



POLITECNICO
DI TORINO

Honors thesis

COURSE OF ARCHITECTURE (CONSTRUCTION AND
CITY)

Abstract

Emergency-oriented comfort

Tutor

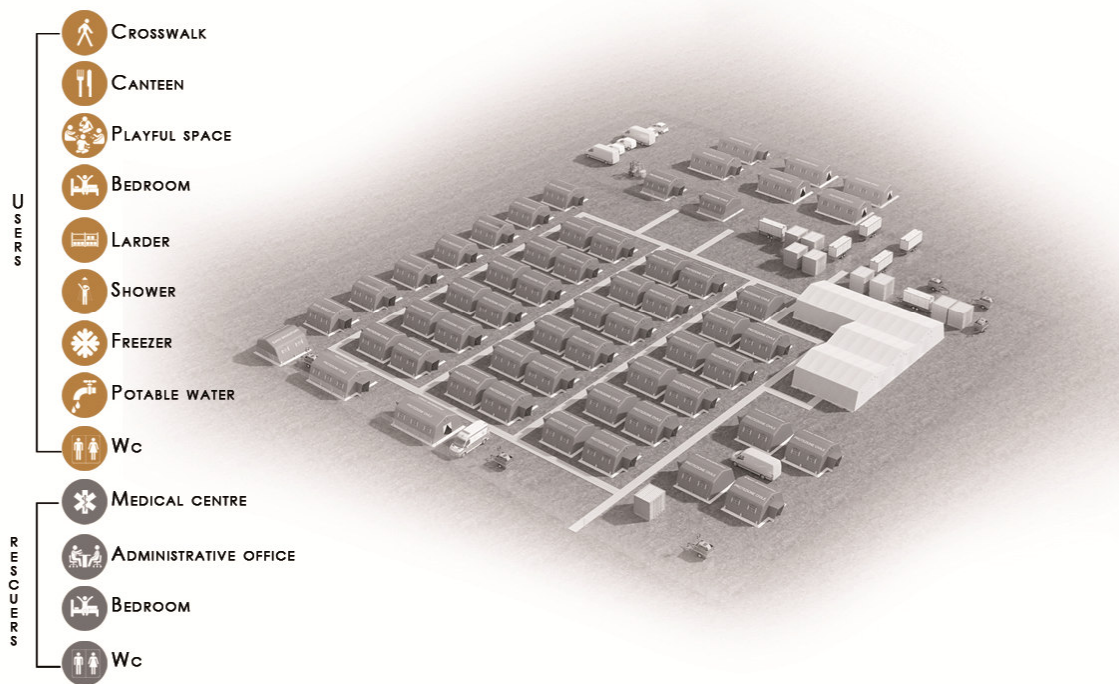
Marco Vaudetti
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by

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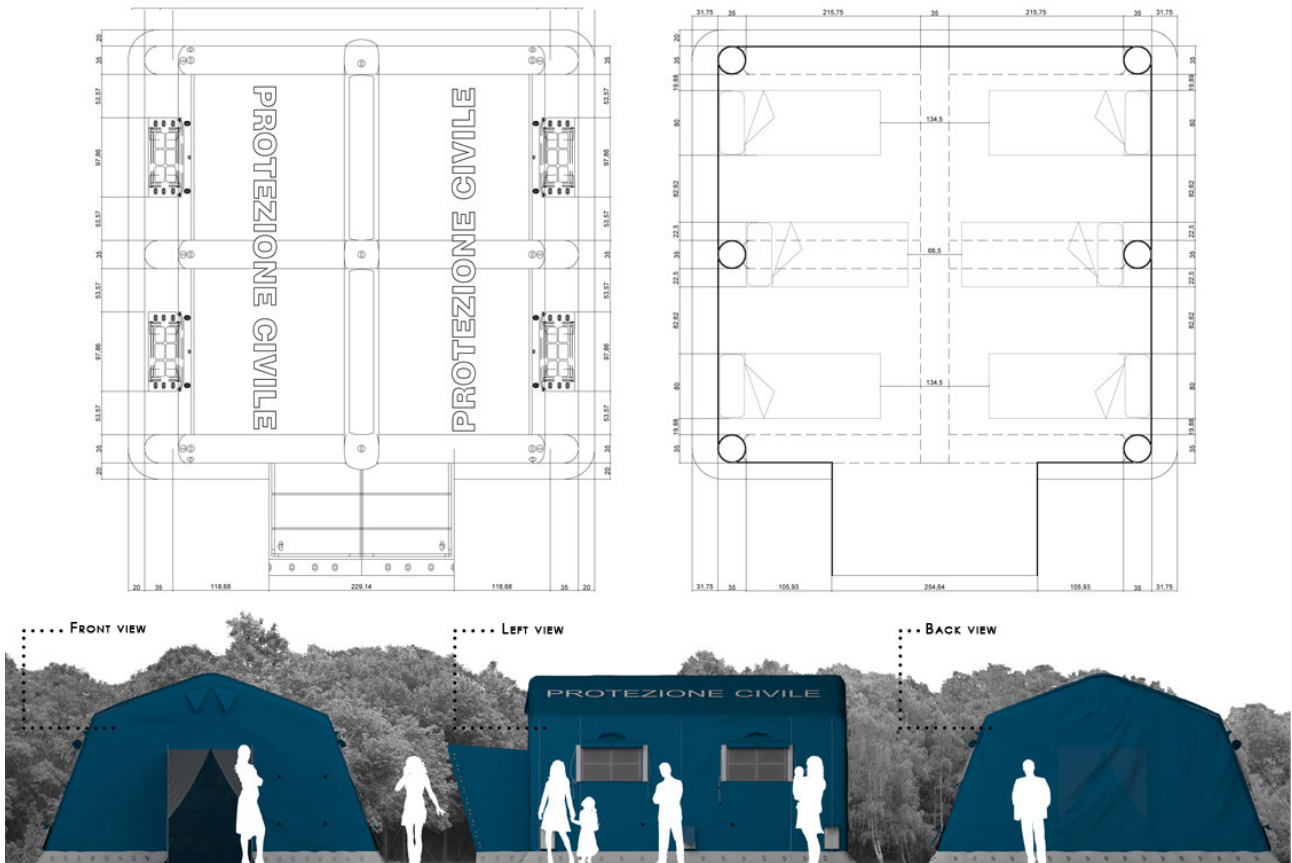
February 2015

The thesis topic is the issue of “living during emergency”: a situation that stands between the temporariness of exceptional moments and the require of “normal” living condition Therefore designing in emergency situation becomes a challenge not just to guarantee an effective shelter in precast structures but to offer spatial, psychophysical and functional conditions that can satisfy users. Starting from here, this thesis analyzes current procedures and methodologies to develop specific solutions for the inner habitat of the most common shelter: the tent. The question at issue is wether or not is possible to add comfort and architectural quality to emergency shelter typologies. Talking with “Dipartimento di Protezione Civile della Regione Piemonte” about managing emergency accommodations the biggest difficulty identified is cohabitation inside the tent. Volunteers and operators try to distribute people by family unit but it is not always possible due to the large number of people. This leads users to live in forced conditions where psychophysic weakness is boost by not been able to have your own spaces and where material loss becomes identity loss. This is the situation in which the designing proposal takes place to give a product that can be assemble directly on refugee camp and that can support the growing standard of living conditions.



Plan refugee camp

The authority of “Protezione Civile” is equipped with pneumatic tent module to assist people. The inner space is an open space with a front entrance and six windows for lightning and air changing. The maximum capacity is six people and usually all tents are totally occupied in order to optimize time and equipment.



Plan and front of Emergency tent

The Project

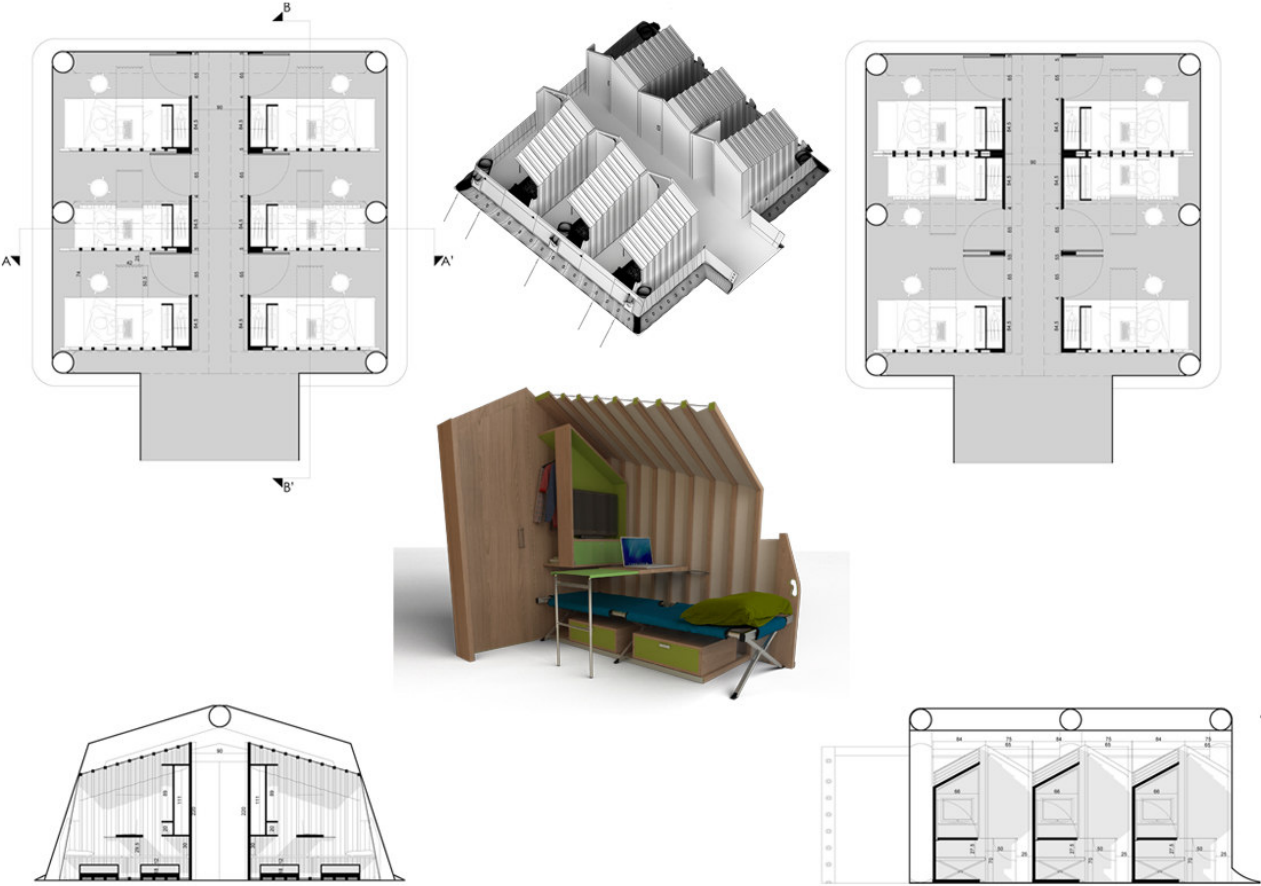
The proposal aims to give a domestic environment back to people highlighting the aspects of living at home: comfort, safety and privacy. The module respects the initial position of beds decided by “Protezione Civile” and it does not modify but it organizes space inside the tent. The standard module consists in a recess on a “L” shaped wall that defines a single bed space. This module can be assembled with others to enlarge the space up to four people.

The functional principle refers to built-in bed criteria. In the module there are several elements that increase comfort inside the tent:

- wardrobe/changing room
- PC and support table
- Chest of drawers
- TV support
- locker for personal effects

The module structure is composed by a “C” shaped rigid wall and by a folding partition: it is meant to reduce the package to a size that can minimize the amount of space during

transportation and storage. It can be moved and built by two people or by using a hand truck.



Project Drawing

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