

Aubervilliers footbridge



Location: Aubervilliers, France

Date: 2024

Architects : Lavigne & Cheron Architectes

Solution and technologies: 3D

Introduction

Design of a footbridge in 3D structural printed concrete: a world first in Aubervilliers (Seine-Saint-Denis, France).

Description

In anticipation of the @Olympic Games 2024, Plaine Commune Grand Paris has entrusted a consortium led by Freyssinet in association with Lavigne & Cheron Architectes, Quadric, XtreeE and LafargeHolcim to design and build a 40-meter pedestrian bridge in Aubervilliers, whose deck will be made entirely from 3D structural printed concrete.

Optimization

Combining the very best in technological expertise, this project paves the way for building complex architectural and structural elements in concrete and developing bespoke and personalised solutions while keeping costs and lead-times under control. According to estimates, prestressing and 3D printing should reduce the amount of materials by 60%, thus considerably improving the carbon footprint of the project.

