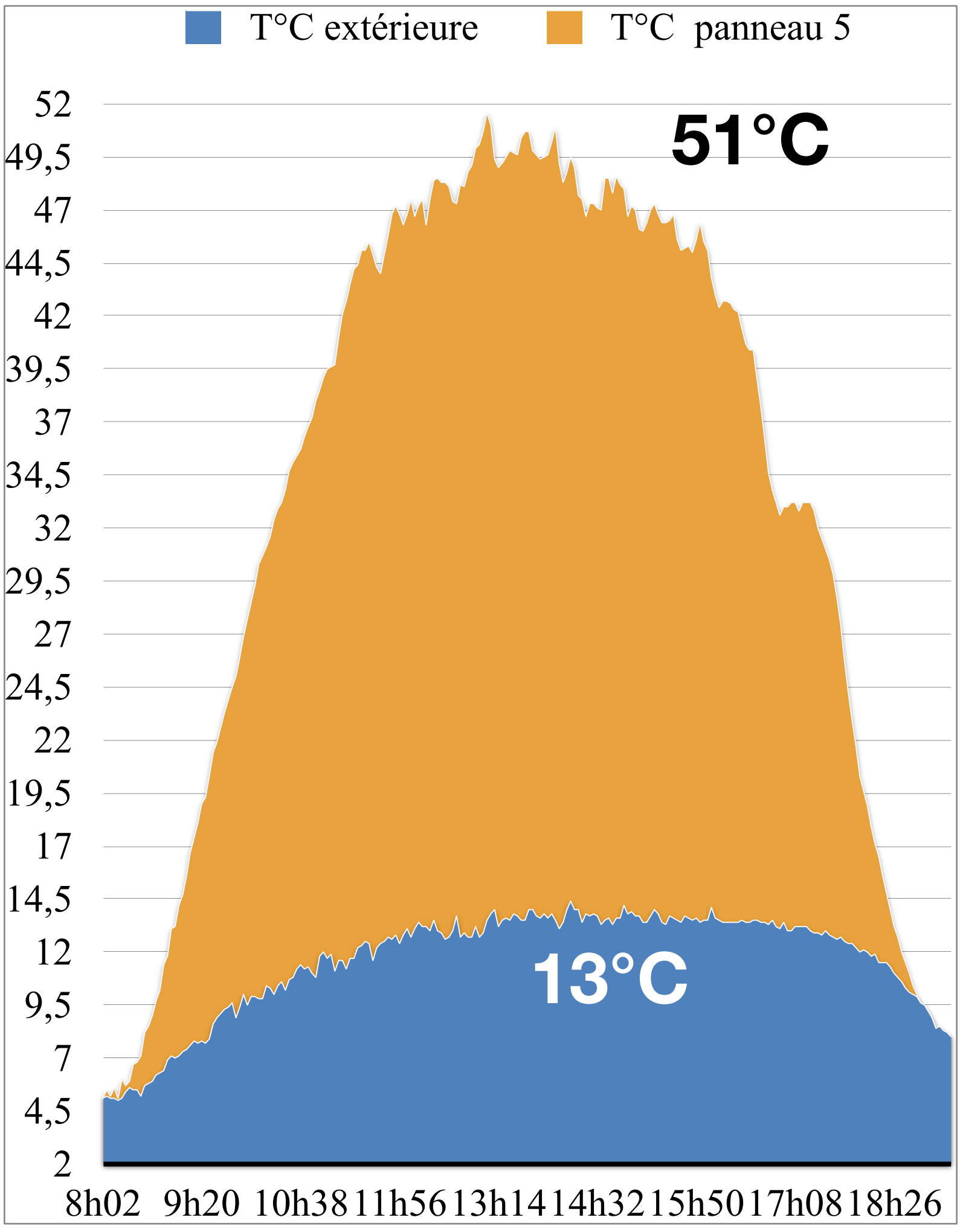
Circulate the cold outside air to gain an additional 38 ° C and inject it indoors.

The different prototypes

Wall / ground version (drying).

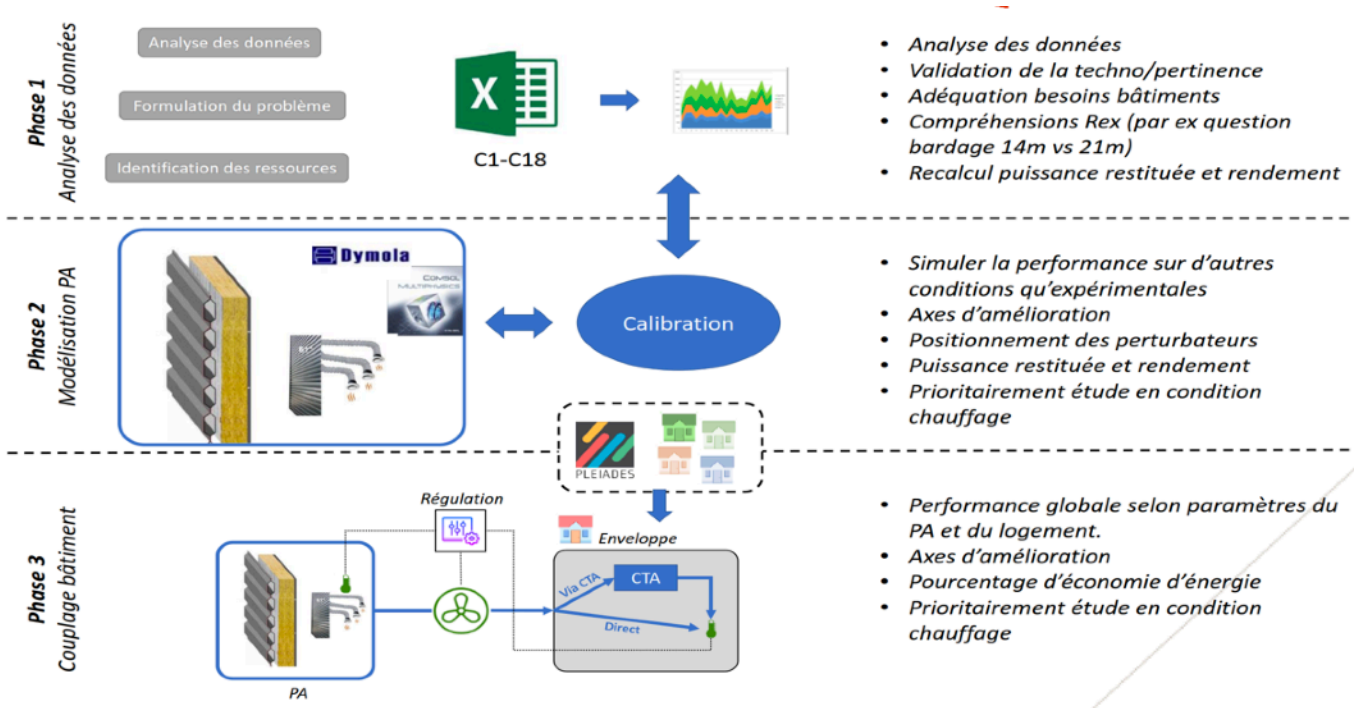
Figures for February 21, 2020

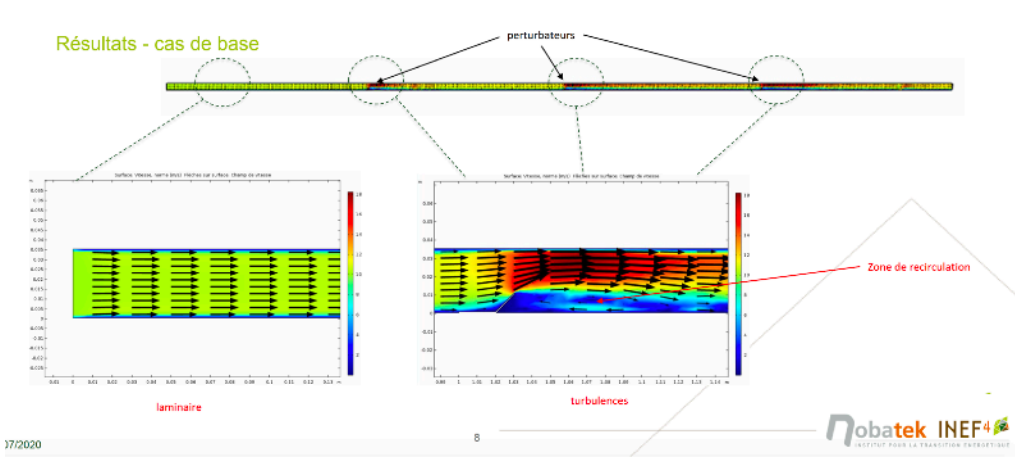
600Wp/m²

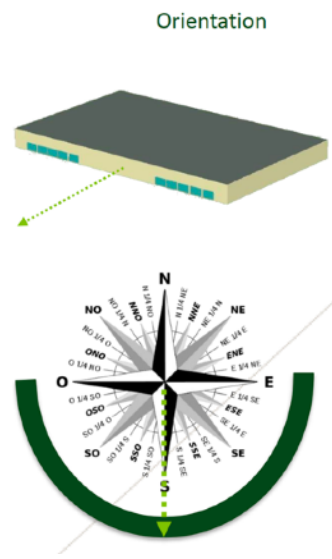


Figures certified by NOBATEK

The NOBATEK design office

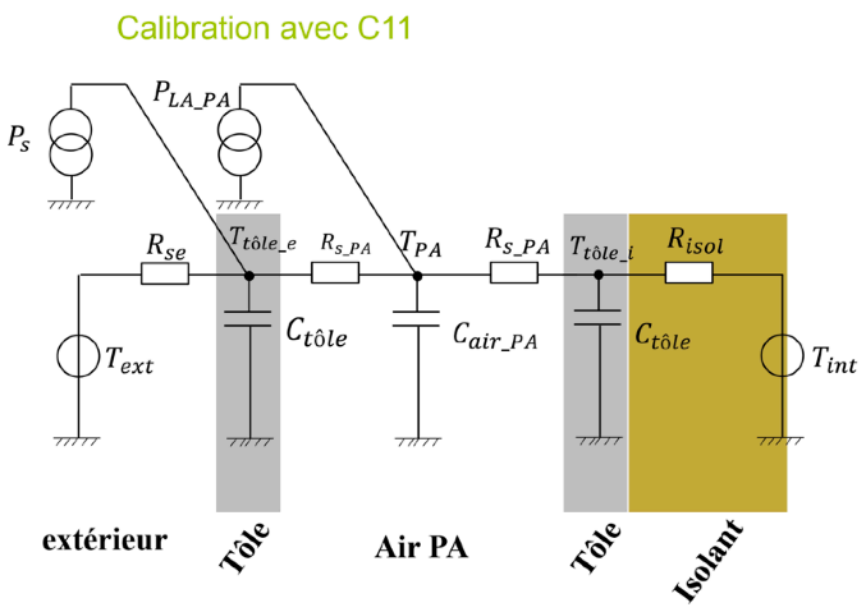


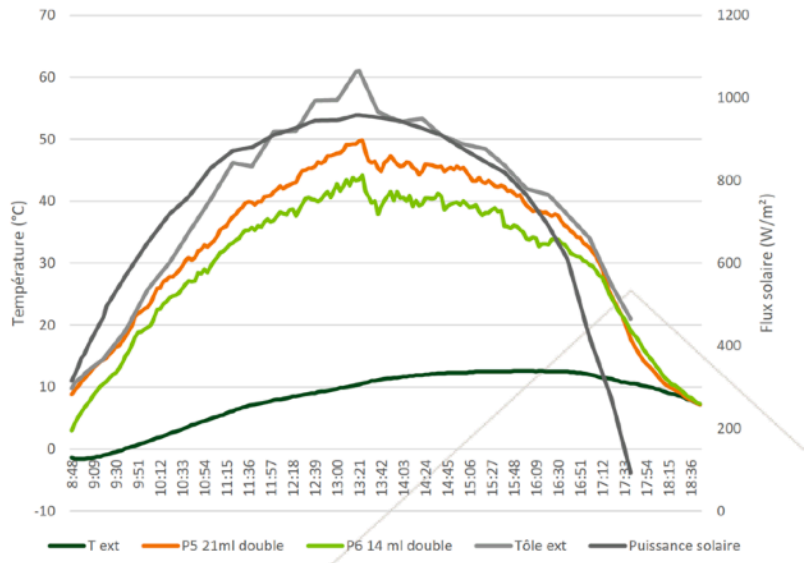




PHASE 2 – MODÉLISATION PA

MODÉLISATION DU PA





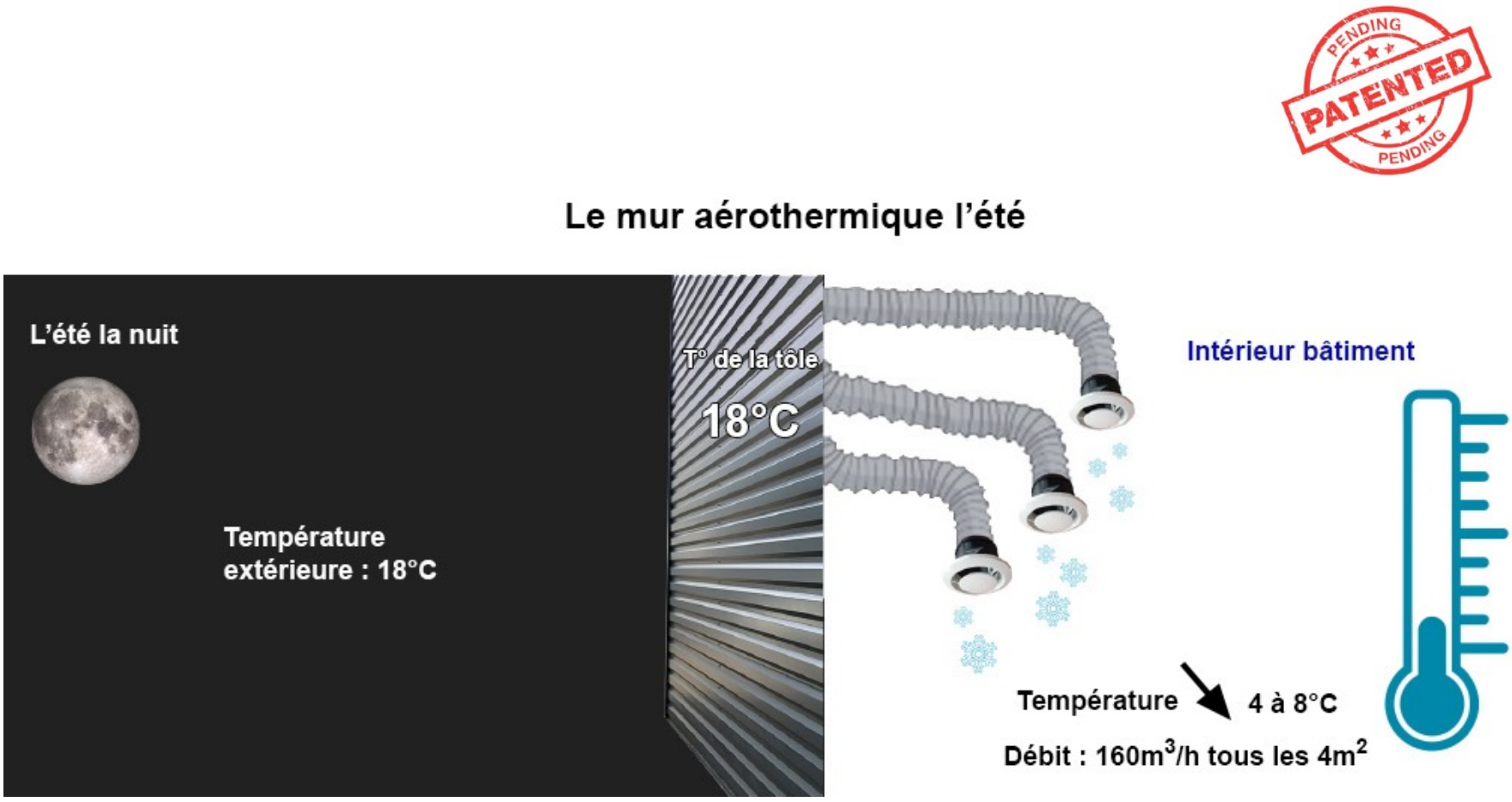
Innovation :
winter heater mode

On a sunny winter day, when the outside temperature is only 8.5 ° C, the air circulating in the channels heats up on contact with the sheet metal heated by the sun to 58 ° C.

The air thus heated reaches 48 ° C and is then routed inside the building at a rate of 160m3 / h every 4m2.

For a building of 1000m2, with a surface of 100m2 of aerothermal panels, you obtain a thermal power of 60,000 Wp.

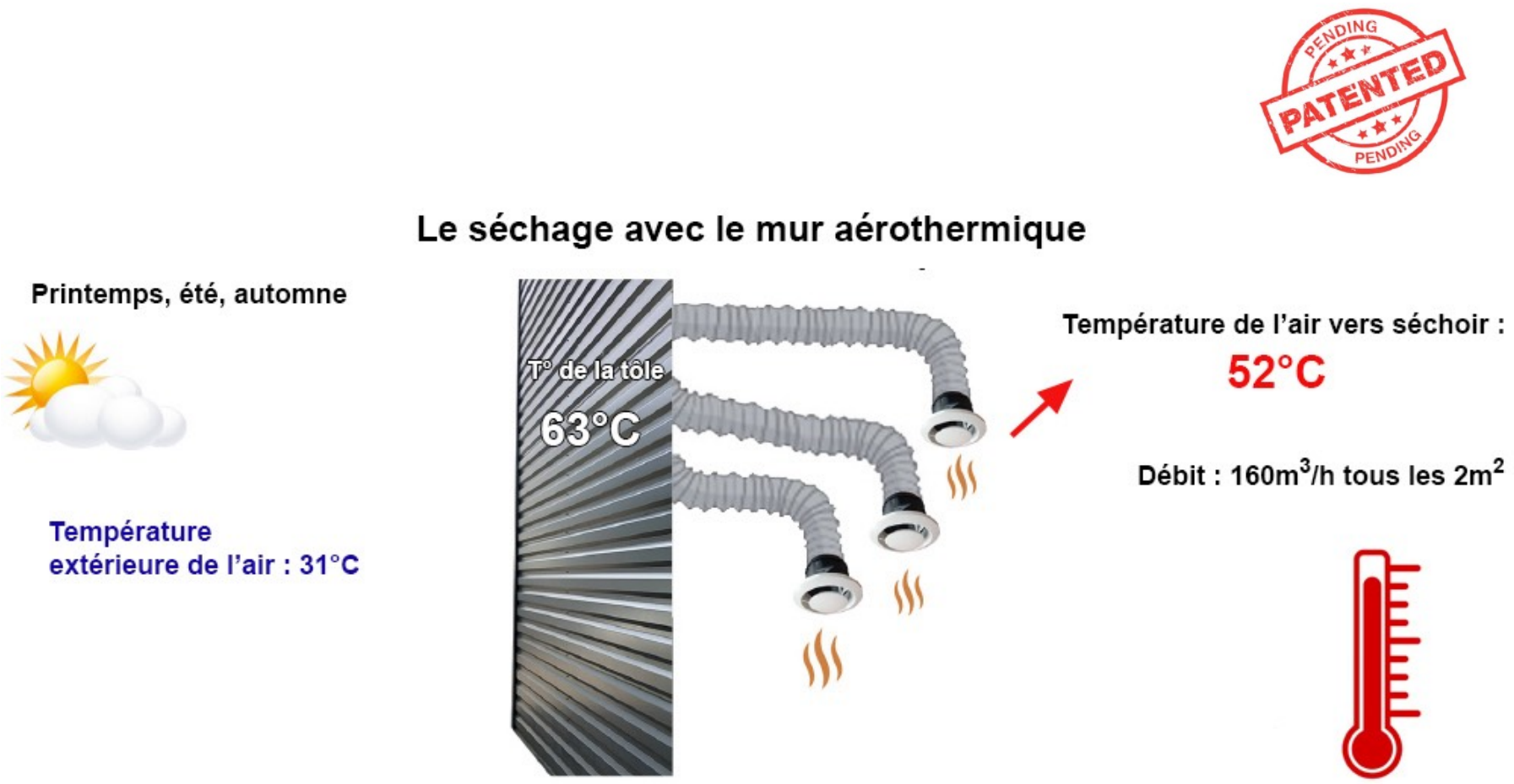
Innovation :
summer cooling mode



In summer, at night, the temperature drops steadily to between 13 and 20 ° C.
Due to its very low inertia, the temperature of the sheet is the same as that of the air with a lag of a few minutes. When the temperature outside drops below that inside, a probe controls the air circulation and cools the temperature inside the building from 4 to 8 ° C at a rate of 160m3 / h every 4m2.

Arriving in the morning, it is comfortable for the occupants and the air conditioning is delayed.

Innovation :
wall drying mode



During the day, in spring, summer and autumn, under the effect of the sun, the sheet regularly reaches 63 ° C. The air circulating in the channels heats up to reach 52 ° C, then is conveyed inside the building or to a dryer at the rate of 160m3 / h every 4m2.

For a building of 1000m2, with a surface of 100m2 of aerothermal panels, you obtain a thermal power of 70,000 Wp with a flow rate of 4,000m3 / h.

Depending on your needs, you can dry cereals, grass, wood, industrial waste, paper, sludge from sewage treatment plants ...

Innovation :
floor drying mode

In its version on the ground (or on the roof), in spring, summer and autumn, under the effect of the sun, the sheet regularly reaches 79 ° C. The air circulating in the channels heats up to reach 69 ° C, then is conveyed inside the building or to a dryer at the rate of 160m3 / h every 4m2.

With a surface of 200m2 of aerothermal panels, you obtain a thermal power of 170,000 Wp with a flow of 8,000m3 / h.

Due to its adjustable inclination, the recovered power is maximum. You can dry cereals, grass, wood, industrial waste, paper, sludge from wastewater treatment plants ...

€

Up to 83 % savings

120 times

more energy produced than consumed

+ 38°C
in winter

Heating

-4 à -8°C
in summer

Cooling

Drying

Other advantages

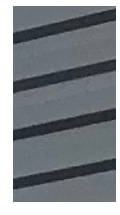
Compatible new and renovation

Makes the habitat passive

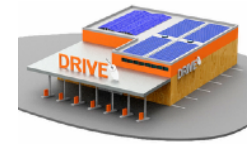
Absence de Composé Organique Volatil

Reliable, Durable

Healthy air



Invisible
Same art rules



Free space on the roof

A single Canadian competitor

The Air Booster aerothermal wall is :

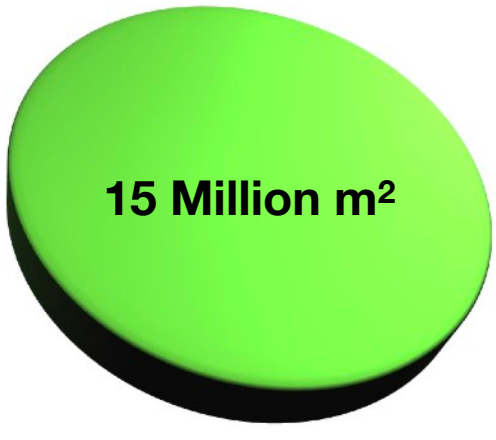
- **More efficient**
- **More versatile**
- **Compatible with all types of walls**
- **Much cheaper**
- **Best R.O.I**

Customers, market

- **Builders of metal buildings (700 in France source SCMF)**
- **Cladding installers**
- **Companies specializing in energy renovation**
- **Companies specializing in drying**

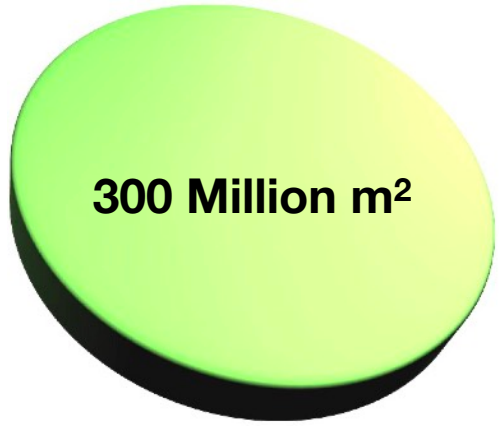
Buildings :
- **Commercial**
- **for office use**
- **Industrial**
- **Storage**
- **Agricultural**

New



Surface built in 2018 according to the FFB

Renovation



Estimated area over 20 years

Business model

b to b to c

- **New** (metal building builders)
- **Renovation** (companies in energy renovation)
- **Drying** (all types of drying)

R.O.I : between 3 et 8 years

1%
french market
(only new)
=
3,1 M€
turnover

State of progress
&
outlook

Done

Statutes

Prototypes

Patent 1 et 2

Design office Nobatek

Do

Pilote site (C-discount/others)

Technical advice

Technical partners :

- **Temporary**
- **Final**

Financial partners

To do

Industrial partners

« Titre V »

Industrialization

Business Development

Patent 3 and 4

Heating market

International Development

…

They accompany me

Xavier PICAMOLES

Physician consultant

Grégory BOUTTEAU

Spécialist renewable energy

Christophe FOURCAUD

Founder Air Booster

Gérald DANTONY

Génie climatique

Eric BUYTAERT

Développeur marché BTP

BORDEAUX TECHNOWEST

Air Booster

Partner, Customer ?

Interested in R’ Booster project ?

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