Green Roof Gardening

Course: Econ 2505

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What is Green Roof?

A green roof is a roof of a building that is partially or completely covered with vegetation and a growing medium, planted over a waterproofing membrane.



Types of Green Roof

- **Extensive**
- ► Semi-Intensive
- **►** Intensive







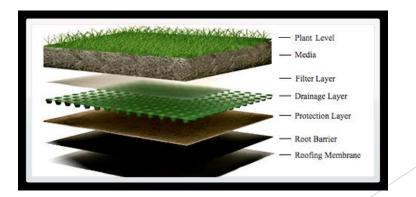
Benefits of Green Roof Garden

- ► Fresh Food
- Fresh Clean air
- Less fossil fuel involvement
- Reduce Heat(Reducing air condition costs)
- https://www.trentu.ca/eab/docu ments/Rooftop_Gardens-Zipple.pdf









Economic and Social Benefits

- New jobs
- Save cost of energy
- Education opportunities
- Storm water managementquality and quantity









Disadvantages of Green Roof Garden

- Expenses
- Maintenance
- ▶ Damage Membrane
- Companies





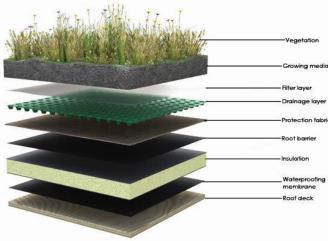


Safeties Requirements

- ► Flat Roof
- Design
- Roof Condition
- Water Proof Layer
- Drainage Layer
- ► High Quality Membrane
- Safety Railings







Certification

LEED



Overall Review

- ► Fresh Food
- ► Environmental Benefits
- Social Benefits
- **Economic Benefits**
- Expensive
- Safties

Conclusion

▶ In all my research, I learned that the green roof garden have many benefits and less disadvantages. In benefits, Green roof uses plants to cool a building in summer by absorbing CO₂ from the air, it reduce storm water runoff which contributes to urban flooding, and gives fresh food and so on. The disadvantage is just the cost of installation and maintenance but it pays you back.