

# The florence dome: a story that still has not been told

**Manuel Fortea, Domingo García Pozuelo**

**Abstract** This lecture is a reflexion about the technical advance that meant the construction of the Dome of Santa Maria del Fiore in Florence, making a compared study of this fabulous construction with other peculiar domes of the history of architecture such as The Pantheon of Rome, domes constructed without falsework by Byzantine people, or the delicate ornamented domes of the Mosque of Cordova, paying special attention to the technical necessary aspects in its construction that are different from any other building made before.

The audacity of Brunelleschi is the reason of fundamental technical advances; two of them are the following ones: first, to build a dome without falsework; second, a complex structural system of upright with cavity wall. Those subjects will be widely documented to try to search the precedents that could make Brunelleschi find such an extraordinary solution for the most beautiful and well known dome of the world.

**Keywords:** dome, florence, rib.