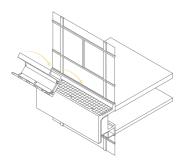


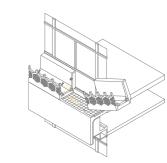
INSTALLATION



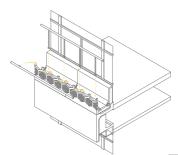
1. TAKING OUT THE OLD RAILING



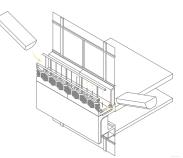
2. PLACING THE PLANTER ELEMENT



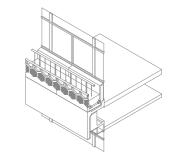
3. CONNECTING THE ELEMENTS



4. MOUNTING THE RAILING AND WATER PIPE



5. FILLING IN THE SOIL



6. READY TO GROW PLANTS

$XP_{lant}S$

1:10 SIDE VIEW

100 60 196 40 196 60







3. Inserting the reinforcement



1:10 FRONT VIEW

325 325 325





5. THE CONCRETE IS HARDENING



SCREWS

1:10 TOP VIEW

vegetation and fostering biodiversity. Designed for ease of installation the planter features a plug-in system tailored for the facade of the civil engineering building. It preserves the aesthetic integrity of the original facade through its complementary design elements. The planter's yellow railing doubles as an integrated watering system for the plants and aesthetically enhances the civil engineering facade. Additionally, the front panel's hexagonal structure not only serves as a bee hotel but also includes an open hexagon that functions as a water drainage system. The structure tiself is cast in concrete reinforced with steel incorporating concrete-filled grooves that seamlessly connect XPS insulation panels making them an integral part of the assembly.

MODEL AND ATTACHTING THE METALWORK

1:10 SECTION VIEW





4. FRAGMENT OF THE PRODUCT IN 1:1

DETAILS

3. STRONG INSULATION-CONCRETE CONNECTION

HEXAGONAL STRUCTURE

HEXAGONAL STRUCTURE
The front ponel of the planter is crafted to be both aesthetically appealing and functional. Consequently, it integrates two additional features. The hexagonal design imparts a new, playful rhythm to the facade, while simultaneously these apertures can accommodate bamboo sticks, transforming the spaces into a bee hotel that provides essential habitat for bees, thereby benefiting the surrounding vegetation as well. Each hexagonal segment includes an open conduit for the drainage system, facilitating the dispersal of excess water to the front without compromising the insulation integrity.

IRRIGATION SYSTEM

IRRIGATION SYSTEM
The distinctive yellow railing on the civil engineering building's facade plays a pivotal role in its visual identity. With the installation of the planter, the narrow balcony ceses to be functional, rendering the original railing obsolete. However, the new water piping is specifically designed to mimic the appearance of the former railing. Moreover, this setup allows for the vertical growth of plants along the structure.

INSULATION-CONCRETE CONNECTION

The construction process involves pouring concrete into formwork that includes the insulation. To enhance the adhesion between the concrete and the insulation, small notches are incised into the insulation. Additionally, the stability of the concrete is augmented by the inclusion of reinforcement.