Living Architecture (Ryan V)

Rep for swiss company, jacobs

* What is living architecture?
  + The application of flora to architecture
  + Attaching living components to buildings
  + Alternative to glass, stainless steel
* For greenroofs and other designs where there is organic material touching the house, how is erosion prevented. How do you make sure that the greenery doesn’t damage the building over time?
  + Work closely with specific roofing contractors
  + Needs to be waterproofed correctly
  + Protect the roof with layers
  + Conventional with media directly on waterproof layer
  + Protected membrane method
  + Root barrier
  + Drainage layer
* Is this an industry that people can start out in? Or is it rather complex and usually requires other industry experience?
* What do you do within the company?
  + Plant soil specialist
* Goats on the roof? Would their waste help or hinder the green roof?
  + Need to manage them
* Integrated roofs with surrounding ground and vegetation?
  + West van, with the garage built into the side of the hill with green roof integrated into hill
* Selection of flora used in green roofs? (environment specific)
  + With low growing media, sedum are most traditional
  + Try to match with natural environment
  + 3-6 inch soil for that ^
  + 6 to 1foot is semi intensive, can use grasses and wild flowers with deeper root systems
  + 1foot to 3foot is intensive, landscaped parks, community gardens, can have mini forest
* Difference in materials used from standard roof?
  + Can be applied to several types of buildings, concrete, woodframe.
  + Leak detection system
  + Mostly build on concrete buildings
  + Increasing number on wood frame buildings
* Impact of green roof on heat transfer
  + Huge cooling effect in summer
  + Small heat retention in winter
* Rain load?
  + Drainage systems
  + On flat roofs you still have a 2degree slope pointing towards the drain
  + Rain water detention systems, tank below the roof (blue green roof)
* Solar panels
  + Use certain plants that work with shade
  + Pair well with green roofs

Oakridge redevelopment green roof