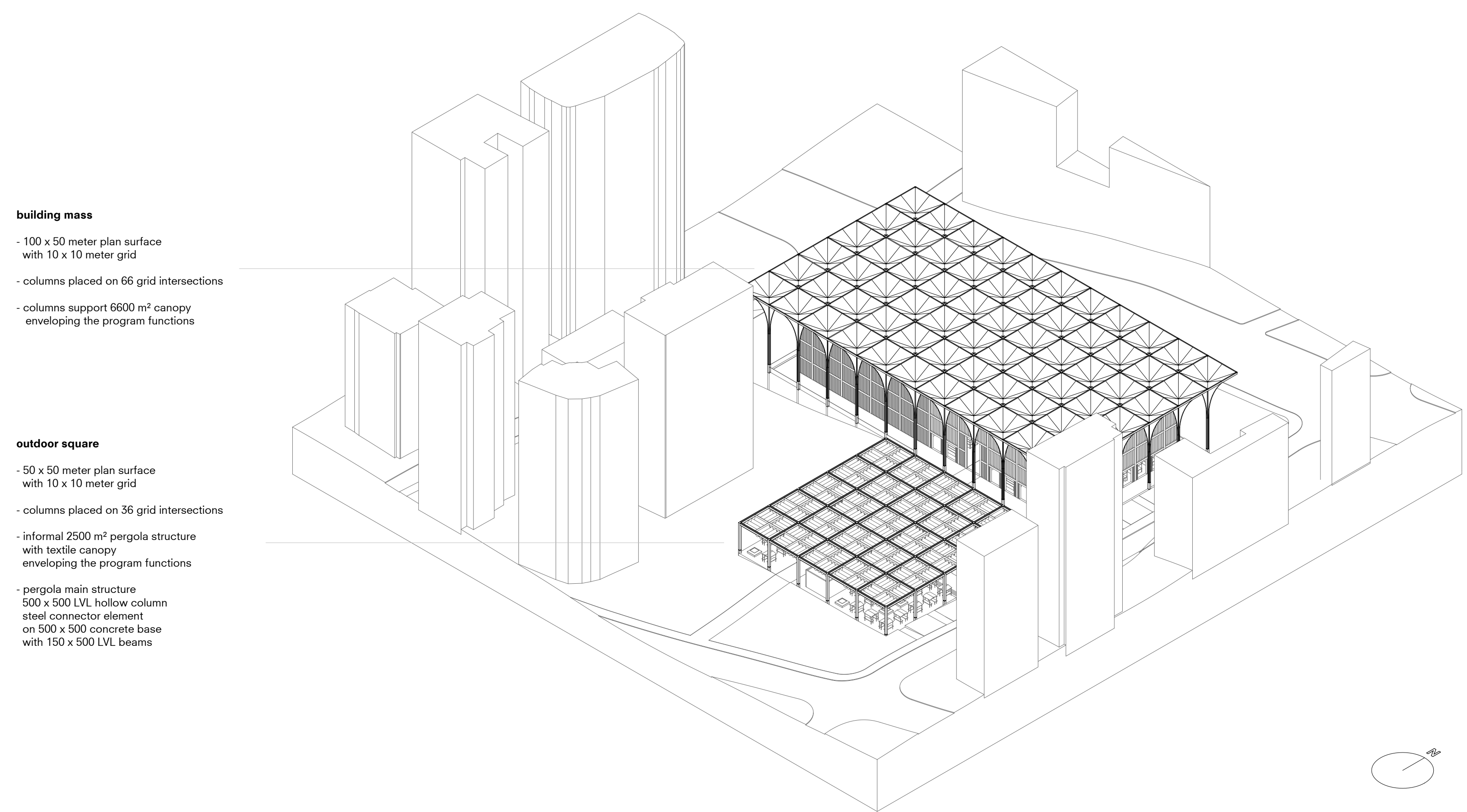


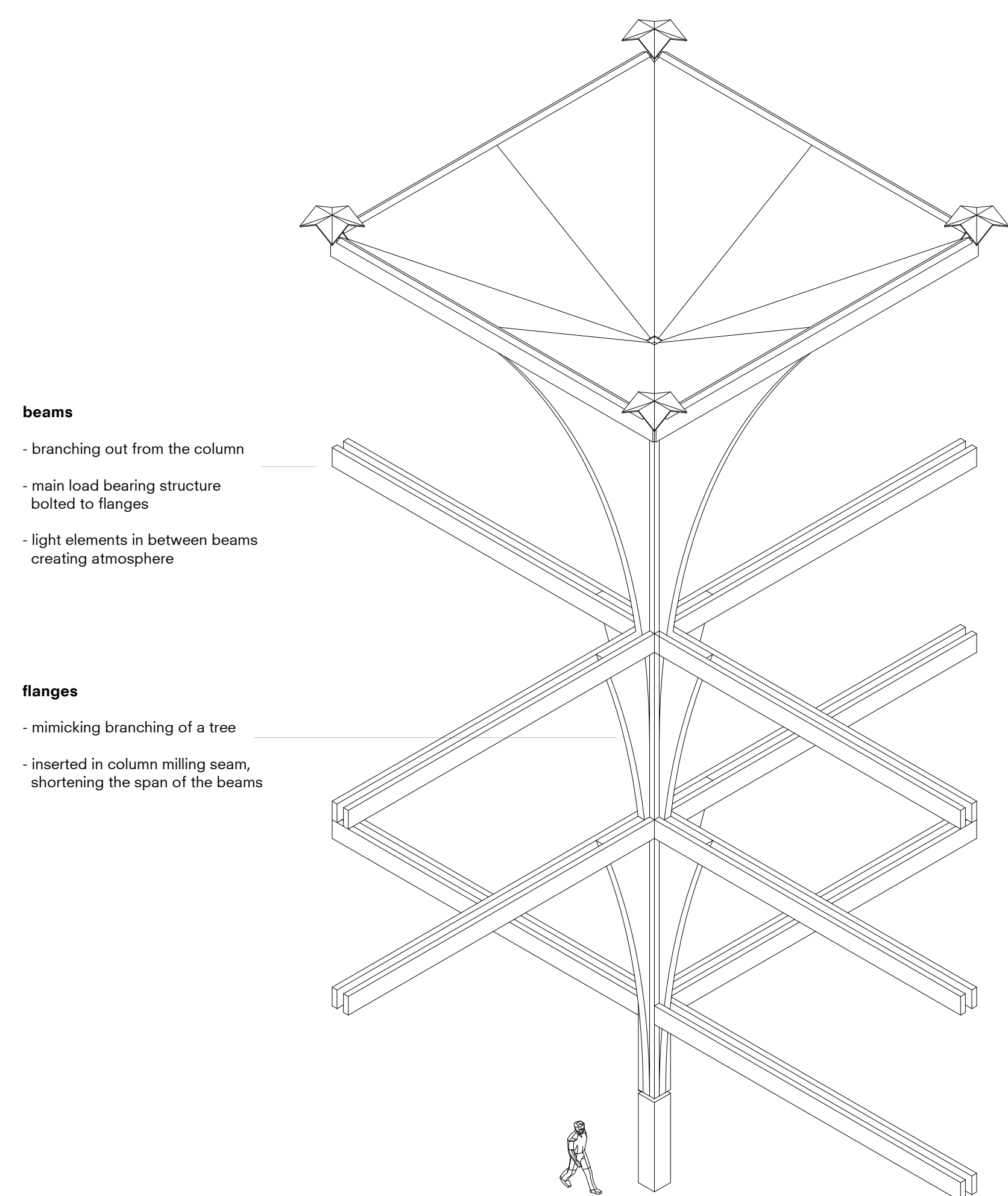
# MAR ELIAS CROP MARKET

## the column - climate and construction

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Complex Projects Beirut



DESIGN  
axonometry



**chalice canopy 10 x 10 m**

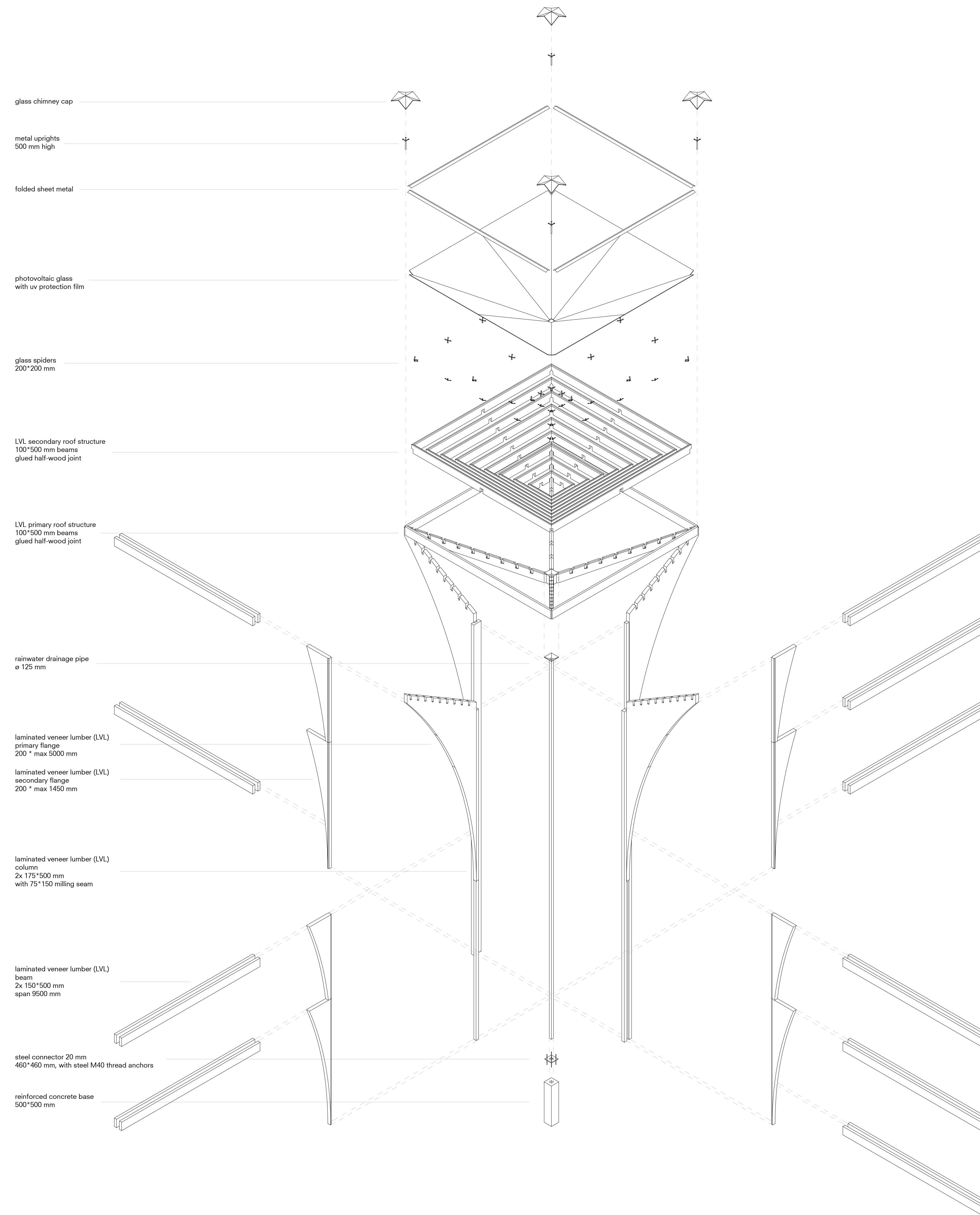
- collecting rainwater 750 mm/year
- collecting solar energy 300 sunny days per year 8-8 hours of sun a day
- ventilation chimneys natural ventilation in market hall

**column 500 x 500 mm**

- laminated veneer lumber (LVL) pre-fabricated elements
- hollow core containing water drain pipe electricity cables
- column flanges connect to other columns forming a rigid portal

**base 500 x 500 mm**

- pre-cast concrete element with hollow core for water drain pipe
- adding human scale to the structure



CONSTRUCTION ELEMENTS  
typical column + main construction

COLUMN DESIGN  
typical column

EXPLODED AXONOMETRY  
all construction elements