

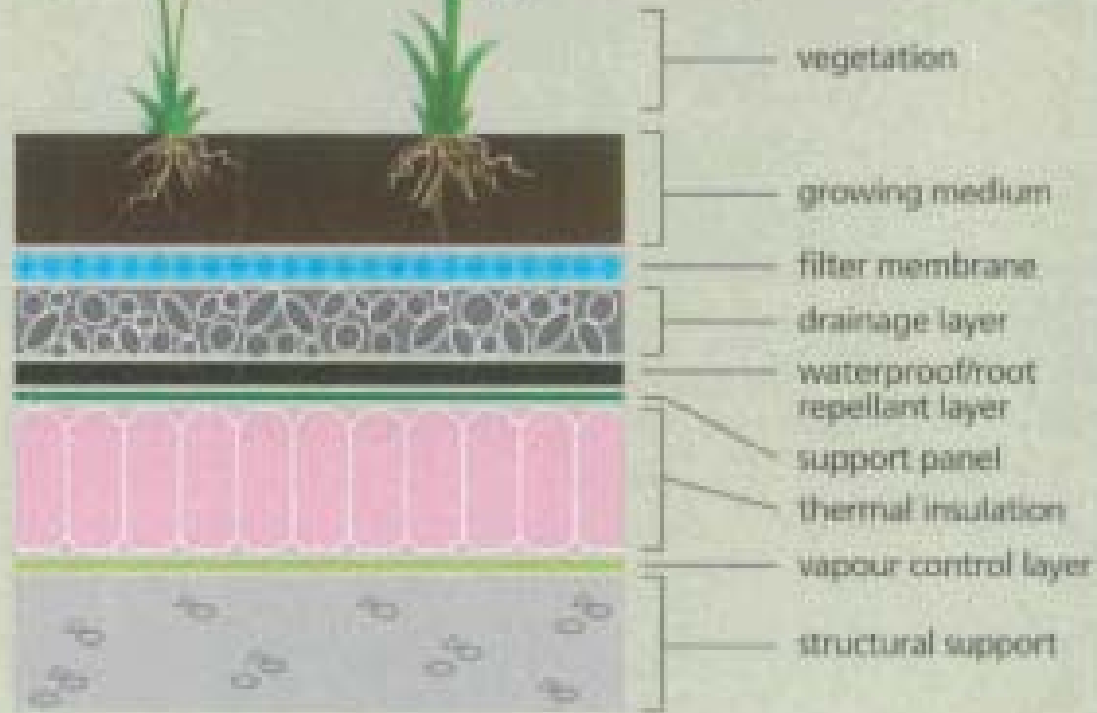
Seeing Green: Chicago's Vegetated Roofs



Sara King EES 662 10.15.09

A Green Roof Is:

Principal green roof technology components



SOURCE: NATIONAL RESEARCH COUNCIL, INSTITUTE FOR RESEARCH IN CONSTRUCTION

Policies & Practices to Grow a Green Roof Program

- Richard Daley, Mayor
 - 1999 trip to Germany
- City Hall Green Roof-2001
- 2005-06: 60 \$5K Grants
- 2007 \$500K in grants
 - Up to \$100K per project
- Expedited Permitting
- Permit Application fees waived
- Density Bonuses
- Reduced Storm Water Mgmt. Fees



Chicago City Hall



Early 2001



Spring 2004

Green Roof Growth in Chicago 2004-2008

2004: 120 Green Roof Projects (completed or planned), just under 2 million sq ft.

2008: Over 300 projects (completed or planned) and 3 million sq. ft.



Green Roof Benefits

-Reduction of Heat Island Effect

50 degree diff. in Chicago Climate vs. black tar roof

-Storm Water Management

Reduced Sewage Overflows

-Increased Building Insulation, Reduced Energy Costs

City Hall saves 9,300 kwh or \$3600/ yr

-Mitigate Carbon Emissions, Improved Air Quality

Intangible Benefit:

Human Enjoyment & Quality of life



True Nature Foods Rooftop Victory Garden



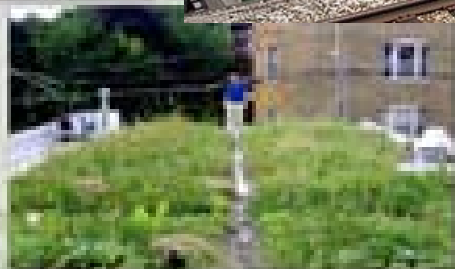
Public Green Roofs: Millennium Park



- Green Roof on top of Large Parking Garage

Red Line, Green Roofs

48th Ward Red Line Green Roof Initiative



Initiative



Red Line, Green Roofs

- 48th Ward-
- Councilwoman Mary Ann Smith
- 50,000 Sq Ft Green Roofs
- Increased ridership for elevated red line commuter route
- Neighborhood benefits: Safety, Quality of life, beautification



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