

EIN-FACH - VIEL-FACH

INDIVIDUALITY IN SERIES

assignment architecture competition **client** ARGE MODULARER HOLZ-BAU **services** Development of building-modules for residential buildings in timber frame construction **status** idea, 2022 **team** Oliver Seidel, Felix Rebers, Nathalie Wolff, Hanna Sentis, Nele Tramp, Fer Garcia, Daniel Lux, Sophie Kalwa **cooperation** Drewes+Speth

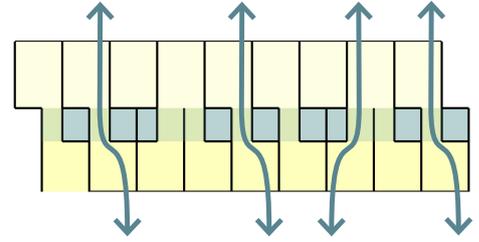
How to allow individuality in serial pre-production with modular timber construction to respond to housing goals in a social, ecological and economic way?

Within the framework of the competition, this question was investigated. The result: a modular and project-independent configurable floor plan system for multi-storey residential buildings in timber construction. The focus was on the possibilities of serial, cost-effective and environmentally compatible construction with high spatial quality.

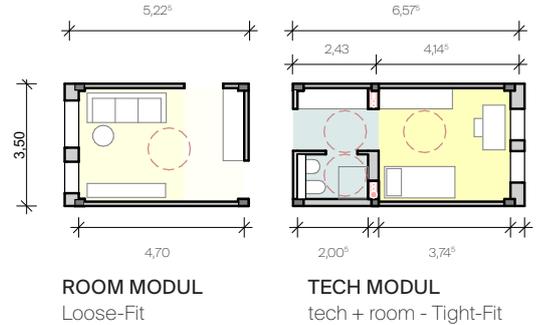
A simple basic structure forms the basis for the development of the versatile room modules. The general concept provides for a division into three spatial and functional layers, with the middle layer forming the link between the well exposed lounge layers and at the same time acting as the supplying core. To increase the flexibility, versatility and quality of the floor plan configurations, the modules are shifted in relation to each other. This creates flowing, two-sidedly lit rooms or apartments and versatile configuration options. When dimensioning the modules, requirements for accessibility, eligibility and economical logistics as well as prefabrication were taken into account, resulting in the dimensions of the room and technology module.

The simple basic structure and dimensioning form the basis for the development of the room modules and the modular and expandable floor plan configurations. The floor plan types can be used equally in different building types and development forms and can be flexibly adapted to different urban contexts. Furthermore, the structure allows the adaptation to differentiated user groups - from standard apartments, to living forms such as cluster apartments as contemporary shared apartments or apartments for grandparents or teenage children.

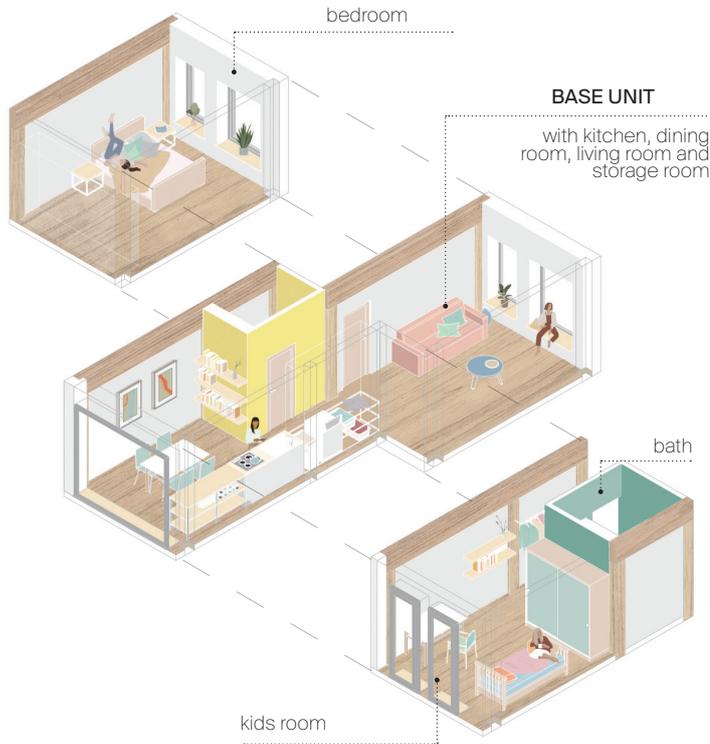
In order to be able to give the buildings a differentiated exterior and further increase the living quality of the apartments, the system provides for additional add-on modules. These are arranged as an additional independent layer in front of the facade and offer a wide variety of design and usage options.



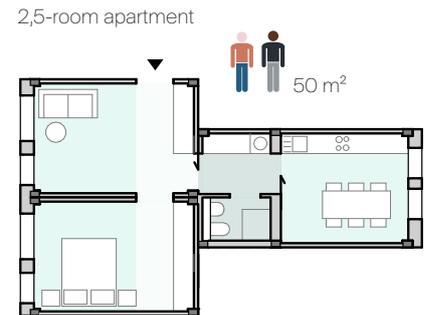
Three layers: Floor plan quality with simple methods



room modul + tech modul = base unit



Base unit and expandability



Exemplary selection of floor plan configurations



ADD-ON MODULE



winter garden



large balcony



pergola



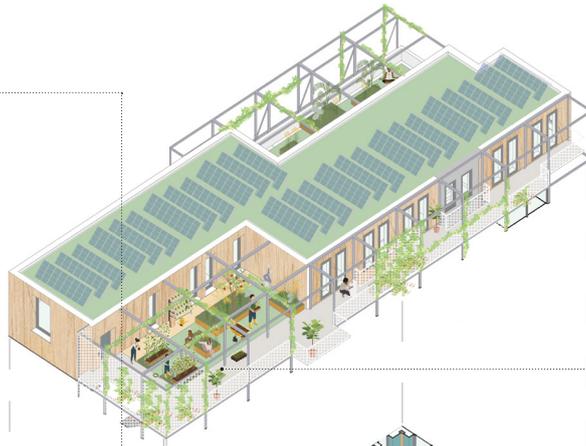
planter box



planter box and vertical planting



small balcony



COMMUNITY GARDENING



CO-LIVING



PLAY ROOM

GENERATION MEETING PLACE



SALES ROOM

CAFÉ



BIKE WORKSHOP

CO - WORKING



DISPOSAL

CRAFTY SPACE



BICYCLE PARKING



The show house: Many-fold diverse

creating better places. | **cityförster**