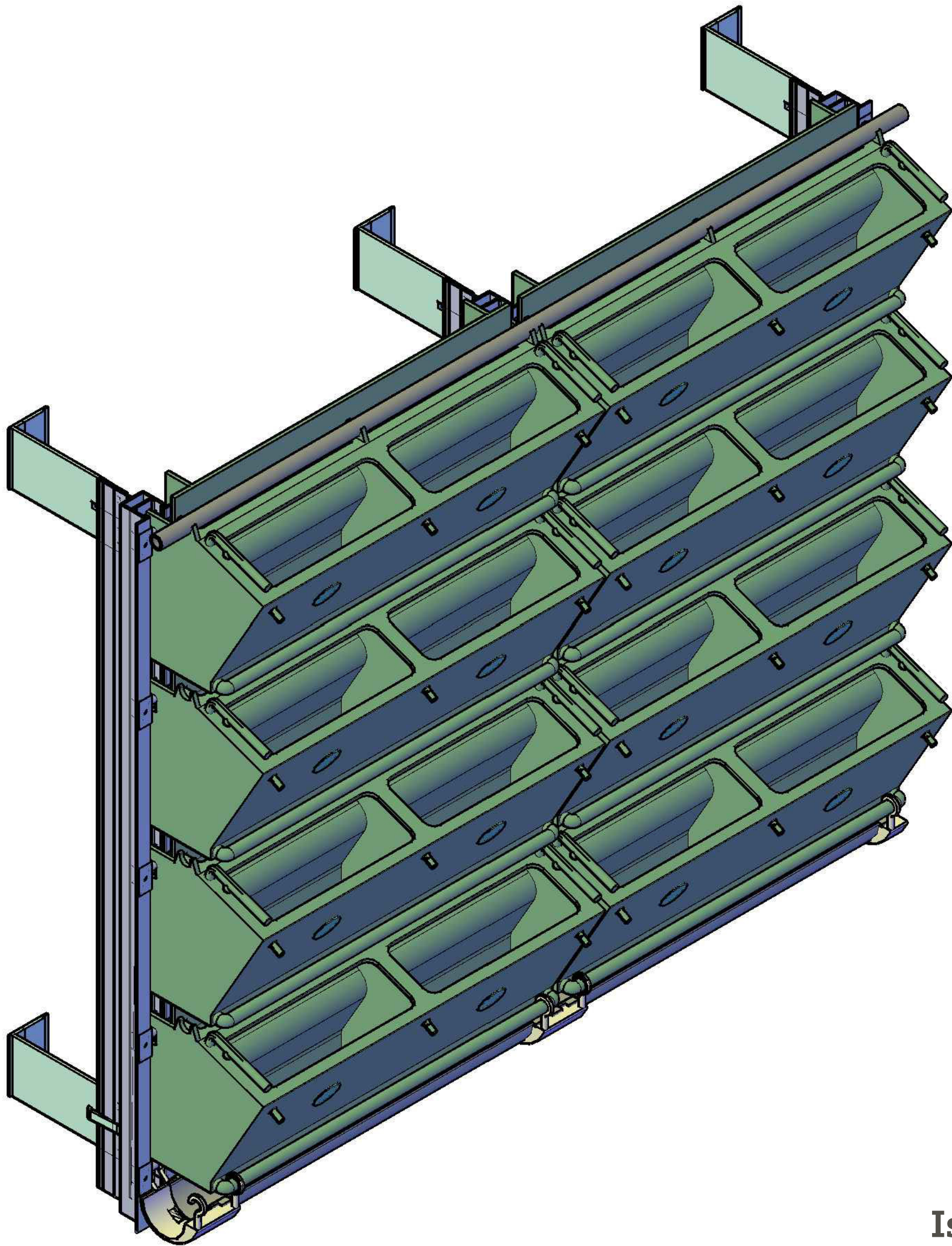


Plug 'n Plant system

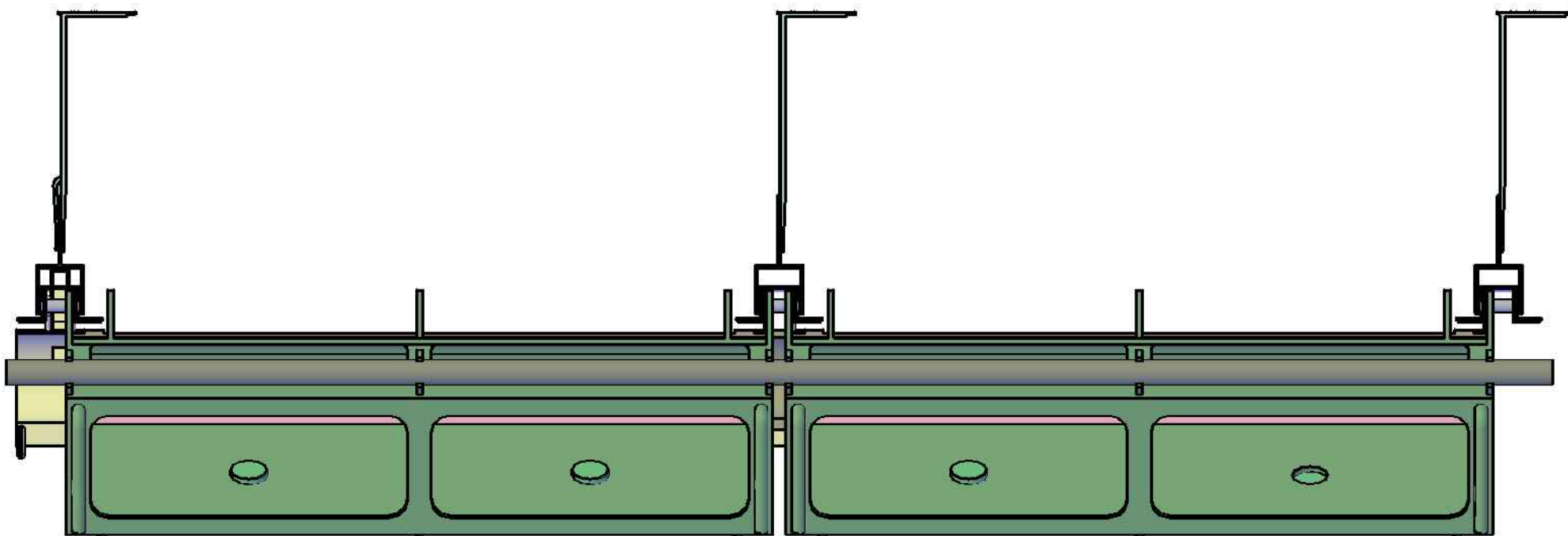
Joey Wagemans
4076354



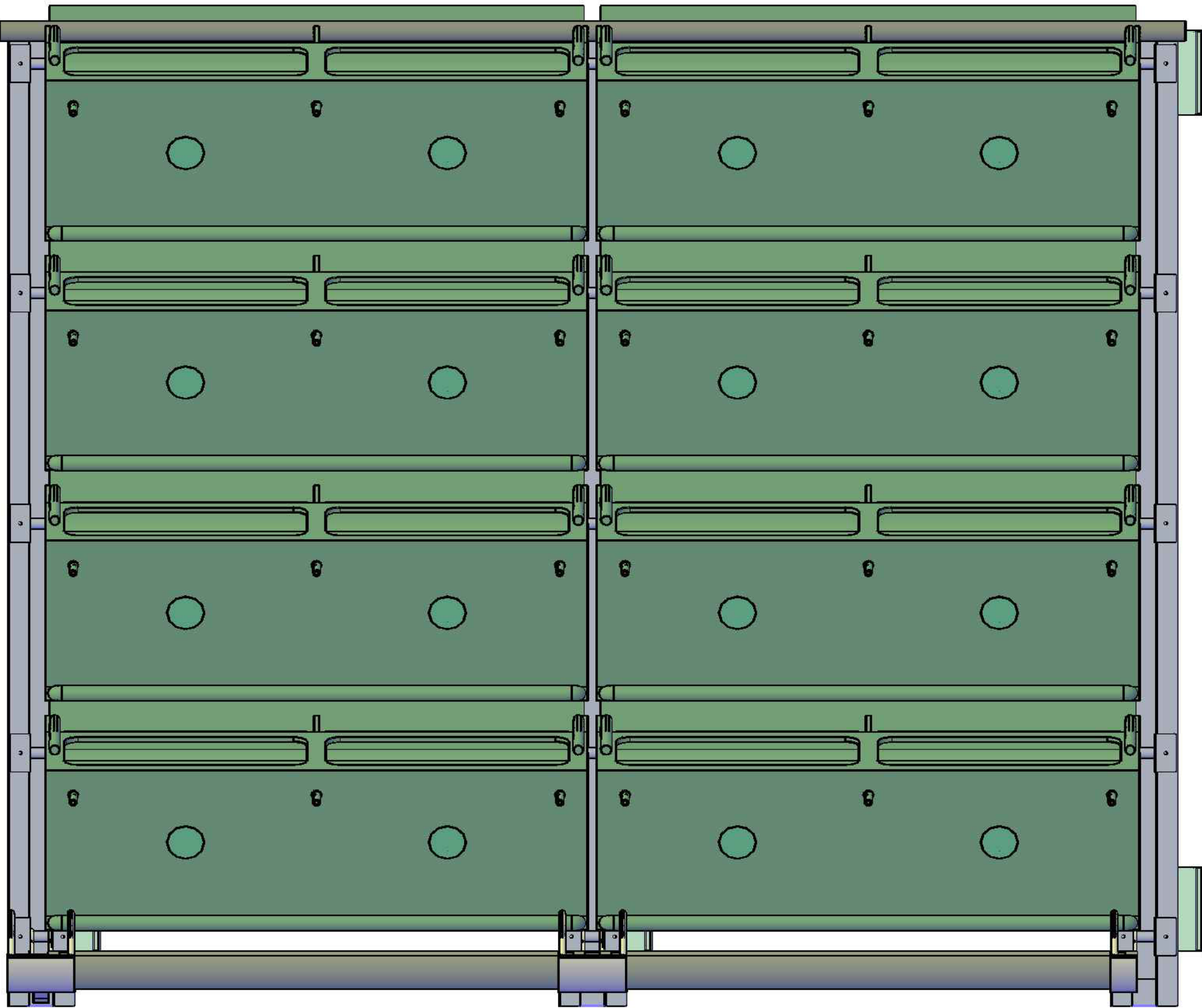
Isometric view



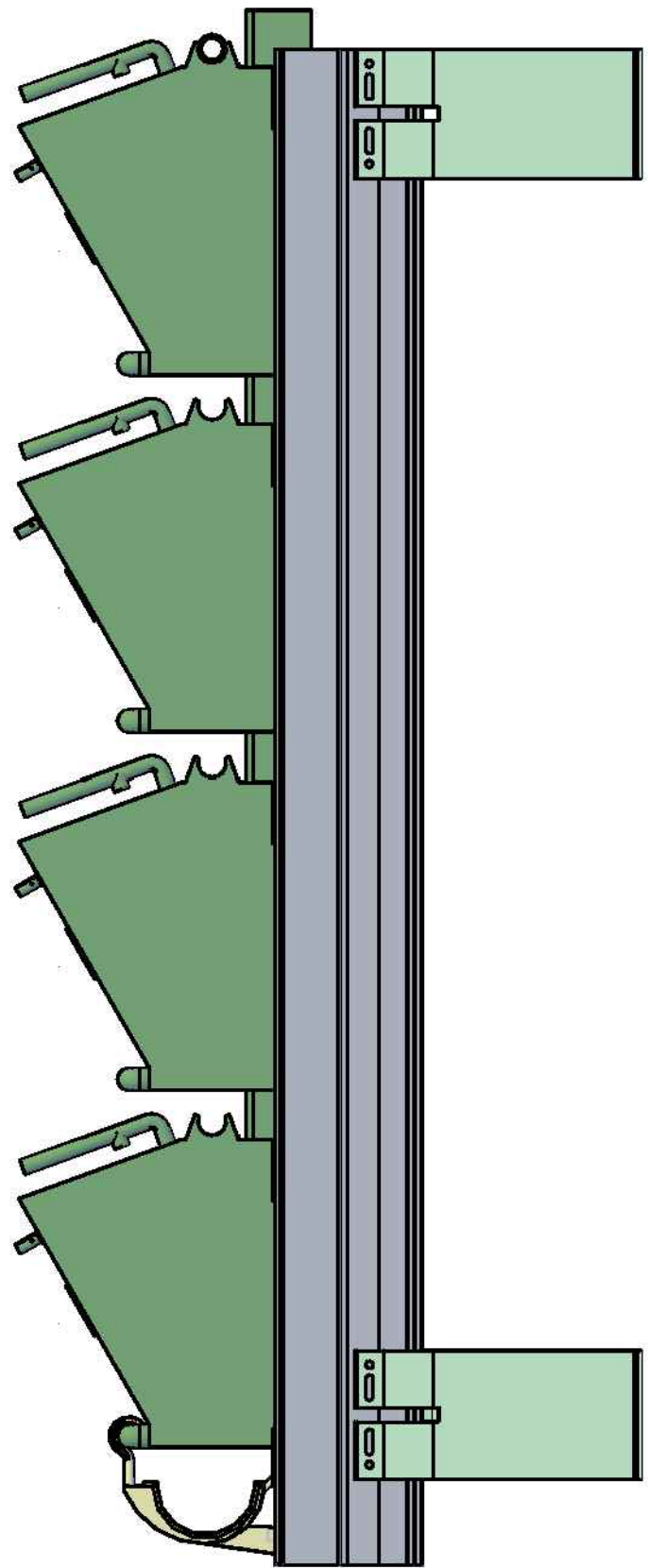
Visualization of system on Europoint -complex



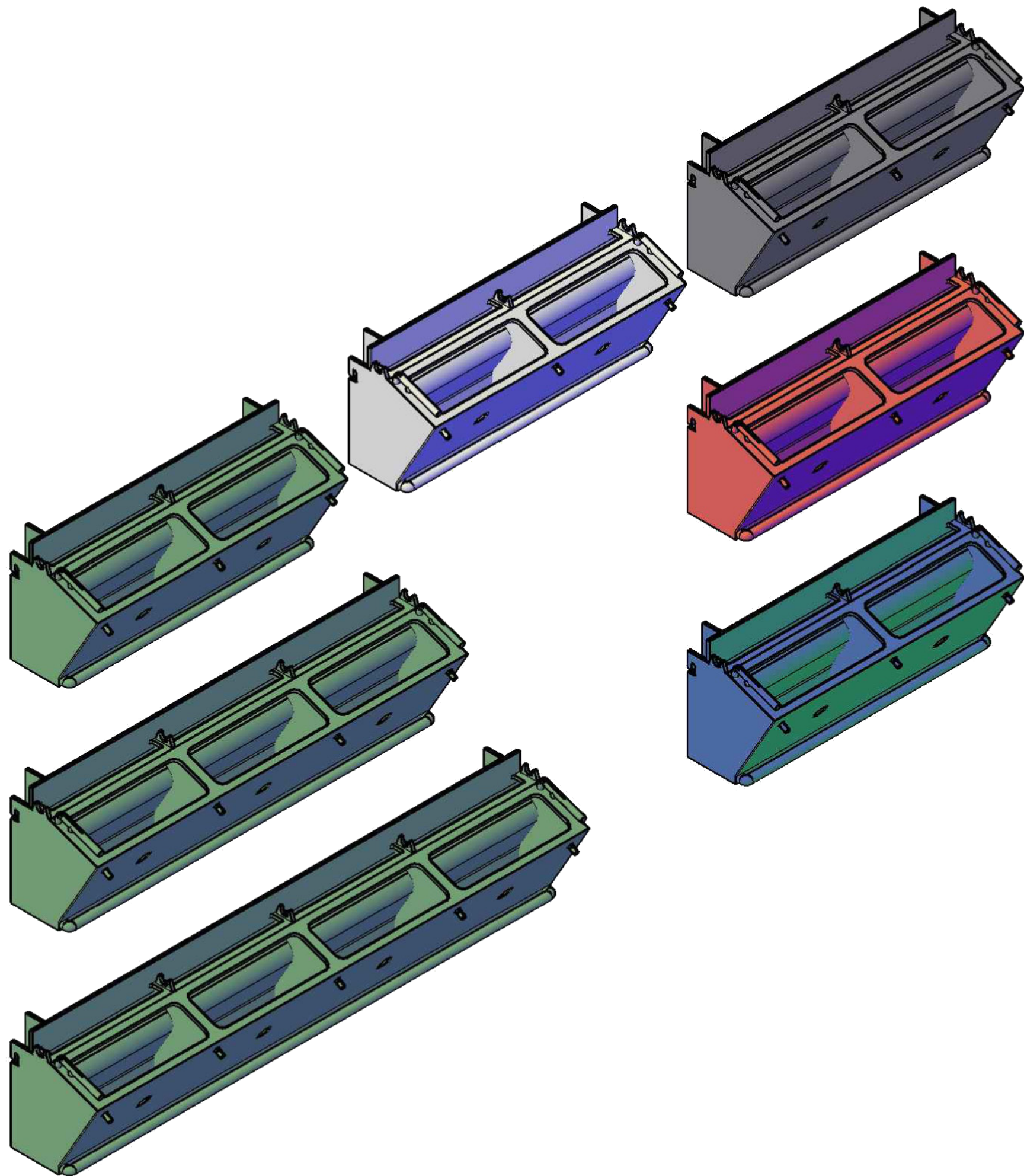
Top view



Front view

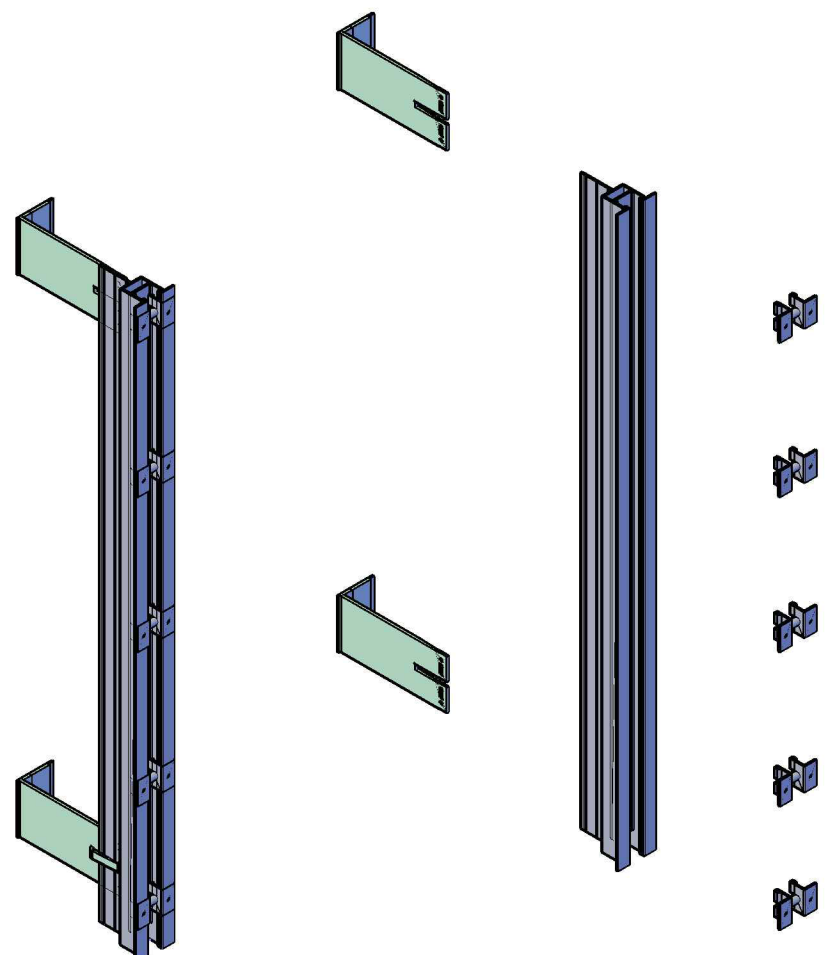


Side view

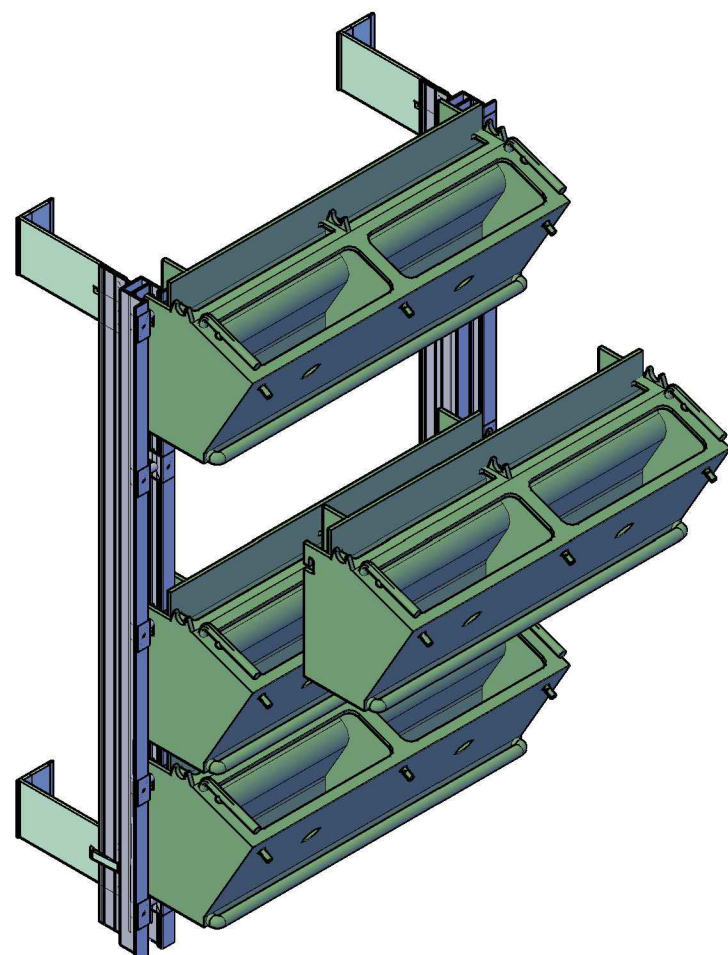


Different sizes and colours

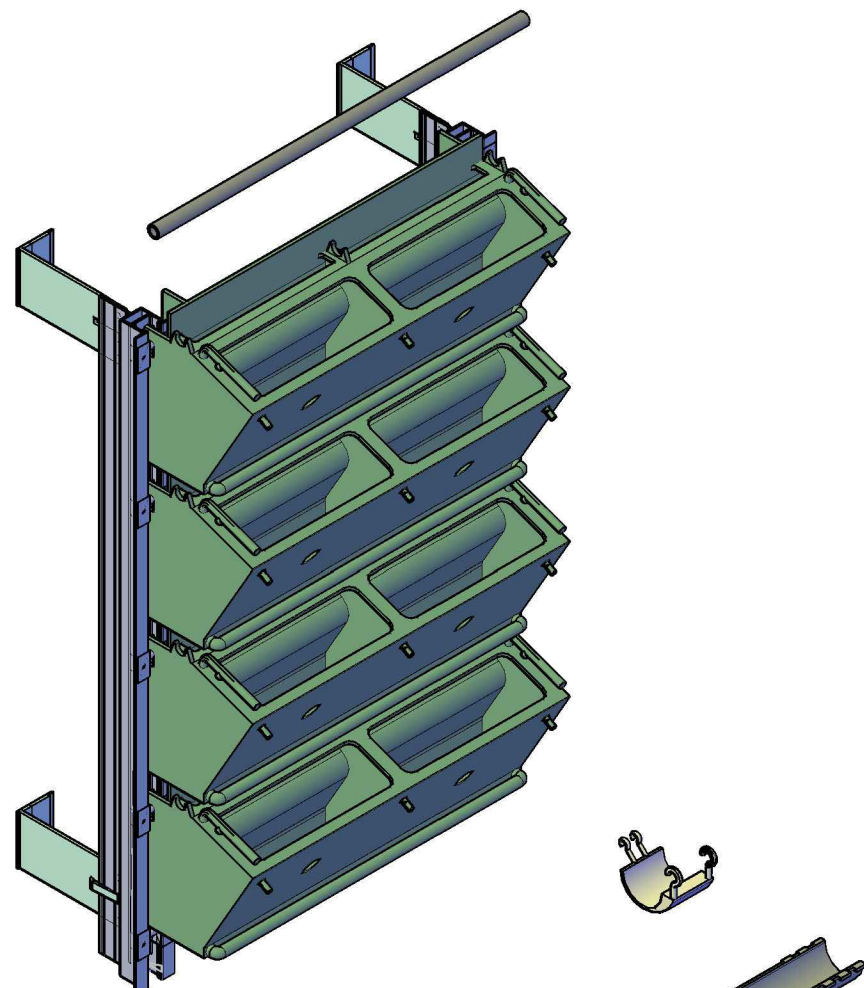
Building process



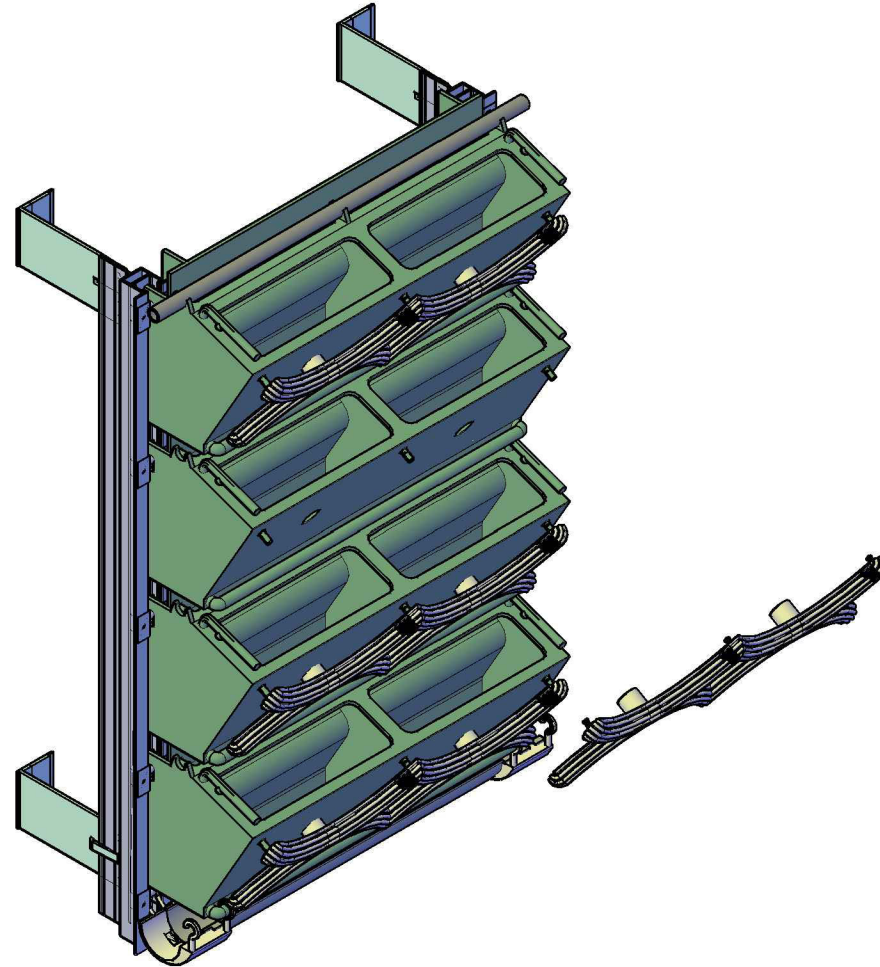
Step 1



Step 2

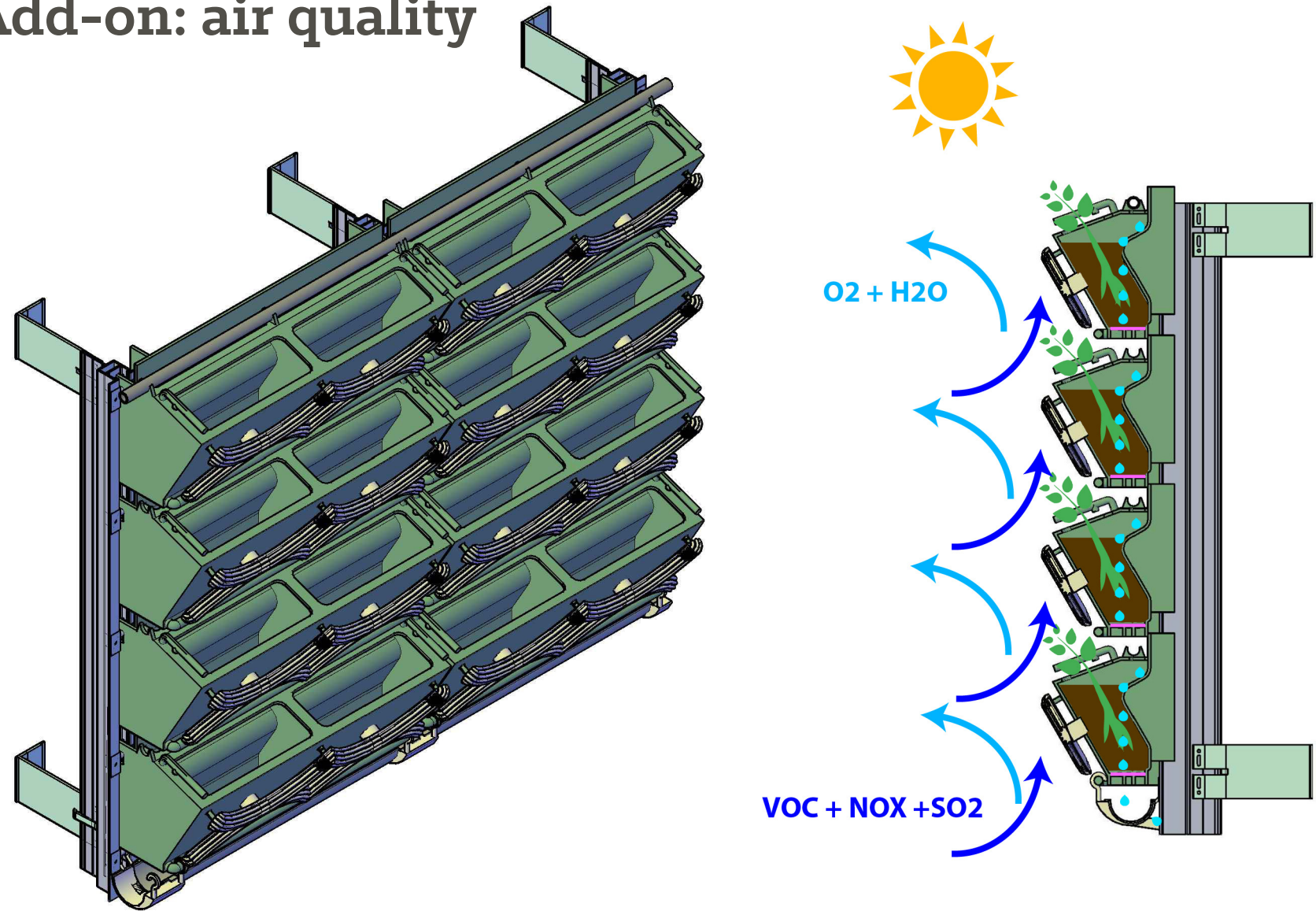


Step 3



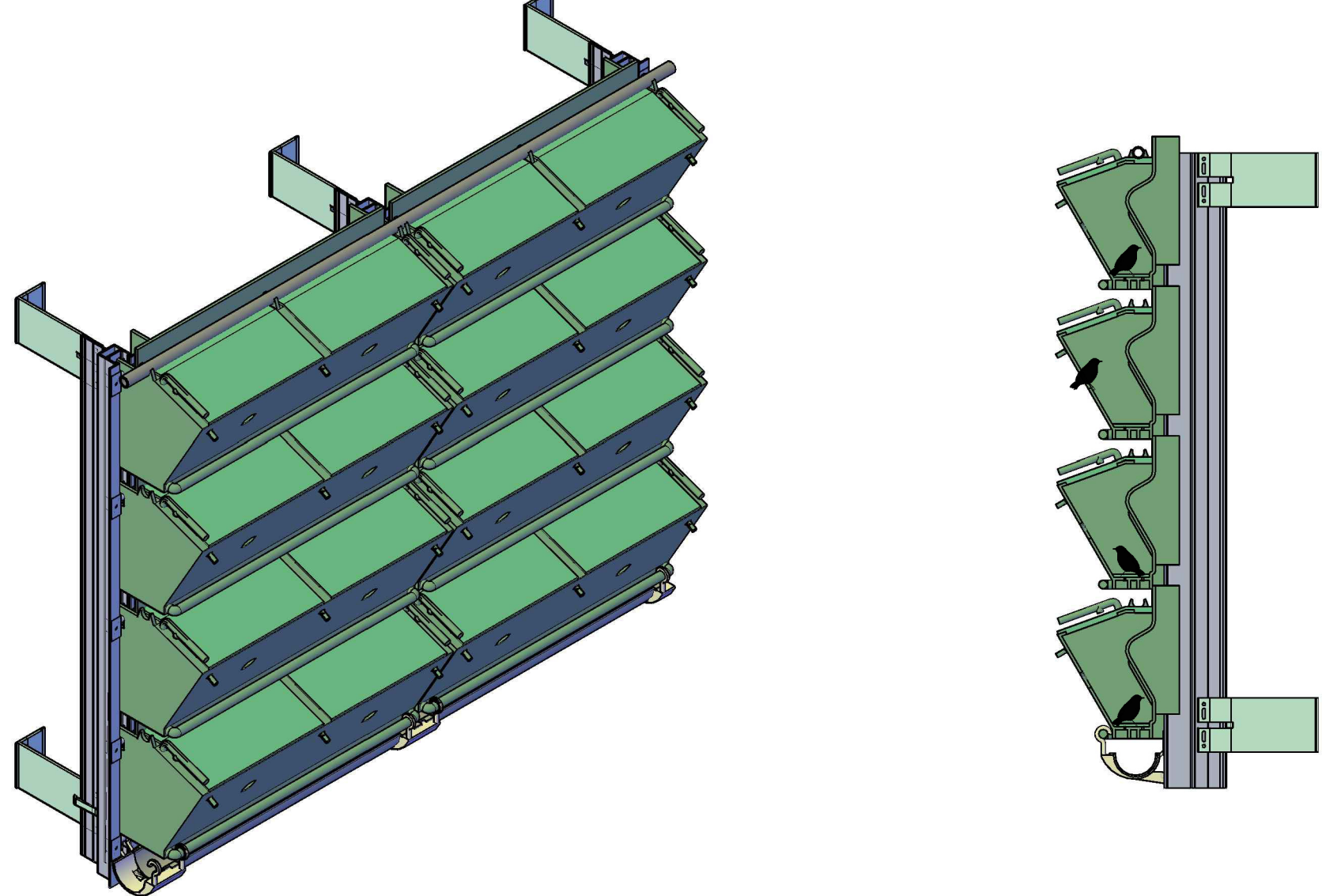
Step 4

Add-on: air quality



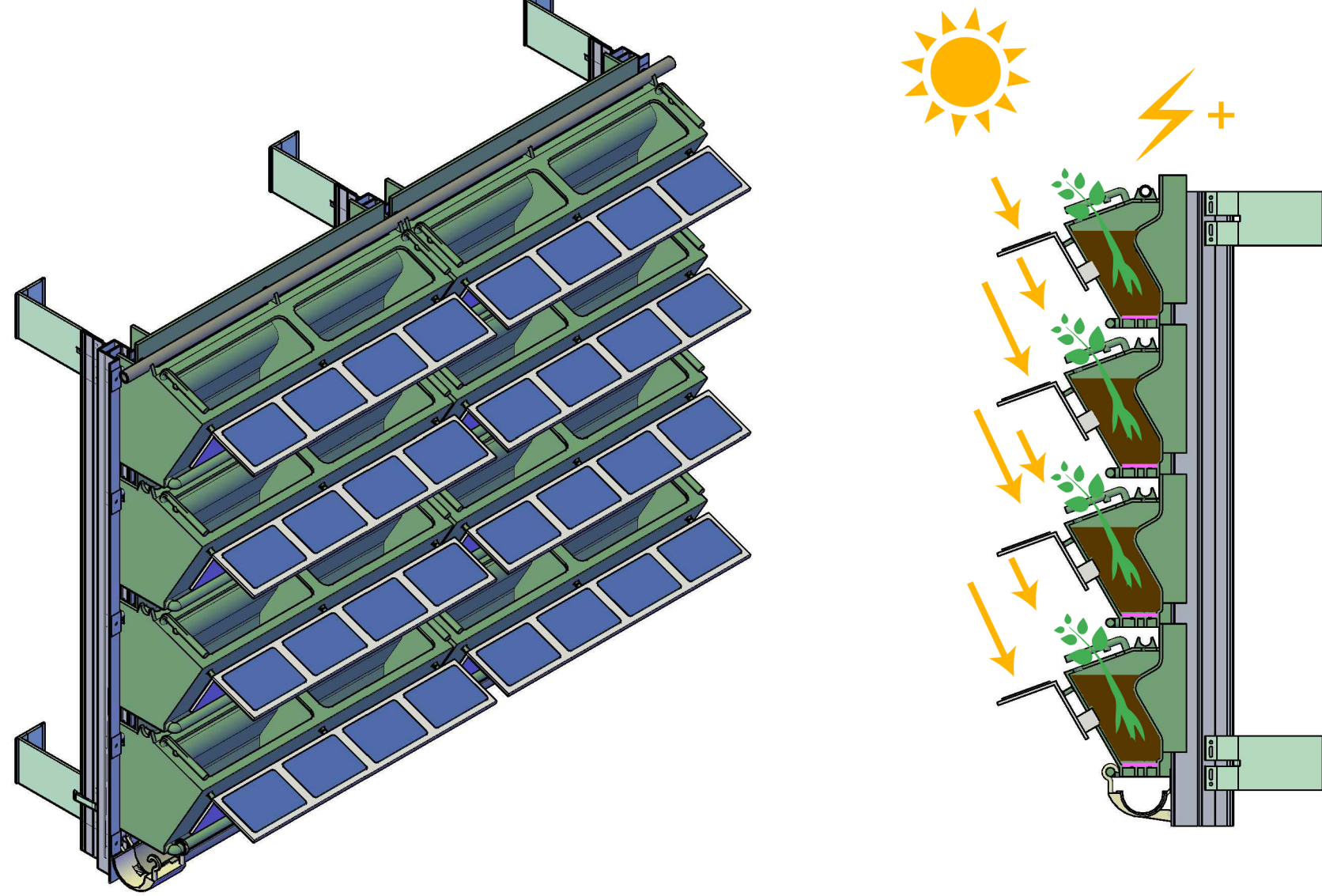
By adding elements with a large surface area covered with a titanium dioxide coating, the air quality can be improved even further than with a regular living wall system. The coating converts volatile organic compounds and nitrogen oxides into carbon dioxide and water. The carbon dioxide is then converted by the plants.

Add-on: biodiversity



Various planter boxes on the façade can be transformed into bird-houses or other nest cabinets to increase the local biodiversity. The snap-on connection can be used to connect additional bird feeder elements.

Add-on: energy



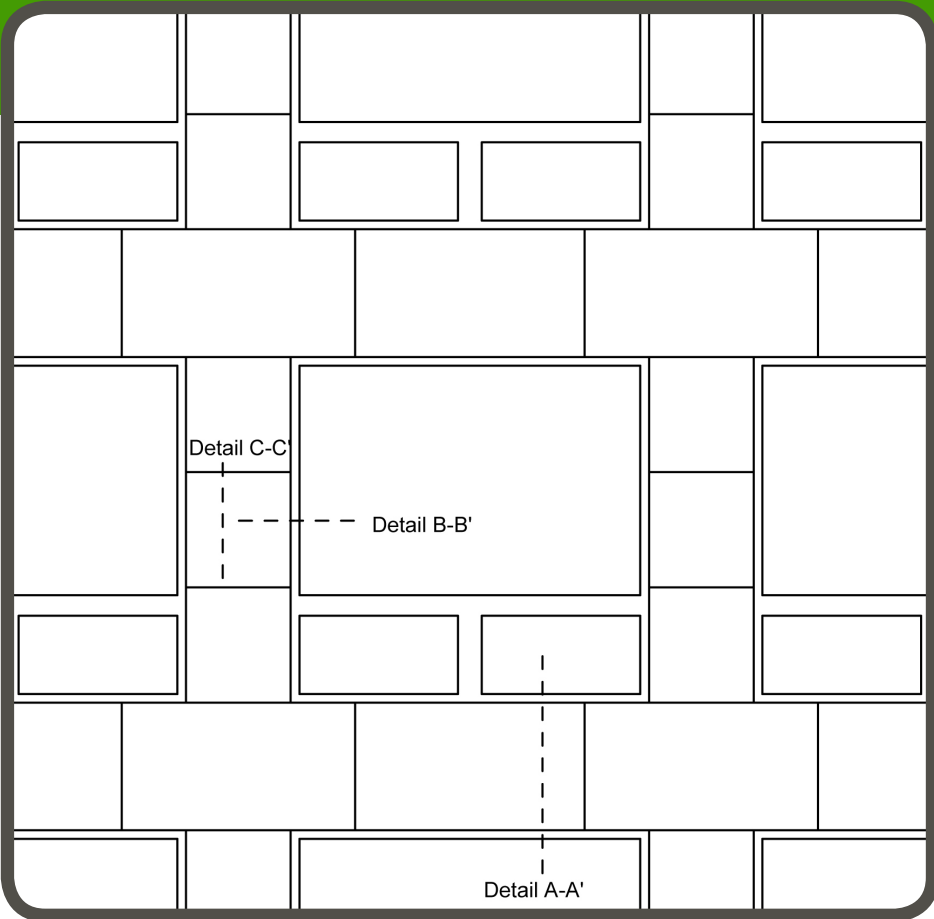
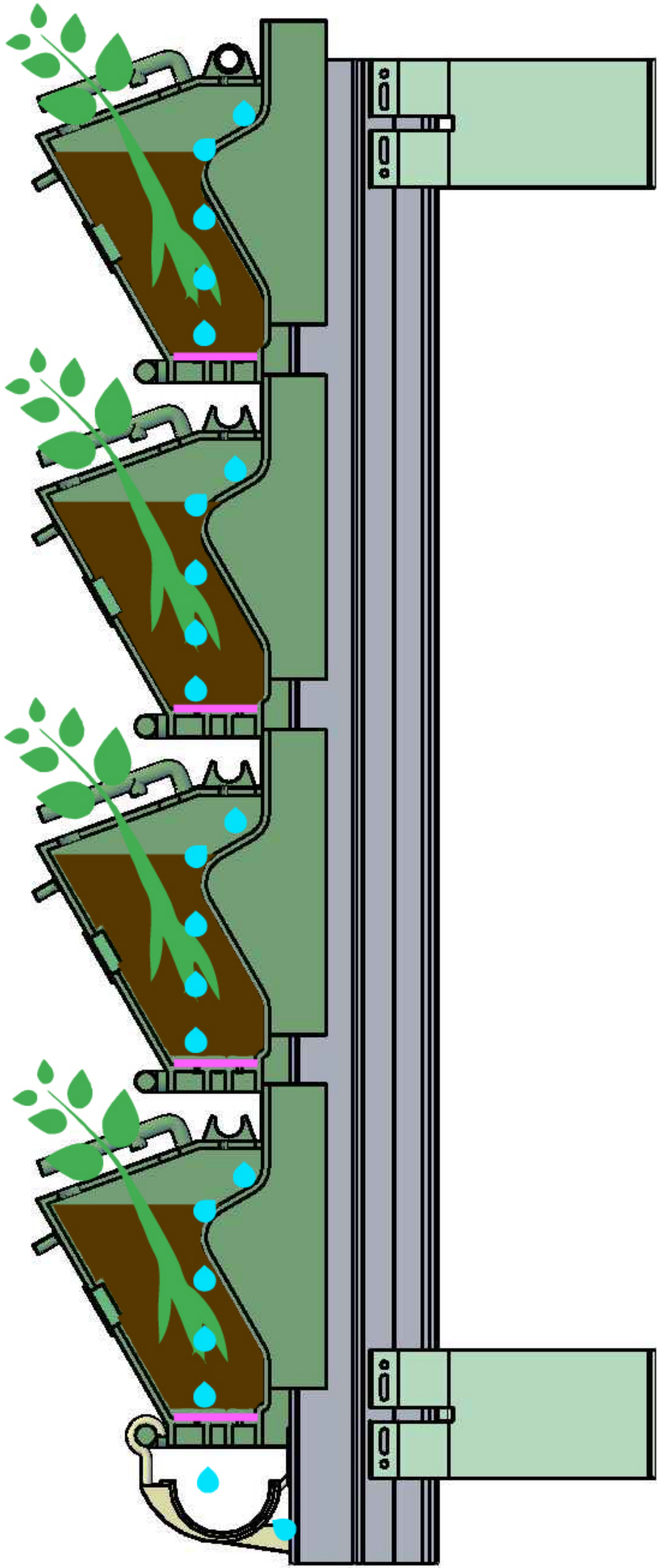
Even vertical surfaces can now function as solar collectors by adding these transparant components with solar cells. The solar cells collect sunlight, while the transparant plastic still transfers sunlight for the plants.

Plug 'n Plant system

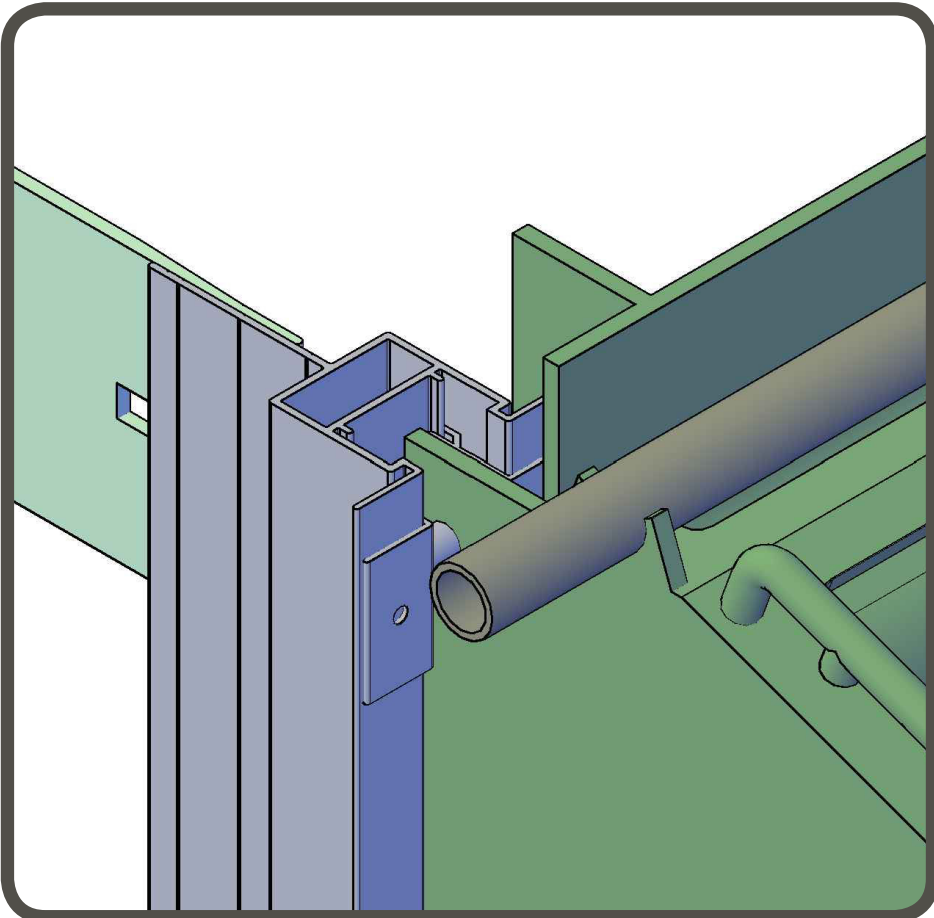
Europoint-complex with Plug 'n Plant system

Europoint-complex with Plug 'n Plant system
with façade redesign

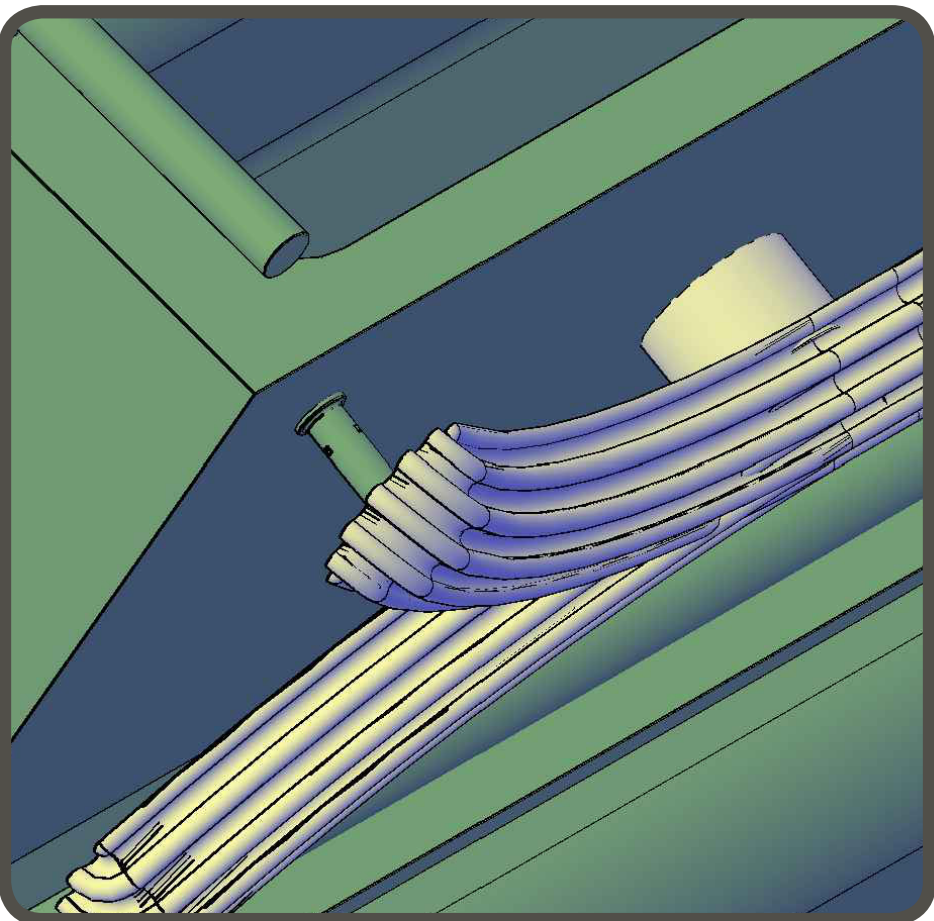
Joey Wagemans
4076354



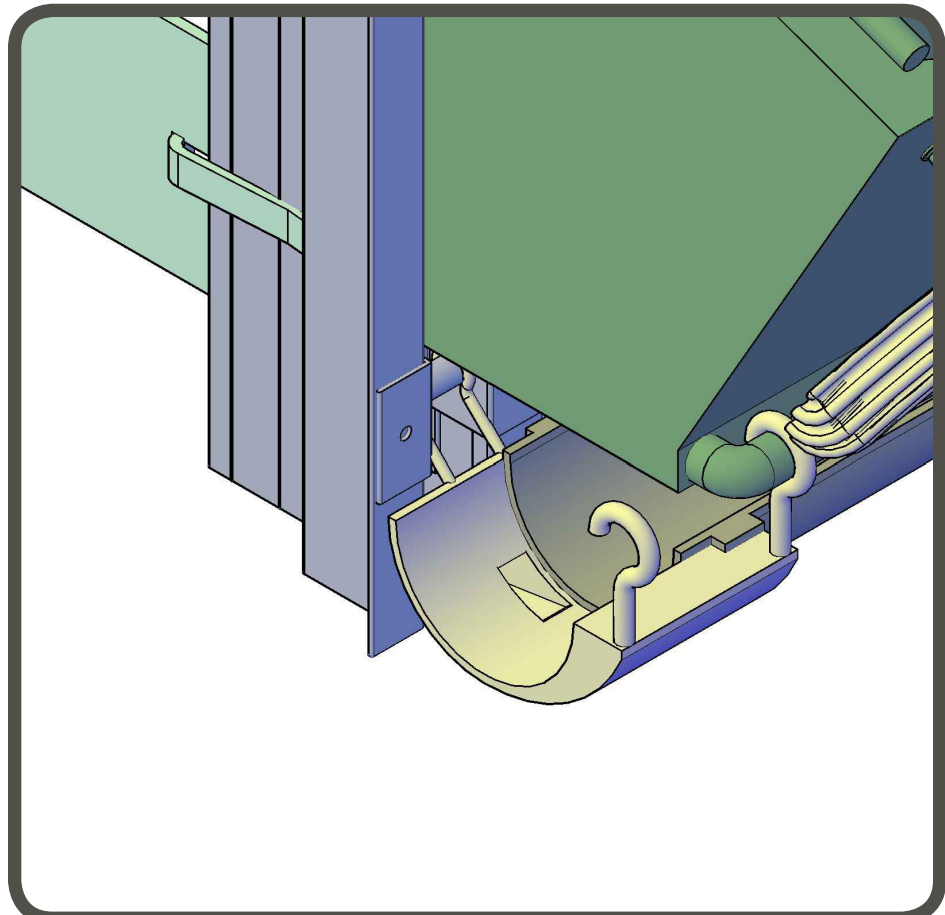
Section locations



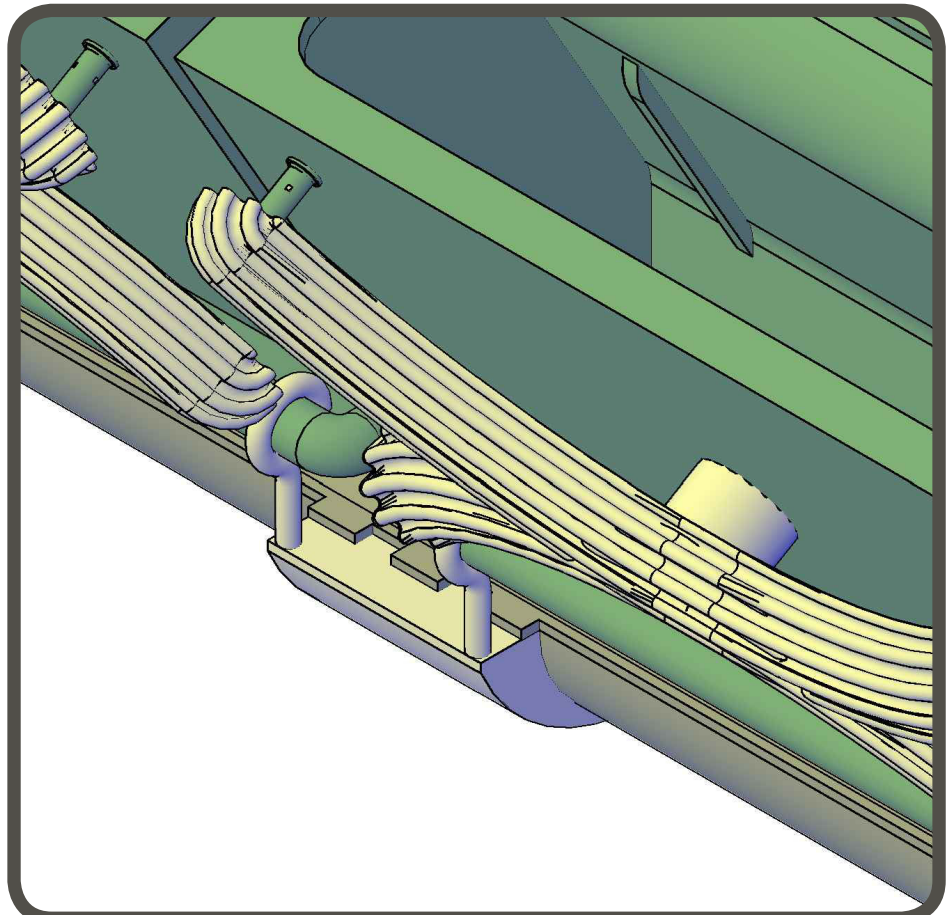
Detail: irrigation



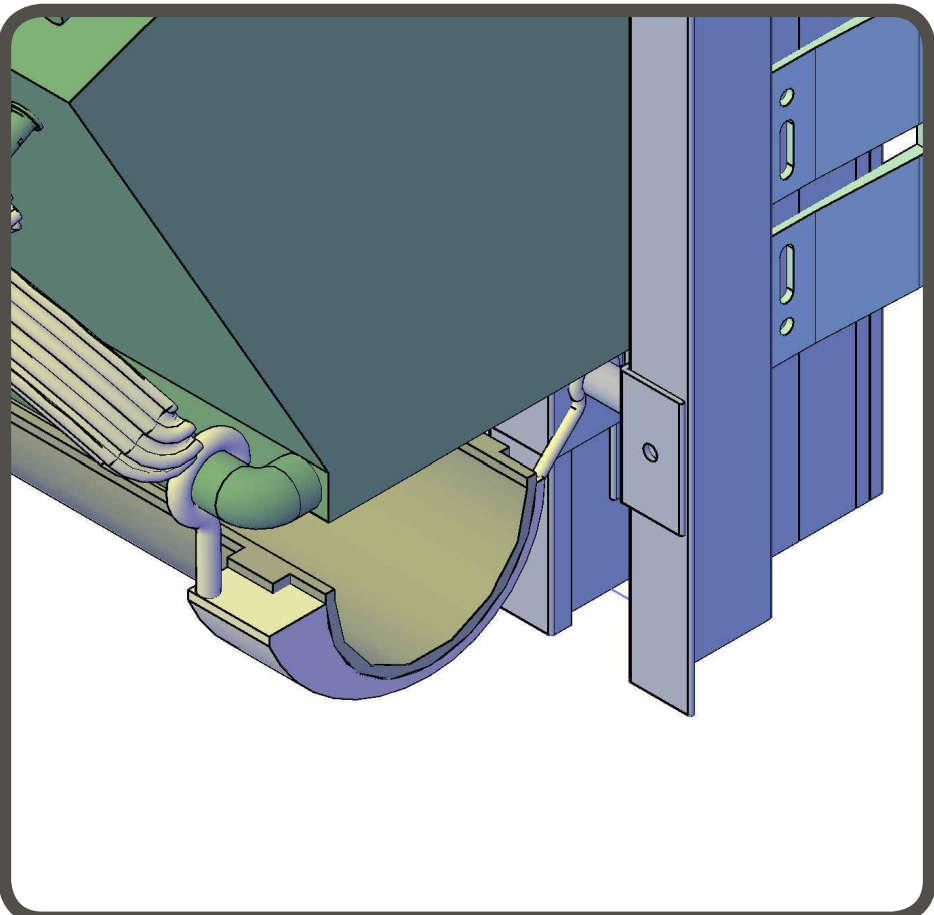
Detail: add-on



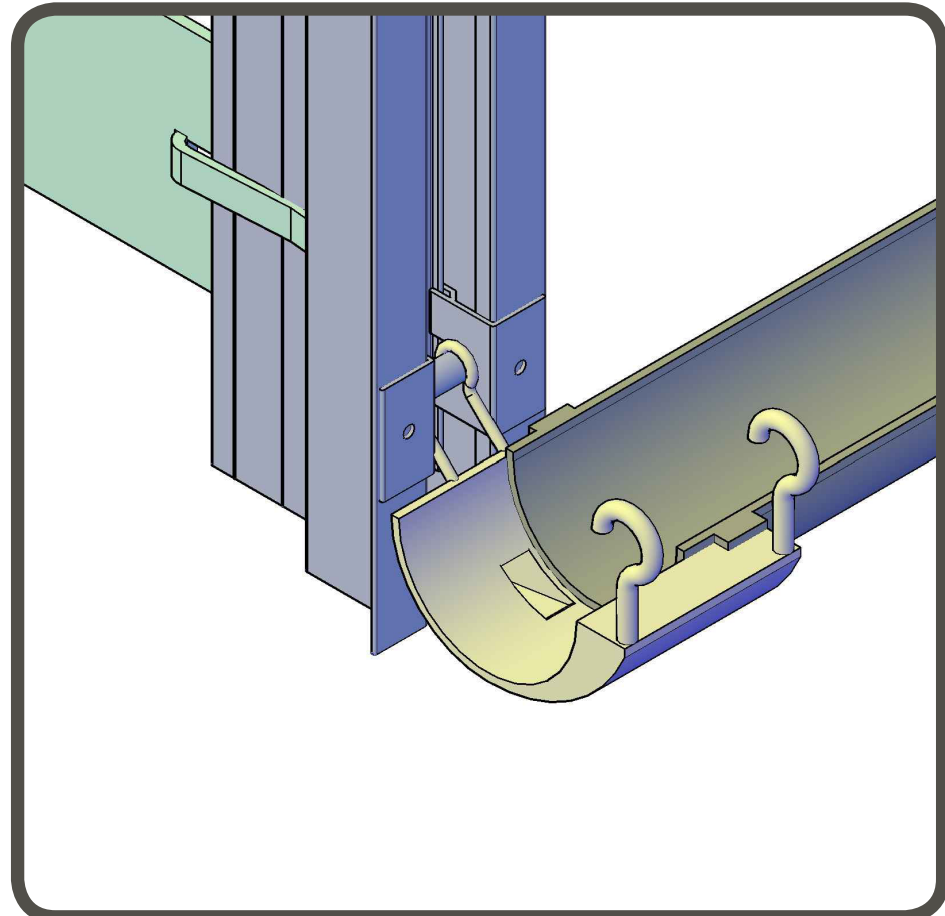
Detail: gutter with drainage



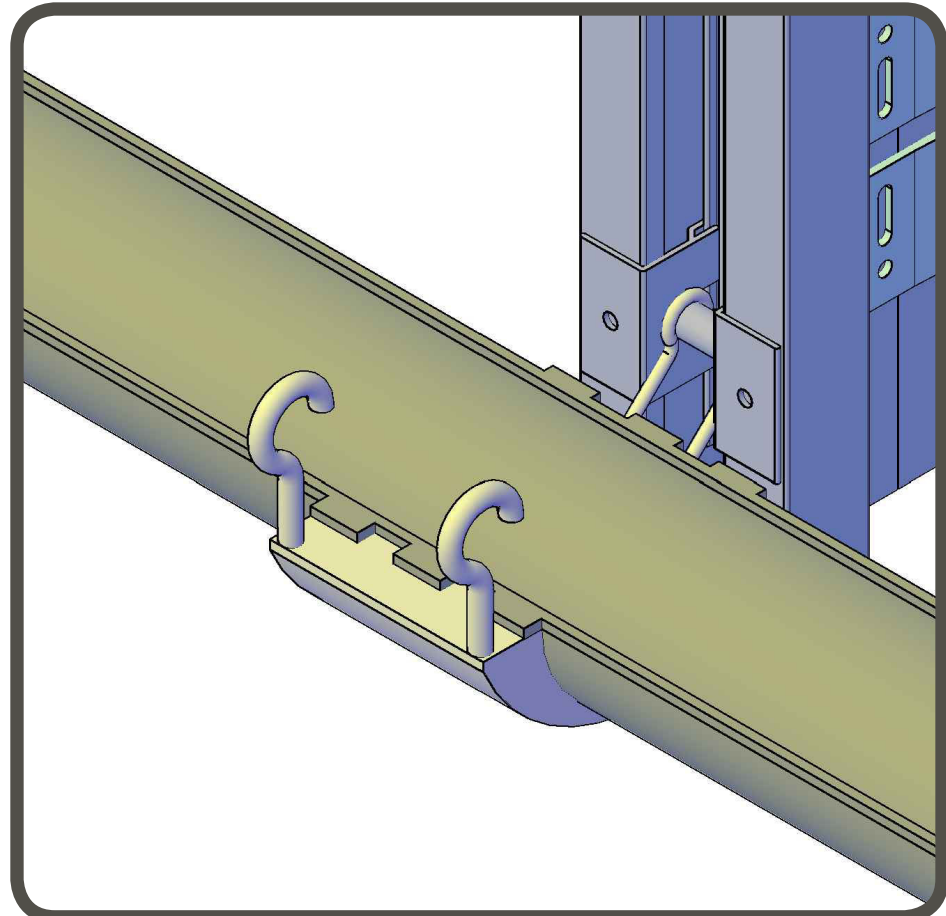
Detail: gutter connection



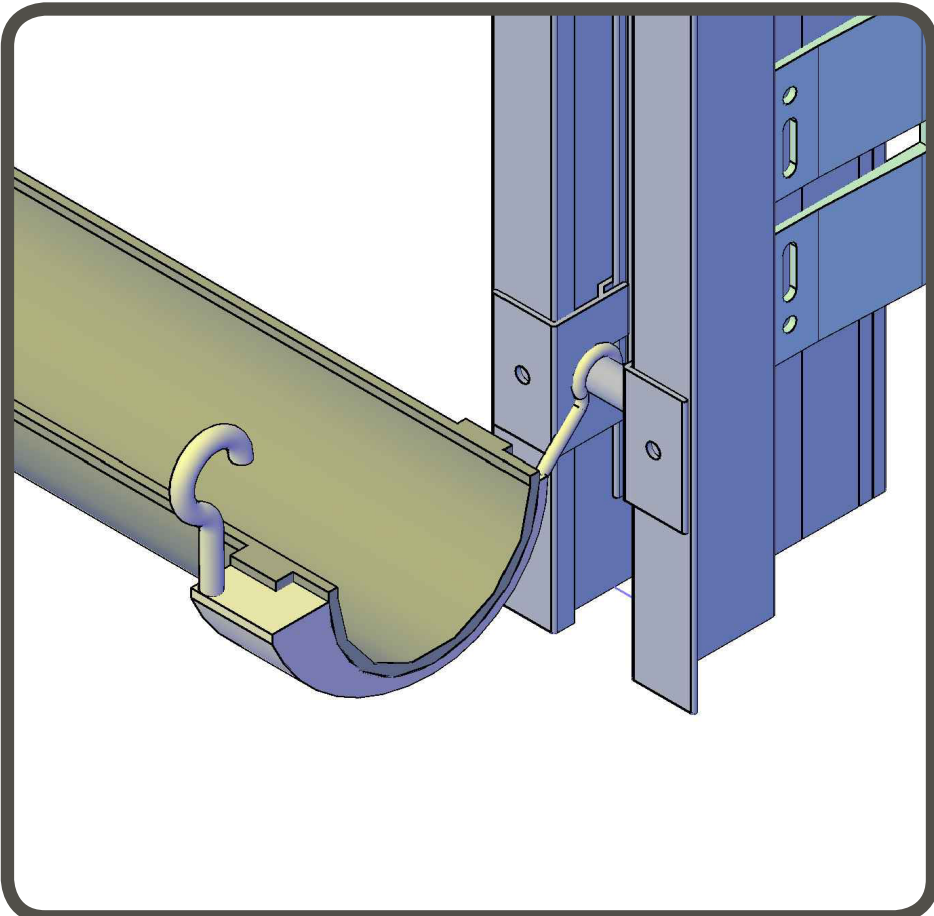
Detail: gutter end



Detail: gutter with drainage

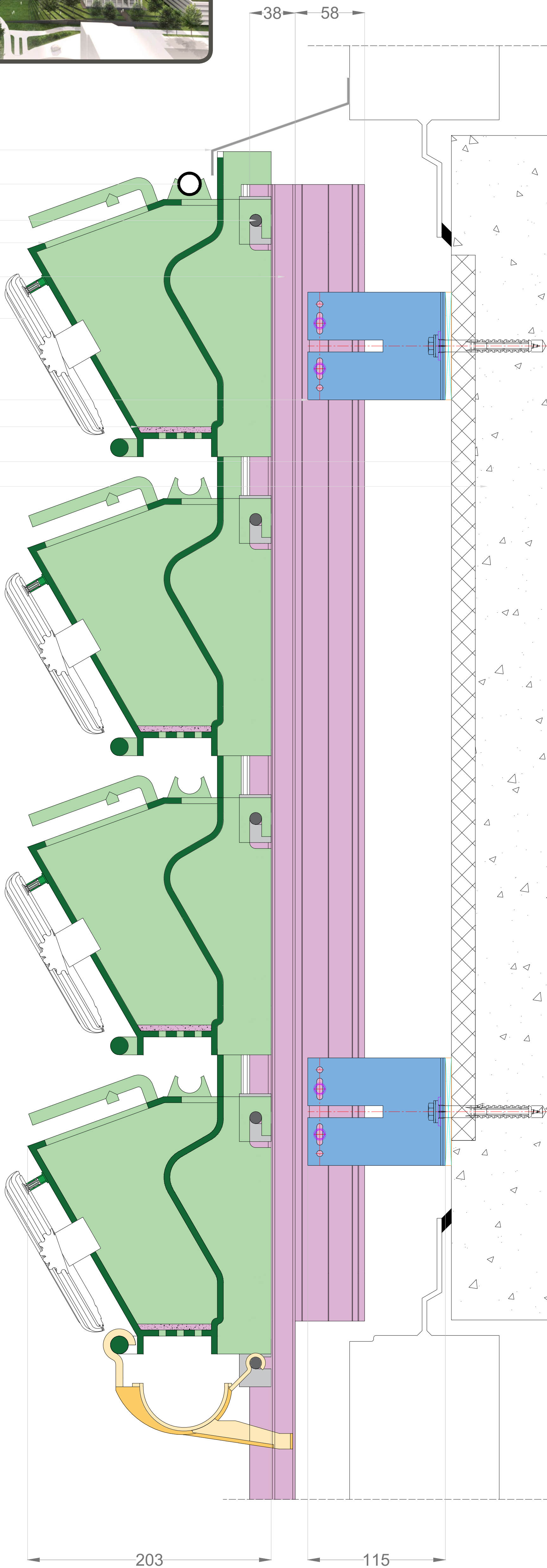


Detail: gutter connection



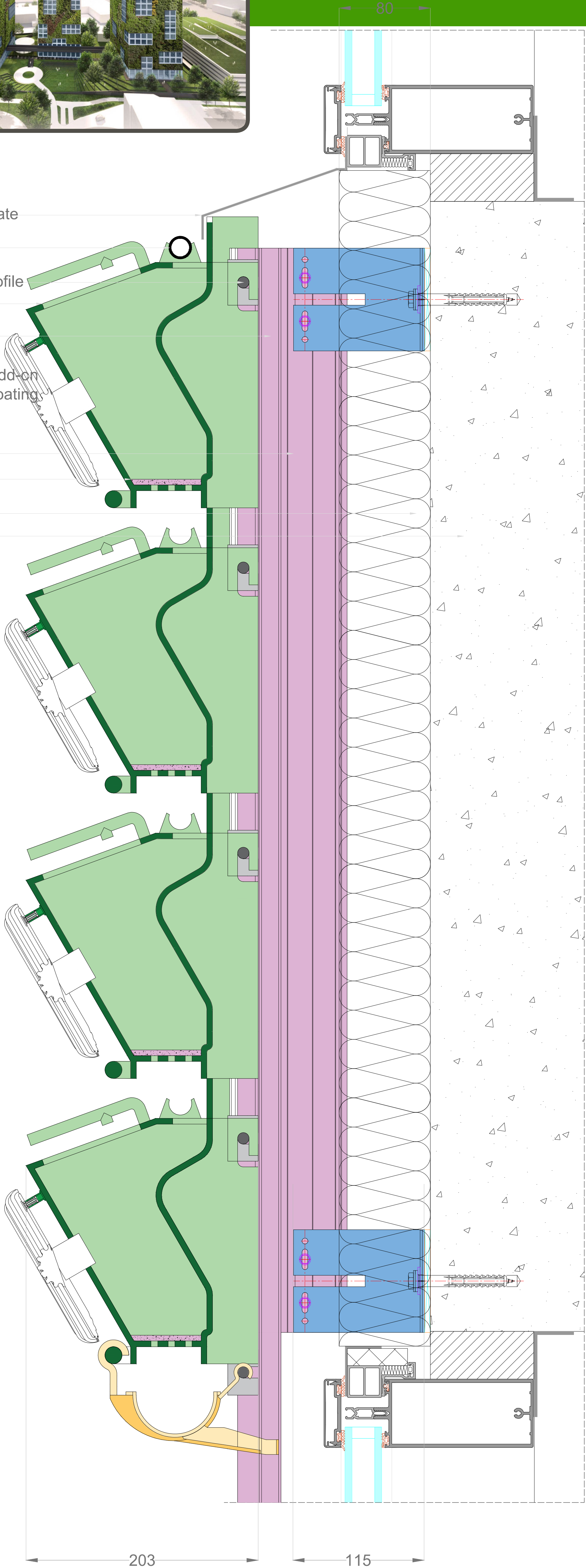
Detail: gutter end

- Aluminium cover plate
- Irrigation pipe
- Aluminium inner profile
- HDPP Planter box
- Aluminium profile
- HDPP Air filtering add-on with TiO2 coating
- Aluminium anchor
- Polyurethane foam
- Insulation
- Concrete structure



Detail 1:2 Europoint-complex without façade redesign

- Aluminium cover plate
- Irrigation pipe
- Aluminium inner profile
- HDPP Planter box
- Aluminium profile
- HDPP Air filtering add-on with TiO2 coating
- Aluminium anchor
- Polyurethane foam
- Insulation
- Concrete structure



Detail 1:2 Europoint-complex with façade redesign