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POUGET
Consultants



Refurbishment of Existing buildings

Interior thermal
insulation
in situ
with VIP



V I P A

27 SEPTEMBER VIENNA

MORE SPACE AND SAVING ENERGY WITH VACUUM INSULATION PANELS

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REFURBISHMENT OF THE EXISTING BUILDING STOCK

Content

The « climate » challenge, towards 2050 !

The French context

Interior thermal insulation

Our trials...

The challenge of a 1-day-jobsite !

REFURBISHMENT OF THE EXISTING BUILDING STOCK

The « climate » challenge, towards 2050 !

The objective

carbon neutrality in 2050 (Paris agreement)

The journey for the existing buildings

- 1/ Reduce the energy consumption
- 2/ Go towards the renewable energies

Reduce the energy consumption

Massification of the thermal insulation!



REFURBISHMENT OF THE EXISTING BUILDING STOCK

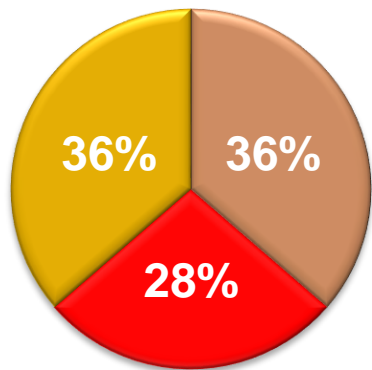
The French context

The target

The building sector: first energy consumer !

The dwelling stock...

≈ about 10 millions dwellings to insulate from the inside* !



- Before 1948
- between 1948 et 1974
- After 74

≈ 32 millions existing dwellings
≈ 20 millions < 1st thermal regulation
≈ 50 % are not suitable for external insulation!



*caution to the vapour migration in function of the composition of the original wall

Interior thermal insulation

The constraints when doing it in situ

- Noises / constraints for the occupants
- Implying other works
- Space taken on the occupants' living space
- Time of the works, drying time

One solution !

- Industrial process to **prepare the work !**
- Setting up the **VIP** as dry solutions !



REFURBISHMENT OF THE EXISTING BUILDING STOCK

Our trials...



2007 Paris



2009 Villejuif



2011 Paris
The 1 days jobsite !



2017 Nantes



2015 Paris, NEW
The 1 day jobsite !



2013 Nantes, our offices!



2018 Bordeaux

REFURBISHMENT OF THE EXISTING BUILDING STOCK

Interior insulation in situ:

« *VIP = The challenge of a 1-day-jobsite!* »

<https://www.youtube.com/watch?v=BiQD7MhDonI>
2'14''

<https://www.youtube.com/watch?v=FDqoJY-79uU>
1'40''

Isolation thermique par l'intérieur en site occupé - septembre 2011

PCons75 S'abonner 1 vidéo



The video player shows a thermal insulation chart with energy classes A through G. The chart is titled 'Logement économique' and 'Logement dévoreur'. The 'après' (after) value is 95 kWh/m², and the 'avant' (before) value is 256 kWh/m². The chart shows a significant improvement from class G to class A. Two men are standing in a room, one pointing towards the camera.

1:56 / 2:15

J'aime Partager 1 317

Ajoutée par PCons75 le 7 déc. 2011

Le guide ABC en parle, POUGET Consultants l'a réalisé, le défi de l'isolation thermique par l'intérieur en site occupé ! Atteindre les objectifs du Grenelle de l'Environnement oblige une intervention



REFURBISHMENT OF THE EXISTING BUILDING STOCK



Less studies, more jobsites !