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Water-retention Boulevard, Luxembourg

by ELYPS Landscape + Urban Design /

[ELYPS Landscape + Urban Design](#): Europe's longest sustainable waterretention-promenade: In the south of Luxembourg, Europe, an industrial area, in earlier days used by the steel industry, is being transformed into an attractive working and living environment.



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Ecology and urban development

With urban development the system of transporting all the stormwater through underground pipes has reached its limits, at least it did in this specific area. An alternative water-concept was needed to have a consistent and sustainable water-management. It was clear as well that the urban development had to be combined with ecological continuity.

Water-Concept Re-use and Visibility

For water-retention 26 water-barriers of European oak poles have been made. Thus creating in the creek different water-levels, making it a green 'water-retention-stairway', where the speed of the water-transport will be slowed down in periods of heavy rainfall. And preventing in this way an overload of the water-system downstream.

The Promenade

Alongside from the water-retention-stairway a pedestrian and cyclist promenade has been made to connect all living, working and shopping areas of the site in a natural way. It is not only the backbone taking care of the accessibility within the site, the cyclist promenade is as well an important joint in the national cycle-path routing.

The bridges, benches and platforms

The bridges have a robust design, matching the proportions of the boulevard and are made of local, European oak combined with steel.

data

Location: Belval Luxembourg, Europe

Designer: [ELYPS Landscape + Urban Design](#)

Van Berchenstraat 19, 6511 BA Nijmegen, The Netherlands, Europe

Team: Johan Buwalda, Yvonne de la Gardia, Gijs Flink, Sonja Mihaljevic

Commissioned by: société de développement AGORA s.à.r.l. et Cie, Avenue de Rock 'n Roll Belval, Esch-sur-Alzette, Luxembourg

period of design: 2006-2010

implemented in: stage 1 2010-2012 stage 2 2012-2015

Project Location: [Luxembourg /](#)

[Show on Google Maps](#)

Typology: [Bridges and Piers / Flood Resilience / Residential Parks /](#)

Built: [2015 /](#)

Involved manufacturers:

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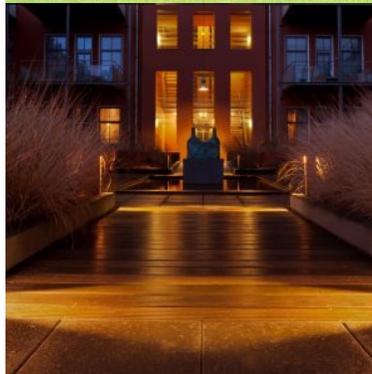


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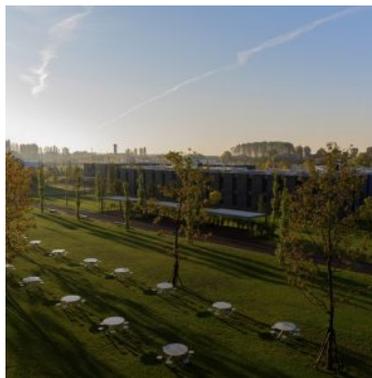
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