Universal Design Living Lab, Hasselt, Belgium

Demonstration House for UD home adaptation

PARTNERS

PXL, University College, Department of Healthcare - Hasselt University, Faculty of Architecture INTER, Flemish center of expertise for accessibility and Universal Design



Front door, with two steps removed



Entrance Hall.





Ground floor kitchen with adjustable worktop



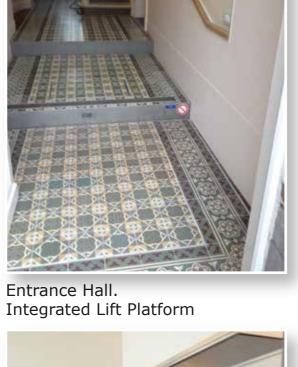
Ground floor kitchen

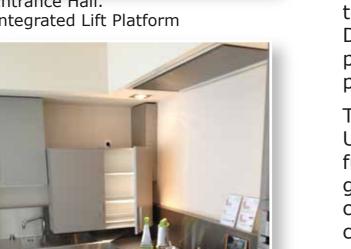


Testing bathroom grab rails



Installed bathroom grab rails





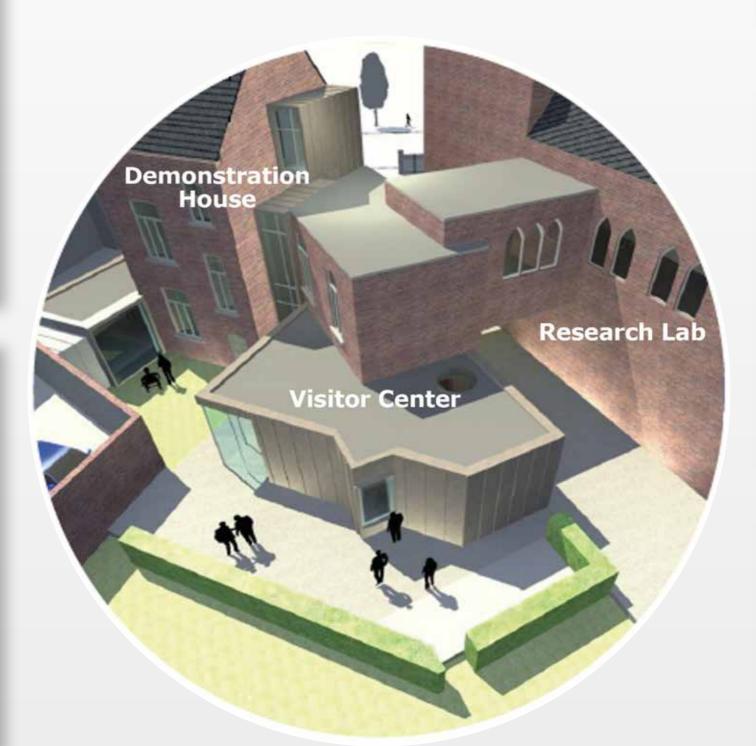
Universal Design aspects

The Living Lab is conceived as an experimental and contemporary synthesis of the UD concept. It is genuinely user-centered and favors open innovation. The demonstration part of the UD Living Lab consists of two dwelling units, housed in a renovated typical row house. The ground level apartment is fully conceived and equipped for semi-ambulant and for non-ambulant people, for home-care and for 'Ageing in Place'. Two steps at the entrance have been replaced by an indoor lift platform, the kitchen and bathroom serve a diversity of users, and home automation compliments possible functional disabilities.

The second apartment, on the two upper floors, is wheelchair accessible (visitable), but focusses primarily on visual impairments, on mental disabilities, and on families with children with disabilities.

The visitor center offers facilities for training and research, for information and consultation, for exhibitions and for lectures. Toilet spaces include a changing place, a shower toilet, plus facilities for stoma care, and for breastfeeding and baby care.

The emphasis is on elegant and non-stigmatizing design, and on functionality for the widest diversity of users.





Test dummy handrail



Installed handrail



SIMONI Architecten (Hasselt), Architects: and TOKO Architects (Lier)

Project date: 2013

▶▶ UHASSELT

Location: Guffenslaan 39, 3500 Hasselt, Belgium

http://www.woonlabo.be/en Website:



The old brick style Maternity Building, built in 1913, was given a different function in 1995 when it became part of the PXL University College Healthcare Campus. More than a decade later the adjacent caretaker's home was transformed into a Universal Design (UD) Living Lab, partly for teaching & research, and partly as a public place to illustrate and to demonstrate UD principles for private homes and for adaptable housing.

The project is a joint initiative of Hasselt University, PXL University College, and TGB Office for Accessibility. It was funded by the European Community, by the federal (Flemish) government and by the provincial government. Over 30 private companies have sponsored the initial project and have contributed innovative solutions.



Upper floor apartment.

Visual and tactile contrast

Visitor Center. Entrance Hall



Upper floor apartment. Kitchen



Visitor Center. Entrance Hall with desk



Visitor Center. Double swing rotating door



Adaptable toilet spaces



Visitor Center. Changing Place



Visitor Center. Shower toilet



Visitor Center. Small Lecture & Exhibit Room



Large Lecture & Exhibit Room



Home Automation System