

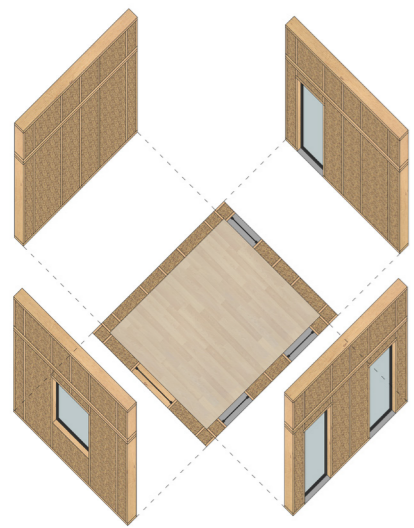
BAHARX: The straw-bale ecological house, is a project aiming towards evaluating the paradigms surrounding developing bio-constructed projects, centering the work around straw building, as well as exposing the knowledge needed to fully understand straw as a construction material.

The latter point achieved by an in-depth dive into the history, and present developments promoted in the field of straw construction, and the former, by the means of analyzing a wholesome study on all areas related to the design of a building project.

From a theoretical point of view, straw has proven along the years it is a material worth utilizing in the construction industry, and, with the proper care and preparation, acts as a suitable insulator, and has proven to be structurally adept, even in fire conditions.

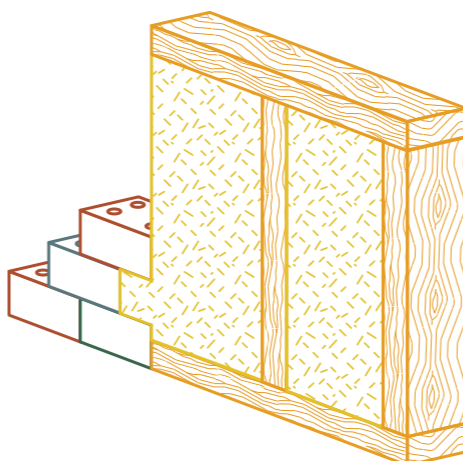


Straw Bale Simonton House, Purdum Nebraska, 1908

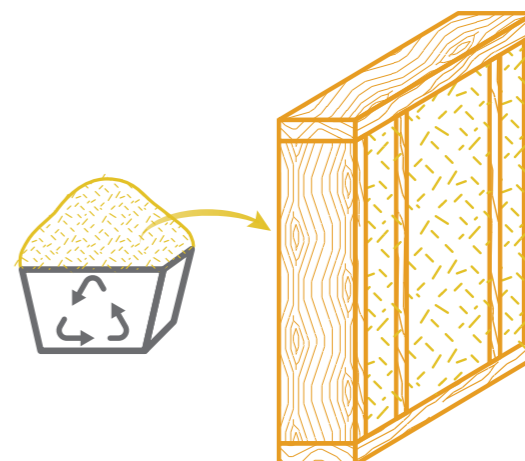


As for what regards the design of a building, the transposable properties, and studies by which straw was measured during the project, a net positive building was achieved, as well as a transposable construction system, in the form of construction modules.

Meaning that these constructive elements proved efficient given the specifics related to the suburban/rural surroundings, as well as adept to the European frame of codes and regulations towards new built environment.



Modular



Up-Cycling



Mauricio Senior Ramírez
Ecem Taşkın

In conclusion, the premise of straw construction has been revealing, in terms of displaying an inexpensive and readily available material as one to be adventurous on the architectural field, aiding in the development of green projects. The material, and design, demonstrated to fulfill the requirements of the norm, as well as various architectural and sustainability goals, which are displayed in the present work, and lay down architectural, constructive, and engineering wholesome solutions towards achieving sustainable living.

