

# PROJECT REPORT



## “AVLING KITCHEN AND BREWERY“, TORONTO



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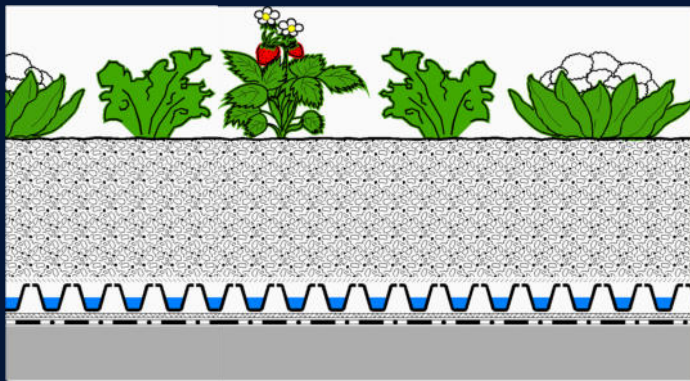
### PROJECT DATA

**Area:** ca. 400 m<sup>2</sup>  
**Construction Year:** 2019/2020

**Architect:**  
LAMAS Architecture Ltd., Toronto

**Installation:**  
Ginkgo Sustainability Inc., Etobicoke

**System Build-up:**  
"Urban Farming" with  
Floradrain® FD 40-E



### SYSTEM BUILD-UP

Plant layer (fruit and vegetables)

System Substrate "Lawn"

Filter Sheet TG

Floradrain® FD 40-E

Protection Mat SSM 45

Root Barrier WSF 40

### CONCEPTION

Beside the restaurant and the brewery, the 400 m<sup>2</sup> roof garden is an essential component of the Avling Kitchen and Brewery conception: it provides tasting ingredients from their own roof garden for both business units. The company's declared goal is to have a sustainable and organic farm with a wide variety of indigenous plants. This includes herbs, vegetables, cereal grain, and naturally hops. Flowers are also grown there, as they are important for a vibrant ecosystem. The type of crop is also selected with a view to allowing for the longest possible harvest period through the year.



Avling Kitchen and Brewery is currently also research partner with Zinco Canada to establish data on soil amendments for rooftop farms using FLL growing media.

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For most of the plants, a system substrate depth of 200 mm is sufficient, however, certain types of plants with deeper roots thrive in the raised beds with up to 600 mm substrate depth.

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In order to use the 2 %-pitched roof for growing, a system build-up was needed that is appropriate for crops. The choice was made in favor of the "Urban Rooftop Farming" System Build-up. It's core piece is the 40 mm deep drainage and water retention element Floradrain® FD 40-E which stores stormwater in its upper cells and draws excess water off safely to the roof outlets through its underlying channel system. It also provides for an optimal water-air balance which is vital to enable the vegetation to become permanently established.



The living roof is just bursting with vitality. An incredible array of herbs, vegetables, flowers and cereal grains grow here.

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