

CR Land Guanganmen Green Technology Showroom

By Vector Architects

Location: Beijing, China
Surface: 500 sqm
Year of Completion: 2008

Green Solutions Used:
-Green Structures
-Vertical Grass Wall
Paneling system
-Green Roof



BACKGROUND

The project is located in Beijing, China. It is a 3-year temporary "Green Technology Showroom" for CR Land's residential projects. The purpose of the design is to achieve fast construction, minimal impact on the planned site in constructing and demolishing process, and emphasize on "Green and Ecology" topic.

The design company is involved into the project at early stage when the location of the project was to be finalized at the central lawn. The general master map was to make sure the newly constructed "installment" has minimal impact of the designed landscape construction, minimal impact of planned pedestrian circulation, an expected easy demolition process after use and fast recovery of the site. The applied vertical green envelop harmonizes the seemingly floating installment with its existing surroundings.

GREEN SOLUTION

The vertical grass panel system and green roof are integrated in the building envelop. This integration reduces the gain and loss of heat and due to green envelopes great thermal properties the thermal efficiency is also enhanced. The green envelop also benefits the drainage system, the grass panels will reduce storm water runoff. Although seemingly the existing central lawn was taken away to make room for the installment, the planting area is actually tripled by using the grass panels on the roof and two facades. Those grass wall panels were planned to be relocated after demolition onto the partial fence of the residential area.



Green Structure

Architects used the steel structure as the main structural system of the building, therefore, the construction schedule is minimized by overlapping the structural member factory fabrication time with the site excavation. And since the building is elevated, it greatly reduced the excavation and foundation work, thus a minimum demolition time can be expected. Lastly the structural member can be reused after building is eventually demolished, leading to minimal material waste.



Architects: Vector Architects

Location: Beijing, China

Client: CR Land

Design Partner in Charge: Gong Dong

Managing Partner in Charge: Hongyu Zhang

Area: 500 sqm

Year: 2008

Photographs: Vector Architecture

All pictures are from: <http://photo.zhulong.com/proj/detail42985.html>

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