

Prefabricated houses surrounded by a non traditional origami outer framework encased by a Mylar and solar fabric tent create a community that speaks of temporary beauty with modern comfort for its inhabitants while also providing a green, rapidly deployed community with the flexibility to accommodate unit size, density and site location.

The prefabricated housing units are easily unfolded and folded while providing unit flexibility ranging from a single dweller to a multi-person family home by stacking and adding the units. Built from SIP panels the units are cost efficient and sustainability conscience. Wet areas connections are built into the units allowing for sustainable utilities to be added and upgraded. At the same time, the enclosed prefabricated housing units offer comfort and the security of any apartment building. Lower units will provide easy access for elderly and special needs inhabitants.

The origami framework adds a sculptural quality that is derived from traditional origami but applied in a non-traditional way. The framework, which also folds and unfolds like the prefabricated housing units, is key for rapid deployment. The open origami framework allows for flexible arrangement and stacking of units. Accessibility to units will be a part of the outer framework. The origami framework allows for more site flexibility by its ability to be shaped and reshaped for various site surfaces, folds of the origami can be tightened for more strength to support wet areas, as well as to adjust to the prefabricated housing for overall site spacing. The framework also allows for water and waste tanks to slid easily onto prefab units, if sewer and water cannot be accessed.

The Mylar tent encasing the framework adds an extra level of protection from external elements, wind, rain, snow and sun. The tent skin also gives a feeling of security. The solar fabric combined with the Mylar on the roof of the framework gives the units an increased percentage of self-sustainability.

Bringing together prefabricated housing units with an outer origami framework encased by the Mylar and solar fabric tent provides a combination of comfortable, temporary living that can be deployed rapidly to ensure a community can keep living and thriving together.