

Dimensions Reflected

Deltahedral Column Capitals

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Concave polyhedra of the second sort are a common name for polyhedra whose lateral surface is deltahedral, composed of a double row of equilateral triangles arranged in a 2π polar array over a regular polygonal base. Using representatives with an octagonal base, which have the greatest potential for modular fitting, we assemble complex shapes that can be applied as design solutions to architectural details. The column capitals are formed by a combination of the lateral deltahedral surfaces of the flower antiprisms (FA-II-8m), which serve as the backbone of the whole composition, concave antiprisms (CA-II-8M) and concave pyramids (CP-II-8m) of the second sort. By different arrangement of these elements, as well as by using different materials and colors, various ornate solutions can be obtained. Some of them are presented as suggested solutions.

By combining different techniques of finishing the triangular faces of these deltahedral surfaces, whether in different materials, colors or in patterns obtained by face subdivisions, various decorative effects can be achieved, which can further enrich the appearance of both the capitals and the columns themselves.

