

## DECODING GEOMETRIC PROPERTIES OF MUQARNAS BASED ON ARCHITECTURAL SCROLL

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### ABSTRACT

*Understanding the mystery of muqarnas geometry and its complexity needs to have knowledge about the designing thought and designing methods of these geometrical decorative elements. This topic tries to reveal the architectural scrolls, geometrical properties of muqarnas, what we should know and how to research technologies of creation of the muqarnases. Furthermore, in order to understand the structure of muqarnas, we going to study muqarnas structure in both two-dimensional plane projection which is a substitute for the muqarnas design, and three-dimensional muqarnas compositions and the way that are constructed as a volume. In this regard, all information is based on scroll and knowledge of traditional masters of Uzbekistan, Iran, Turkey, and so on.*

**KEYWORDS:** *Muqarnas, Karbandi, Rasmi bandi, Yazdi bandi, Kaseh sazi, stalactite, shamseh, toranj, taseh, parak, shaparak, tee, espar, takhts, scroll.*

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