GREEN ROOFS

WHAT ARE THE BENEFITS OF GREEN ROOFS?



- Rainwater retention, reduces runoff improving water quality
- Conserves heating & cooling energy by insulating roof
- Mitigates urban heat island *(even in the suburbs!)*
- Improves air quality
- May increase the longevity of roofing membrane
- Provides habitat for wildlife

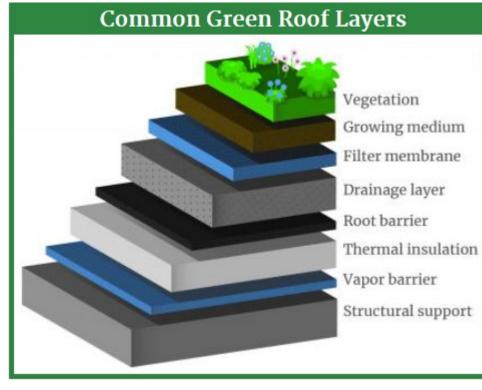
THERE ARE TWO TYPES OF GREEN ROOFS:

EXTENSIVE: for private houses & small structures

- soil depth 3 to 6 inches
- lightweight planting media, 15 to 50 lbs per sq ft
- only 10 to 20% organic matter needed in soil mix
- small plants requiring low maintenance, low nutrients & low irrigation

INTENSIVE: for apartment & commercial buildings

- soil depth 6 inches or more
- heavier roof load, up to 150 lbs per sq ft
- can include trees & shrubs, requiring maintenance, irrigation & fertilization



IF YOU WANT TO INSTALL A GREEN ROOF, YOU MUST GET PROFESSIONAL PE AND LA ASSISTANCE!

More information:

https://www.epa.gov/heatislands/using-green-roofs-reduceheat-islands

http://libguides.nybg.org/greenroofs

https://greenroofs.org

http://www.belknapccd.org/wpcontent/uploads/sites/18/2013/07/Gre en-Roof-for-Small-Structures-BCCD-Handout.pdf

GREEN ROOF DEMO PROJECT 5/5/2019

Ardsley High School Environmental Science Club:

Ms. B. Palucci/Faculty Advisor; E. Caceres/Chair, M. Murthy, J. Holt, A. Arif Location: McDowell Park

Project:

A small green roof demonstration project using a doghouse with an asphalt shingle roof (Trixie Pet Products, Fort Worth TX).







GREEN ROOF DEMO AT McDOWELL PARK!

