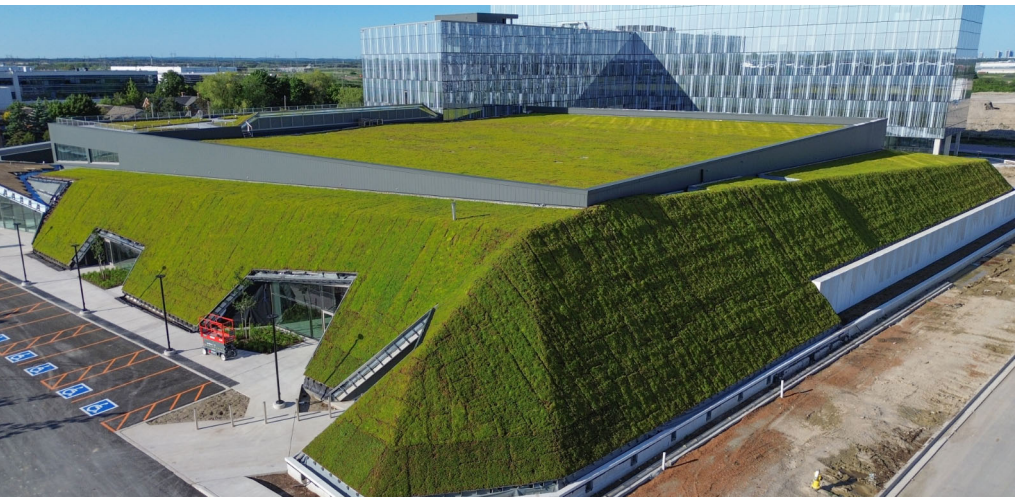
PROJECT REPORT

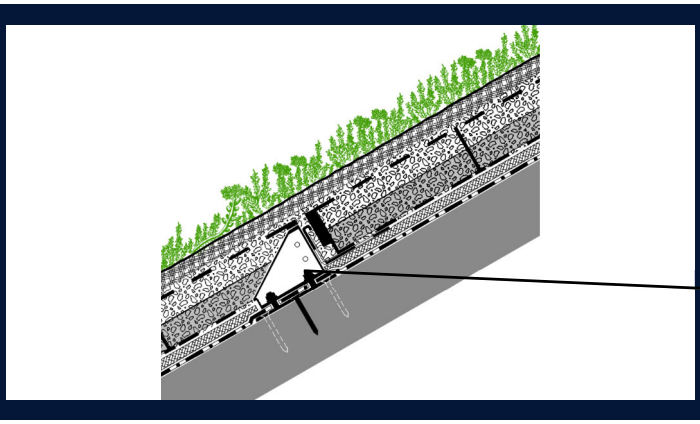
LIUNA LOCAL 183, VAUGHAN, ONTARIO



The event hall at the LiUNA Local 183 complex is practically enveloped by green spaces.

PROJECT DATA

Area: ca. 11,700 m²
Construction Year: 2023 - 2024
Landscape Architect:
PMA Landscape Architects Ltd., Toronto
Design:
UCC Group Inc., Toronto
System build-up:
“Steep Pitched Green Roof” with Georaster®
“Pitched Green Roof” with Floraset® FS 75
„Sedum Carpet “ with XD 20
„Roof Garden “ with FD 60 neo



SYSTEM BUILD-UP

Pre-cultivated Vegetation Mats "Sedum Carpet"

Filling with System Substrate "Heather with lavender - light"

Georaster® elements

Shear-Fix LF 600

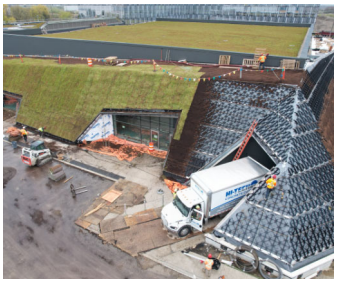
Protection Mat WSM 150
Roof construction with root resistant waterproofing

CONCEPTION

The LiUNA union building is not only the steepest green roof in Ontario, but at 3,600 m², it is also the largest green roof in all of Canada to be constructed using the Zinco system with Georaster®. This system build-up "Steep Pitched Green Roof" provides the very best solution for the necessary shear resistance and erosion protection on steep roof surfaces with a slope of up to 35°. Since the event hall has roof slopes of up to 50° in some areas, enhanced measures were required in the form of a sufficient number of shear shear-fixes, spaced 4.25 m apart, were required to safely transfer the resulting shear forces into the roof structure and prevent the vegetation from sliding off.
Accessible outdoor areas are located on the roofs of both the event hall and the three-story office complex, as well as in the courtyards above the underground parking garage ceiling. For the desired intensive planting (1,900 m²) and all walkable surfaces (1,000 m²), the Zinco “Roof Garden” system with Floradrain® FD 60 neo provides the ideal foundation.



The Georaster® elements form a stable, two-dimensional structure with plenty of space for roots to grow through.



The pre-cultivated vegetation mats immediately form a continuous layer of vegetation. This protects against erosion.



From the three-story office wing, you can access the flower-filled rooftop terrace above the event hall.
The roofs feature a diverse array of plants.

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