

Building & Construction Market: A French Perspective



By Benoit HENNAUT Vice president of French “Fédération de la plasturgie et des composites”, President of STR-PVC

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Building government position:

A recovery plan for the construction of 500 000 homes per year was launched by the French Government.

The aim was to meet the challenges of French on housing.

This plan was also made help to support a struggling sector .

Since the beginning of this year, the French building construction sector announce a rise of 1,7%.

But, from 2011, the economic situation has been very difficult for building and construction market.

Building government position:

A long term policy plan for tackling environmental issues and promoting sustainable development



Some objectives for Construction Sector:

- All new building consume less than 50 KWh\m²\year
- 38 % of energy consumption reduction on existing stock by 2020
- 23% of renewable energy for building by 2020
- Reduction of consumption of natural resources and water
- “Revolution”: from compulsory solutions (equipment, design, products, ...) to performance warranty

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Plastic as a solution in Building and construction area :

Although their share remains minor in weight , plastics are well knowed materials in construction .

Their use in building has doubled in twenty years.

For raw material producers and polymer products producers, the French building and construction sector represents a huge challenge.

It already accounts for a quarter of sales polymers sales in Europe.

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PRODUCTS IN BUILDING AND CONSTRUCTION AREA:

- Windows,
- Profiles,
- Pipes and fittings,
- Bathroom and kitchen equipment ,
- Flooring,
- Insulation and sound-proof walls,
- Cellar insulation
- ...

Plastics have entered the building through multiple applications.

To convince definitely builders and architects , they must still innovate



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PLASTIC MATERIALS IN BUILDING AND CONSTRUCTION AREA

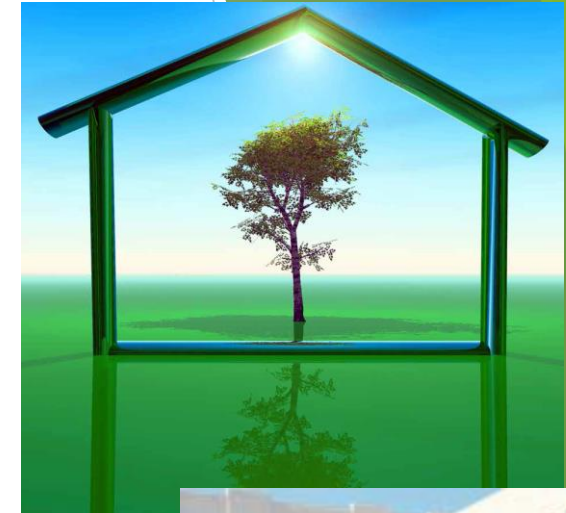
The plastic product share has doubled in twenty years in the Building and Construction area.

PVC plays the main lead role in these advances.

First introduced in the pipeline sectors , flooring , cable and window profiles , PVC continues to expand into other applications such as cladding.

PMMA (polymethyl methacrylate) is widely introduced in the glass roof and the equipment of the bathroom.

Gradually, all kinds of polymers are part of the construction: the cellular plastics for insulation, more technical polymers in organic glazing.



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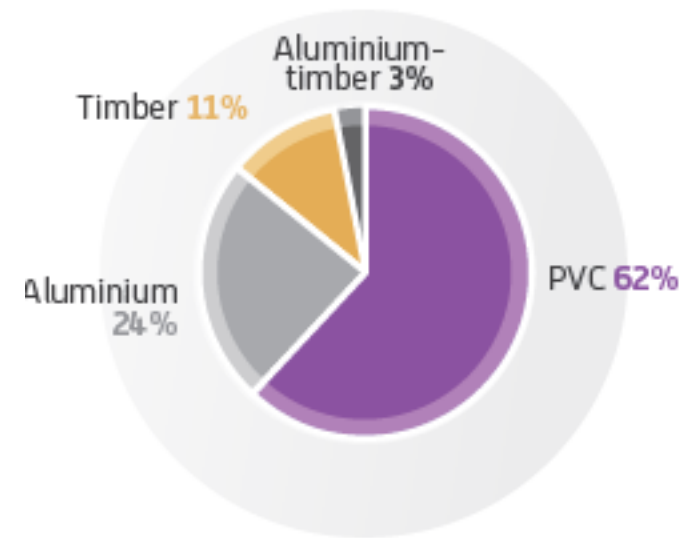
Example of PVC windows:

Manufacturers of PVC profiles for building applications :

- have been prioritizing superior comfort, safety and well-being for users.
- minimize their products impact on the environment.
- 9 millions of windows were installed in France in 2015



Focus on the window market in France*



190,000⁺
tonnes of PVC profiles

PLASTIC REASONS OF A SUCCESS!



Durability and resistance to corrosion

Plastics are durable, making them ideal for applications such as window frames and pipes.



Furthermore, their anti-corrosion properties provide them with an impressive life span which can reach over 100 years for plastic pipes and 50 years for underground and exterior cables.



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PLASTIC REASONS OF A SUCCESS !

Insulation

Plastics provide effective insulation from cold and heat, prevent leakages and allow households to save energy while also reducing noise pollution.

Hygienic

Plastic pipes are ideal for water transportation. Plastics also stand as a hygienic choice for household surfaces and floor coverings as they are easy to clean and impermeable.



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PLASTIC REASONS OF A SUCCESS !

Innovation

Over the past decades, plastics have inspired architects to design buildings with innovative shapes, features and dimensions.

Moreover, their characteristics are constantly improved, thus contributing to reducing the cost and increasing the efficiency of building



PLASTIC REASONS OF A SUCCESS !

Fire safety

Historically, many plastic products in B&C have been assessed according to their reaction and resistance to fire.

Smoke detectors, alarms and automated fire fighting systems are mostly made of plastics

the success of PVC, the leading polymer in the sector, is largely due to its intrinsic fire safety characteristics.



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PLASTIC REASONS OF A SUCCESS !

Plastic applications :

- easy to install,
- take up limited space,
- require minimal upkeep
- continue to function to their full potential for decades.

The typical lifespan of plastic applications in building and construction is 30 to 50 years, with many plastics pipes installed over 50 years ago continuing to function



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In France, sectors and products in development are:

- Sustainable and ecological building,
- green building ,
- Energy efficiency in the building ,
- Smart building and home automation ;
- Products with innovative design or materials.
- Building information modelling



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• Thank you for your attention !

