



## FLEXBRICK®, architectural tissues to dress outstanding projects

Nowadays, being different is essential to stand out in any aspect. This is especially relevant in architecture, and Flexbrick® can be the best partner to achieve that uniqueness. Flexbrick® is a customised constructive system based on a flexible steel mesh in which a wide range of materials can be inserted to wrap architectural spaces. All in all, a new sustainable concept of architecture embodying an innovative solution to tailor the best projects possible, expressing uniqueness through pattern, format and materials.

Flexbrick®'s concept was created in 1997 by professor Vicente Sarrabio, and has evolved quite a bit since its inception. It is based on a new and exclusive way to understand architecture, aiming to provide a wide spectrum of revolutionary ceramic surfaces whilst improving traditional and manual installation techniques. Furthermore, Flexbrick® guarantees a highly flexible and safe system to “dress” façades, roofs, pavements, vaults, panels, pergolas, and, among others, exploring new bonds with textile architecture.

Flexbrick®'s main contribution lies in the fact that it is very fast to coat any surface working as a large format tissue of small elements, both providing elegance and a uniqueness. This constructive system can be implemented on any type of projects thanks to its high degree of accuracy, versatility, and customised design. Moreover, installing a ceramic textile façade is as effortless as hanging a curtain: it merely requires stainless steel rails to be attached to the Flexbrick® mesh to support it. Then, they are bolted onto support brackets, which have previously been anchored to the facing slabs.

On the other hand, it should be noted that universities and laboratories have always supported Flexbrick® throughout its development process. Flexbrick® system has tested its performance on several wind tunnels to certify it as a highly safe system that can withstand high efforts of wind. In addition, Flexbrick® has obtained several ATEXs certifications in France and it is currently ending the process to obtain DAU certification in Spain and beginning the ETA certification tests for European market.

To conclude, Flexbrick® system shines for its uniqueness, the endless design possibilities it offers and its versatility, allowing a wide range of multifunctional applications. Definitely, an elegant and expressive constructive system to stand out and explore a new architectural paradigm without limits.

## Benefits of the Flexbrick® System

- **Design**

Flexbrick® can be used to create patterns by combining multiple textile configurations (in broken formation, grid, openwork, etc.) and colour ranges. Design also can change if it is needed: transforming an opaque façade into a lattice, opening holes for windows, etcetera.

- **Versatility.**

This new industrialized system allows multiple uses of the same material in different parts of the construction, while maintaining uniformity of textures and colours.

- **Variety of materials**

Flexbrick® began as a ceramic textile; due to the application of new technologies, it offers today solutions with different materials such as glazed tiles, bamboo, wood, steel, plastic 100% recycled, granite, marble or glass.

- **Durability**

The materials used in this building system have a long-life use. Components like stainless steel 316 have a very long lifetime as well as the different material of the pieces, made to endure.

- **Large-scale formats**

It is possible to design and construct using large-scale formats up to 20 meters, which leads to noticeable savings on labour and time.

- **Logistical savings**

Flexbrick® is transported folded on pallets, taking up less space and making it easier to move.

- **Multifunctional**

It is possible to apply Flexbrick® to pavements, façades and roofs by modifying less than 10% of its components.

- **Precision**

Thanks to the use of metallic mesh, the joints stay perfectly in line over any length.

- **Optimal execution performance**

Laying with a crane significantly speeds up the construction process, and the finish is already incorporated in one single operation.

- **Safety**

Flexbrick® system has obtained several ATEX certifications in France and it is being tested to obtain DAU certificate by the Catalonia Institute of Construction Technology (ITeC).

- **Sustainability.**

Flexbrick® ceramic sheets are produced with natural materials manufactured using clean fuel such as biogas. The rest of the components like stainless steel, or other proposed materials are 100% recyclable materials, meaning a significant reduction in CO2 emission.





## Awards

### Awards to Flexbrick® concept

2011 **Construmat Awards**. Finalist in Technological innovation  
Awarded by Construmat 2011.

2011 **Catalonia Construction awards** 1st prize to innovation in construction  
Awarded by the association of Technical Architects of Barcelona.

2012 **INNO Green Forum 2012** 1st Prize to best non vegetal product  
Awarded by Green Forum Salon, Feria de Girona  
Asociación de Viveristas de Girona, Gremio de Jardinería de Cataluña

2014 **AEC Award** Honor plate of the AEC  
Awarded by the Spanish Association of Scientists

2016 **National Award** Best product for architecture  
Awarded at the XII Spanish Biennial of Architecture and Urbanism

2015 Technical Architecture Awards – First Prize

### Awards to buildings implementing Flexbrick®

**Sant Pau Research Institute** Barcelona (España) – Pich Architects  
2020 XVII Premios Cataluña Construcción – Winner

**Sant Pau Research Institute** Barcelona (España) – Pich Architects  
2019 MIPIM Awards – Finalist

**Hans Ist Building** Istanbul (Turquía) – Buun Moto  
2018 European Property Awards – Winner

**La Gota Cultural Center** Cáceres – Losada García  
2016 Archdaily Building of the year Award – Winner

**Saint Roc Car Park** Montpellier (Francia)  
2018 Germany Design Award – Winner  
2016 Tile of Spain Awards – Mention

**CDS House** Girona (España) – Juan Trias de Bes  
2016 Tile of Spain Awards – Finalist

**TR House** Barcelona (España) – PMMT  
2015 Tile of Spain Awards – Finalist

**Apartment building** Sevilla (España) – FAQ Arquitectura  
2017 Archilovers – Best Project 2017

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