

Project Profile Data

The Philadelphian, Philadelphia, PA, USA



Besides the reduction of water runoff, the green roof also enhances the visual appearance of the surface.

Project Data

Area: ca. 10,000 sq. ft. (ca. 1,000 m²)

Renovation: 2015

Contractor:
United States Roofing Corporation

System Build-up:
"Ornamental Sedum" with Floradrain®
FD 40-E on inverted roof

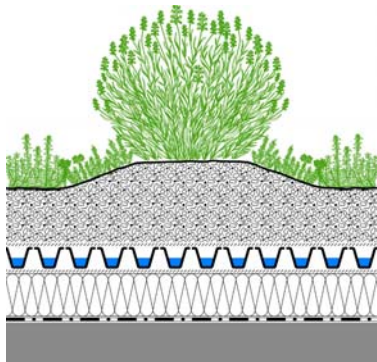
Coordinates:
39°58'1.02"N 75°10'40.98"W

Conception

The Philadelphian Condominiums complex was built in the 1960's and is situated just opposite the Philadelphia Museum of Art. Recently the unsightly, poor draining and leaking black roof has been renovated and turned into attractive greenery. As Philadelphia's old sewer system is undersized for heavy rain events, Philadelphia has developed an innovative 25-year storm water plan. Among other measures it heavily

promotes green roofs by providing substantial incentives to condominium property owners for the implementation of functional Stormwater Management Projects (SMPs) and by reducing their monthly stormwater management service charges. The Condo Association in turn has gained an increased property value and energy efficiency plus a 25 year leak free warranty for their roof.

System Build-up



- Plant layer
- Zincblend I
- Filter Sheet SF
- Floradrain® FD 40-E
- Separation Membrane TGV 21
- Thermal insulation XPS
- Roof construction with root resistant waterproofing



Development



The roof of the building was built as an inverted roof.



The substrate was transported to the roof via a telescopic conveyor belt (Telebelt).



Most of the roof area was planted with pre-cultivated plant mats to achieve an immediate green effect. In the area around the technical installations different higher-growing grasses were planted.