

PROJECT REPORT



DEPOT BOIJMANS VAN BEUNINGEN, ROTTERDAM



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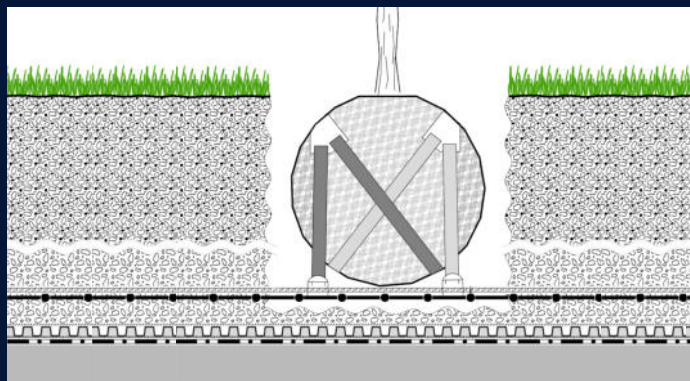
PROJECT DATA

Area: ca. 1.500 m²
Construction Year: 2020

Architect/Landscape Architect:
MVRDV, MTD Landscape Architects

Contractor:
Van der Tol Groep BV

System Build-up:
"Roof Garden", customized
"Walkway", customized



SYSTEM BUILD-UP

Specially adapted Birch Trees

Customized Intensive Substrate

Customized Sub-Substrate

Tree Anchorage System with strap, fixing belts and grid elements

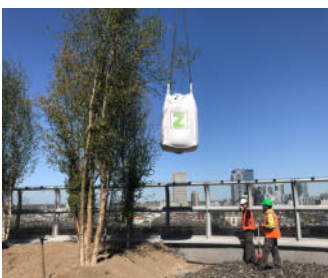
Customized protection, drainage and filter elements

Roof construction with root-resistant waterproofing

CONCEPTION

The Depot Boijmans van Beuningen is a new building in the Rotterdam Museum Park and hosts the first museum art depot worldwide which is entirely accessible to the public. The spectacular glass façade reflects the surroundings and makes the building merge into the Museum Park. To minimise the impact on the existing park, the building was designed in the form of a bowl with a small footprint on ground level, widening only further up towards the roof. It is no coincidence that the Depot won the Rooftop Award 2020 for the most

eye-catching design in the Netherlands: A public restaurant situated in the midst of a 'rooftop forest' consisting of 75 carefully selected and pre-treated multi-stemmed Birch Trees with an especially slim root ball. The watering system is supplied with stored rainwater. However the green roof is not the only sustainable design feature. The goal of obtaining a BREEAM Excellent classification is also based on a combination of geothermal heat exchange, solar panels, LED lightning and a high-class insulation.



The substrate and the trees both are lifted on the roof with a telescopic crane.



The root balls are anchored to the ground to withstand the high wind loads on the roof.

<https://www.mtdls.nl>



Collected rainwater feeds the watering system.

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