Special Issue

Mechanical Characterization of Gypsum Composites

Message from the Guest Editors

Gypsum is a traditional material used as a building material, throughout the world, due to its great properties, such as good hydrothermal behavior and resistance to fire. Although gypsum has been used in construction since the Neolithic era, it was not until the end of the 20th century that researches started to work with gypsum composites as materials capable of responding to new needs in buildings. These "second generation" of plasters are produced by making additions to the gypsum, such additions include fibers, to reduce the fragility of the material, or chemical additives, to be able to apply the plaster with mechanical devices (tools).This third generation of gypsums is lighter and has better thermal performance, by incorporating cellular solids into their matrix or gypsums designed with circular economy criteria, using the gypsum matrix as a digester of waste from industry or agriculture. In addition, regenerative construction is currently enabling the development of new gypsum compounds, which aim to improve the health and well-being of building users.

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