BARTELS & VEDDER

Interdisciplinary Engineering & Consultancy agency

29-9-2022

SELECTED WORKS

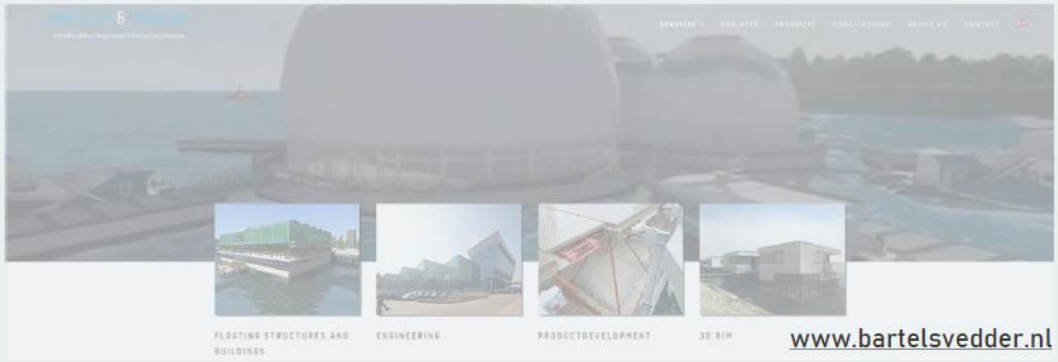
FLOATING STRUCTURES AND BUILDINGS

BARTELS & VEDDER

An interdisciplinary engineering and consultancy agency specialized in innovative solutions for the construction, industry and offshore.

Founded in 2011 by Chiel Bartels and Jelle Vedder, who decided to join their forces to find appropriate answers to existing technical problems.

This collaboration has led to a strong team of specialists who use an integrated and interdisciplinary approach to (traditional) construction, infrastructure, non-residential construction, offshore and floating projects.



www.bartelsvedder.nl

Floating Office Rotterdam

Floating Office in the Rijnhaven Rotterdam

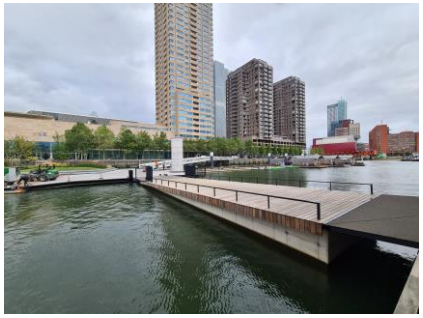
3.607 m2

Developer	: Red Company
Architect	: Powerhouse Company
Contractor	: FOR Building
Engineer	: Bartels & Vedder
Finished	: 2021

Floating Park steigerpark Rijnhaven Rotterdam

+/- 10.000 m2

Developer	: Gemeente Rotterdam
Architect	: Carve
Contractor	: GKB
Engineer	: Bartels & Vedder
Finished	: Phase 1 : 2022 Phase 2:
start 2022	



Floating village Nijmegen (project Lentse Kust)

27 floating houses

Developer	: Balance D'eau
Architect	: Zeinstra Veerbeek
Contractor	: Zederik bouw (Damsteegt)
Engineer	: Bartels & Vedder
Finished	: In progress

Wikkelboats Rijnhaven Rotterdam

+/- 70 m2

Developer	: Wikkelboat
Architect	: -
Contractor	: Hercules
Engineer	: Bartels & Vedder
Finished	: 2022

FLOATING STRUCTURES AND BUILDINGS

SELECTED WORKS

FLOATING FERRY TERMINAL, TERENGGUANU | MALAYSIA 2015-2018

Project status: Completed

This floating ferry terminal (approx. 5,000 m²) is situated in the largest reservoir of South-East Asia. Tasik Kenyir (or Kenyir Lake) spans over 260km2, with about 340 small islands, 14 waterfalls and many rapids.

OUR INVOLVEMENT

- Engineering and design of the floating-HOLCON®
- Creating the modular floating island
- Engineering and design of the floating EPS bodies
- 3D BIM model
- Drawings for Building permit
- Drawings for Construction and Production

For more info on this project please visit our website

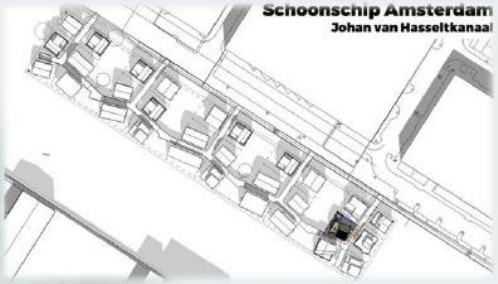
FLOATING STRUCTURES AND BUILDINGS

SELECTED WORKS

SCHOONSCHIP, AMSTERDAM | THE NETHERLANDS
2016 – 2020

Project status: Construction

A large scale floating residential area, existing of all floating villas arising in the Johan van Hasseltkanaal, a branch of the IJ-canal in Amsterdam. This floating "district", called Schoonschip will be the most sustainable floating housing project in Europe which will exist of a total of 30 houses, 46 households and over 100 residents.



OUR INVOLVEMENT

- Engineering of the floating foundations/cellars of 16 houses
- Engineering of the mooring piles and construction of 16 houses
- Engineering of the structural design of 16 houses
- Determining and engineering the stability and draught (depth) of 16 houses
- Structural drawings for building permit applications of 16 houses
- Conceptual structural drawings for construction of 12 houses
- 3D BIM structural model of 4 houses
- Shopdrawings (Construction drawings)

For more info on this project please visit our website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FLOATING STRUCTURES AND BUILDINGS

SELECTED WORKS

WATERRIJK FLOATING HOUSES, WOERDEN | THE NETHERLANDS
2017 – 2018

Project status: Completed

12 luxurious floating houses on the Cattenbroekerplas in The Netherlands

OUR INVOLVEMENT

- Engineering and design of the floating foundations
- Engineering and structural design of the houses
- 3D BIM model
- Architectural drawings for Building Permit application
- Shopdrawings

PRODUCT DEVELOPMENT:

- Floating Glass fibre composite basement cellars

For more info on this project please visit our website

FLOATING STRUCTURES AND BUILDINGS

SELECTED WORKS

FLOATING FARM, ROTTERDAM | THE NETHERLANDS
2016 – 2019

Project status: Construction

The Floating Farm is a self-sufficient transparent floating dairy farm where visitors can see the cows and get acquainted with all the processes that take place on the farm.

OUR INVOLVEMENT

- Engineering and design of the floating linkable concrete cellars
- Determining stability and draught (depth)
- Engineering of the main load-bearing structure

PRODUCT DEVELOPMENT:

- Floating linkable concrete floating cellars

For more info on this project please visit our website

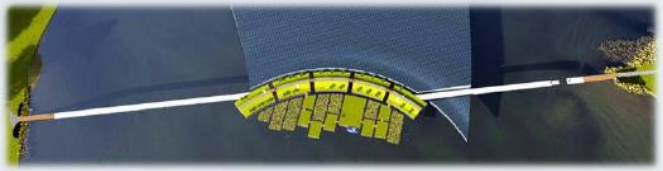
FLOATING STRUCTURES AND BUILDINGS

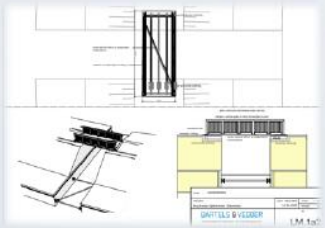
SELECTED WORKS

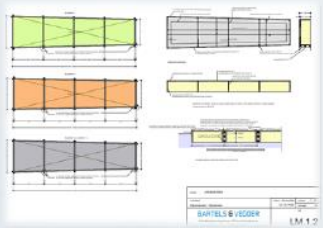
K3 DELTA, LINGEMEREN | THE NETHERLANDS
2018 – 2020

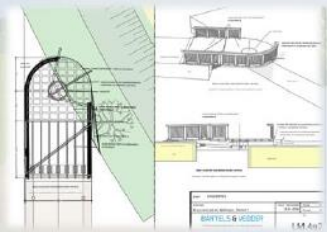
Project status: development

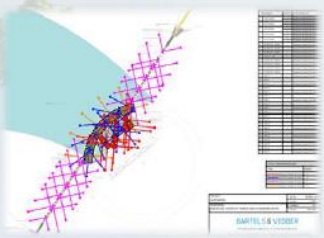
The formerly agricultural area Lingemeren is being transformed to a water-rich nature and recreational area. In the center of the lake an island, existing of smaller connected islands, will form a sustainable link between the north and south shore. These (concrete cellar) islands are linked by means of flexible, hinged structural elements, housing different functions like pedestrian and cycling lanes. The anchorage of the island should be considered for both the whole island as well as the smaller connected island.











OUR INVOLVEMENT

- Engineering of the floating linkable concrete cellars
- Engineering of the hinged and rotatable structural connections of the floating islands
- Engineering and design of the anchorage elements and plan
- Determining stability and draught (depth) of the islands

BARTELS & VEDDER

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