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GREEN ROOF TECHNOLOGY
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Green Roof Plant of the Month



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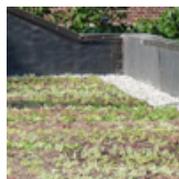
ABC Carpet Green Roof Environmental Monitoring

This past Friday, Jorg, Kat and Andrew traveled to the Bronx to check on the health of the green roof and to construct 4 environmental monitoring stations. All 4 stations are approximately 1.5 m tall with a 1 m x 1 m x 0.15 m box integrated on top.



What to Know When Working with TPO

Working with green roofs for quite some time we have come to appreciate the compatibility of the TPO waterproofing with the Electric Field Vector Mapping System (EFVM). Something important to consider however is the relation between the insulation and the waterproofing in determining the type of EFVM system.



ASLA Lancaster Green Roof Tour

The city of Lancaster boasts many thriving extensive green roofs and has recently announced its commitment to becoming a national role model for urban green infrastructure through its LIVE Green program. Green Roof Technology has had the pleasure of designing several green roofs in Lancaster City.



ABC Carpet Green Roof Environmental Monitor-

In 2010, the Bronx Overall Economic Development Corporation (BOEDC), in partnership with the Bronx Borough President's Office, submitted a proposal to the Bronx River Watershed Initiative to fund a 10,000 square foot green roof on the ABC Carpet Bronx Outlet building at 1055 Bronx River Avenue, Bronx, NY. Green Roof Technology worked with the BOEDC to manage the project, beginning with the design all the way through training and supervising a local workforce to install the green roof. The installation at ABC Carpet was completed in early November of last year.

This past Friday, Jorg, Kat and Andrew traveled to the Bronx to check on the health of the green roof and to construct 4 environmental monitoring stations. All 4 stations are approximately 1.5 m tall with a 1 m x 1 m x 0.15 m box integrated on top. Two of the top-mounted boxes are filled with an extensive green roof system and the other two are only lined with a waterproof membrane. Each box is equipped with 3 temperature probes and a tipping bucket. In the coming weeks, a stand alone weather station will be installed on the roof to monitor wind speed, relative humidity, air temperature, and sun intensity.

Over the last decade Green Roof Technology has worked with numerous organizations and academic institutions to design and set up their green roof monitoring programs. Beginning in the late 1990's, GRT helped establish the first FLL green roof media testing laboratory at Pennsylvania State University and advised their leading researchers on how to set up their own green roof research center. Since those early days in North American green roof research, Green Roof Technology has had the pleasure of establishing research programs at Carnegie Mellon University, Swarthmore College, the City Hall in Chicago, and Villanova University. In 2007, Green Roof Technology worked with the BOEDC to design and install green roof research stations at the Bronx County Court House. These stations were the first green roof boxes to be tested in North American according to the strict FLL guideline and the FLL's standardized testing procedures.



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A project using waterproofing adhered to the insulation requires a metal mesh EFVM system in between the waterproofing and insulation whereas the system that has the waterproofing mechanically fastened to the insulation requires only a wire perimeter on top of the waterproofing. Aside from being more labor intensive to install and modify, some roofing manufacturers would not warrantee their TPO with the metal grid between their waterproofing and insulation. Proceed with caution when roofers site incompatibilities with their TPO and an EFVM system. You may want to consider another manufacturer.



ASLA Tour Lancaster Green Roofs

This past Friday, our very own resident green roof guru, Jorg Breuning, acted as an impromptu green roof tour guide in the city of Lancaster, Pennsylvania. The city was host to American Society of Landscape Architects' Pennsylvania-Delaware chapter's annual meeting. The city of Lancaster boasts many thriving extensive green roofs and has recently announced its commitment to becoming a national role model for urban green infrastructure through its LIVE Green program. Green Roof Technology has had the pleasure of designing several green roofs in Lancaster City. Jorg led a group of 30 landscape architects around the city explaining the different green roof systems on display. The tour group visited two green roof designed by our firm, located at Franklin & Marshall University and Tellus 360.