



# ARCHITECTONIC BRONZE

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# 1. ARCHITECTONIC BRONZE

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## A. HISTORY, MISSION, CHARACTERISTICS

Bronze has been a crucial material throughout History. Its use is rooted in Prehistory, to the point of naming a particular period of time, such as the Bronze Age. This material is very appreciated in sculpture for its ductility and versatility and its properties and results are very well considered after those of gold and silver. Additionally, bronze provides a remarkable variety of finish with an indisputable high aesthetic quality.





Following different fusion procedures, bronze has been used as artistic material since the classical period of ancient Greece, and some of the most renowned works of art have been made with bronze, achieving a sublime link between both the sculptural and the architectonic field.

It is no coincidence that in Almería, enclave of the greatest Bronze civilization in Europe (Argaric culture in II and III millennium B.C.), a new interpretation of bronze has emerged from a group of researchers and artists at the University of Almería.



*Architectonic Bronze* is a new way to tackle the creation of architectonic spaces, where technology and art come together to achieve an innovative, singular and, above all, sublime result. In addition to the general characteristics of bronze such as beauty, durability, strength, elegance and solidity, *Architectonic Bronze* allows to create innovative architectonic spaces thanks to the creative component.

Apart from the technical potential of *Architectonic Bronze* and its incomparable aesthetic effects, the value added provided by its historical and artistic heritage must be considered.

In this sense, *Architectonic Bronze* implies a complete revision, opening new possibilities for preparation, presentation and implementation, and taking advantage of all its artistic wealth. It enables the creation of versatile architectonic spaces, unique and unrepeatable motifs and compositions, with rich golden finishes, which provide unparalleled brightness and light warmth. In this context, *Architectonic Bronze* rummages into the rich effects of the past, of Byzantine, Islamic, Moorish, Renaissance and Baroque inspiration to reinvent spaces and provide a renewed and exclusive artistic mark.

*Architectonic Bronze* can be part of the building structure and thus contributing to provide the quality and warmth necessary to the architectonic space.





There are paradigmatic examples of bronze application as a structural element in the history of architecture: two bronze pillars were found on porch of the Temple of Jerusalem at the period of King Salomón. Furthermore, the Germany Pavilion of Mies Van der Rohe of the Universal Exhibition of 1929 in Barcelona, and more recently, the renovation of Meridien Hotel by Neri and Hu, or the ceiling of the hall by Rafael Moneo in the Prado Museum. In all these cases, the use of bronze provided a symbolic component associated with its specific design.

This concept is what ARCHITECTONIC BRONZE wants to strengthen with its innovative proposal: transcending the pure material aspect and becoming a new way of making architecture.

## CHARACTERISTICS

*Architectonic Bronze's* innovation consists in bronze surface of high artistic value, which has the ability to adopt multiple forms and shapes.

Indeed, the delicate exquisiteness of bronze lightness and brightness (in fact it is the most important metal used in the metallurgy art, which also achieves suitable properties of hardness, malleability and resistance to atmospheric agents) along with the visual movement of its surface, gives the *Architectonic Bronze* artistic quality.

In addition, the versatility of its shape makes it ideal for the design of innovative architectonic spaces. The average holes along its surface are variable: according to the design may vary between 5 ÷ 15%.

*Architectonic Bronze* surface is made of solid bronze, therefore, its corrosion resistance and durability is unmatched. Any shape can be recreated depending on the design: polyhedral (tridimensional), flat, curved, corrugated...



## B. MANUFACTURING, SHIPPING, INSTALLATION AND ASSEMBLY

From the specifications of *Architectonic Bronze's* envelope Construction Project, the Architectonic Bronze enterprise in collaboration with the University of Almería manufactures the bronze pieces needed. These pieces, previously supervised and accepted, will be sent to the customers conveniently packed in wooden boxes prepared for transport by means of standardized containers.





*Architectonic Bronze* pieces will be shipped by a prestigious international logistics enterprise.

The installation and assembly will be carried out under supervision by the Construction Management in accordance with the specifications of the construction project elaborated by Ferrer Architects.

In order to facilitate transportation and placement at the point of destination, the bronze is manufactured in polygonal pieces of variable dimensions and shapes, depending on the singularities of each project and providing the necessary anchorage system.



## 2. INTERIORISM DESIGNS

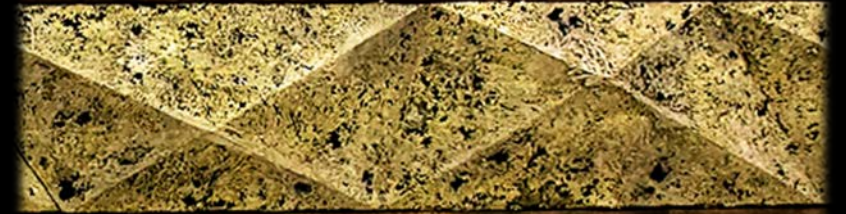
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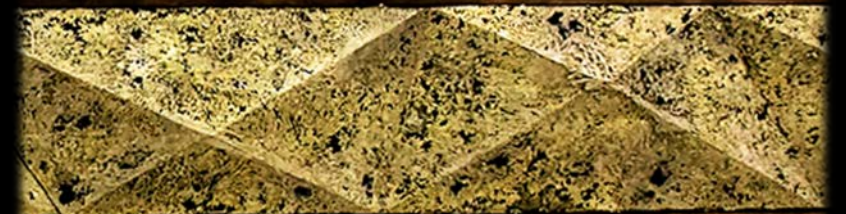
Truncated inverted  
pyramid-shaped at  
Neuroscience and  
Health Sciences Building  
at University of Almería.



Sculptural element combined with corten steel at the Scientific- Technical Building at University of Almería



Sculptural element Pyramid shaped in the Auditorium at Pythagoras Scientific and Technical Park Headquarters



### 3. BUILDING DESIGNS PROPOSAL

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#### A. LUXURY RESIDENTIAL DESIGNS

The residential designs are projects based on sustainability and energy efficiency criteria, and are equipped with the latest home automation technology.



The *Architectonic Bronze* application in facades, as a sculptural architectonic solution combined with other materials, provides the final result with an exceptional bright finish difficult to be achieved with any other material.

ARCHITECTONIC BRONZE proposes the facade covering in order to emphasize its impressive, elegant and luxurious aspect. Additionally, our *Architectonic Bronze* gives a touch of distinction which highlights this great house and differentiates it from other buildings in the area. It is provided with a solid concrete structure on which the different spaces and uses will be ideated and distributed as required by the client.



According to the client requirements, and depending on whether we apply our bronze in exterior facades or in interior spaces, we will achieve varying degrees of sobriety or brightness on the whole, producing different sensations in the observer.

More Information in [www.architectonicbronze.com](http://www.architectonicbronze.com)

## B. PYRAMID

PYRAMID's proportions are similar to those in the Great Pyramid of Giza but in a different size. PYRAMID's height is 65m and each base side is 100m long. This mega-building includes 11 floors, with a 10,000 m<sup>2</sup> ground floor.



Regarding the appearance, the movement of Architectonic Bronze envelope is what confers *PYRAMID*'s global uniqueness. Indeed, this possibility of movement makes possible this building to become unique in the world changing instantaneously its appearance at owner's will.





*PYRAMID's* exterior image can be modified, making possible to transform its facades, instantly, and in a real-time fully interactive way. The opening or closing of the facade elements can be powered by means of an automated system connected to the movable panels of the Architectonic Bronze facade, and controlled from the main instrument panel.

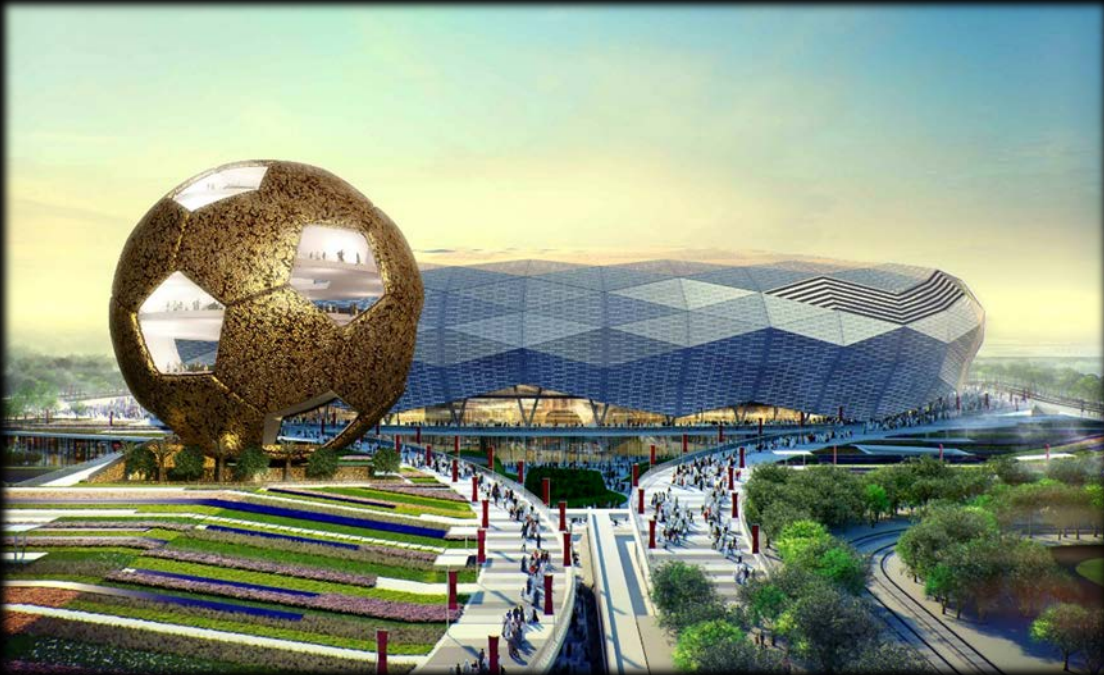
Thus, this system makes possible to control the image of the building in an infinite number of possibilities, and even fully customize the facades with some specific images or shapes determined by the company or the customer.



More Information in [www.architectonicbronze.com](http://www.architectonicbronze.com)

## C. THE GOLDEN MEGAFOOTBALL BALL FIFA WORLD CUP QATAR 2022

This mega monument has been expressly designed for the exceptional event to be held during the next Football World Championship Qatar-2022. The Architectonic Bronze Mega Football Ball is the ideal complement to the amazing stadiums and facilities that will astonish the world.



There is no better place than Qatar, a global promoter of elite tourism, to host the world's largest football ball, a symbol of the common space without frontiers that the football phenomenon represents, where millions of people meet and communicate around the planet.

The Mega Football Ball, in addition to being an exceptional invitation for world tourism, provides, from an aesthetic point of view, a visual changing image depending upon lighting conditions.



Functionally, its impressive interior space is ideal for the location of the most diverse activities. It may well become, once the event ended, the FIFA WORLD CUP QATAR 2022 MEMORIAL HALL, an exceptional must-see tourist attraction.

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**AB**  
architectonic  
**BRONZE**



UNIVERSITY OF ALMERÍA

ARCHITECTONIC BRONZE

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