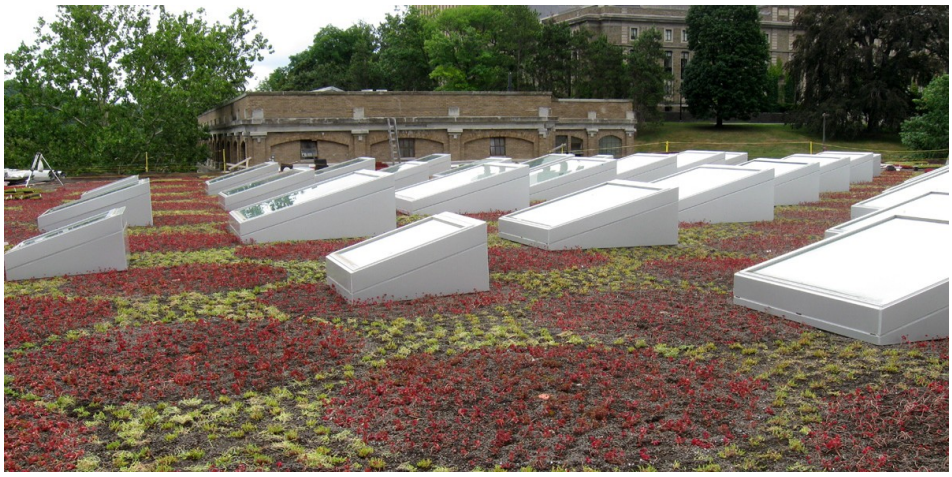
Project Profile Data

Milstein Hall at Cornell University, Ithaca, NY, USA



The planting pattern of the two Sedum species is still clearly recognizable.

Project Data

Area: 27,500 sq. ft (2,550 m²)

Construction Year: 2011

Architect/Design:
OMA Rem Koolhaas, Rotterdam

Contractor:
Evans Roofing Company and Cayuga Landscape

System Build-up:
"Sedum Carpet" with Floradrain® FD 25-E

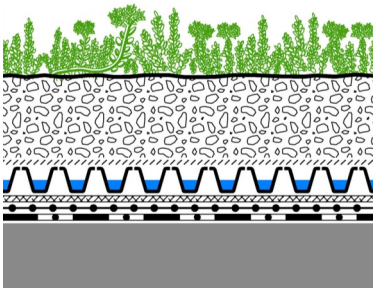
Coordinates:
42°27'4.10"N 76°29'0.96"W

Conception

The Milstein Hall School of Architecture at Cornell University is home to a number of sustainable design features. The LEED Gold certified building utilized sophisticated mechanical systems and a host of recycled building materials. The signature of the building was the ZinCo USA Sedum Carpet System that was installed among an intricate diamond shaped pattern of rooftop skylights. The green roof system has 2.5" (63.5 mm) of Zincoblend extensive growing media to support the more than 90,000 native plug plants that were used to vegetate the system. The TPO waterproofing membrane had root resistant qualities that allowed the ZinCo Protection Mat SSM 45 to lay directly on top of the membrane. Because Ithaca, NY was a borderline hardiness zone for sedum vitality, a drip line irrigation system was installed to counterbalance the extreme high and low weather patterns inherent to central NY state.

The renowned architect Rem Koolhaas of OMA Architecture provided the design for the new building of the university, at which he himself had studied in the early 70s.

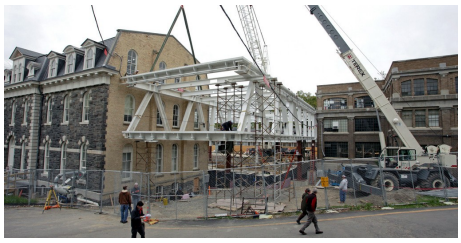
System Build-up



- Plant layer
- Growing media Zincoblend
- Filter Sheet SF
- Floradrain® FD 25-E
- Protection Mat SSM 45
- Root Barrier WSF 40
- Roof construction with waterproofing

The numerous skylights provide the rooms below with sufficient light.

Development



The new building is based on a steel-glass-structure and its main purpose is to connect the two buildings in which accommodate the architecture department.

After the laying of the drainage elements on the entire roof surface the growing media providing the base for the plants has been applied.

The roof has been planted with two different species of Sedum, as specified by the architect.

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