

George Mason University
Research 1 Demonstration Garden
Fairfax County, Virginia



Date Installed: April 2010
Assembly: Barrett Roofscapes Garden Roof
Roof Size: 800 sq. ft.
System Design: 6 in. semi-intensive greenroof
General Contractor: Siemens
Client: GMU Public Works, Facilities Management
Address: 4400 University Drive
Fairfax, VA 22030

Above: This 800 sq. ft. slab on grade roof garden was placed over a mechanical vault. Two plies of hot rubberized asphalt waterproofing were placed over two existing modified bitumen membranes that were over a composite concrete and metal deck. A protection mat is placed over the hot rubberized waterproofing and then a HDPE root barrier is placed over that.

Right: The roof garden assembly includes a drainage mat, 5 inches of growing media and an 1" of hardwood mulch and is planted with shade tolerant perennial plants.



Left: Adding the growing media on top of the drainage mats. PVC pipes are being used as a height marker to maintain a consistent soil depth. Metal counter-flashing was placed under the existing metal wall panel and will help to protect the flashings.

A paver pathway and interpretive signage will be placed adjacent to the roof garden which will describe the benefits of these roofing systems. For additional, questions concerning the design of this system please contact the project manager (Gregory Long) at 301.452.1144.

