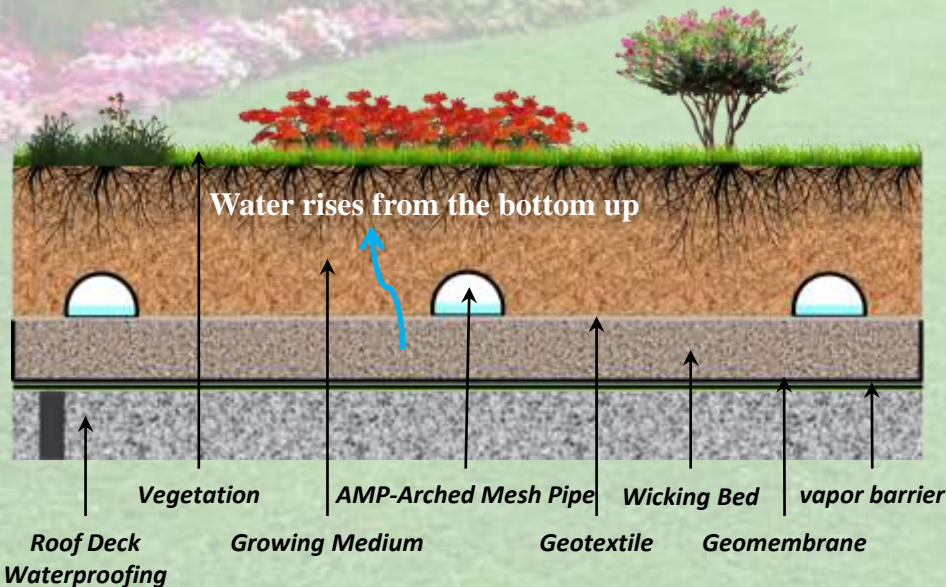


## Advantages of Raised Bed Green Roof



### Green Roof Sub-irrigated Raised Beds

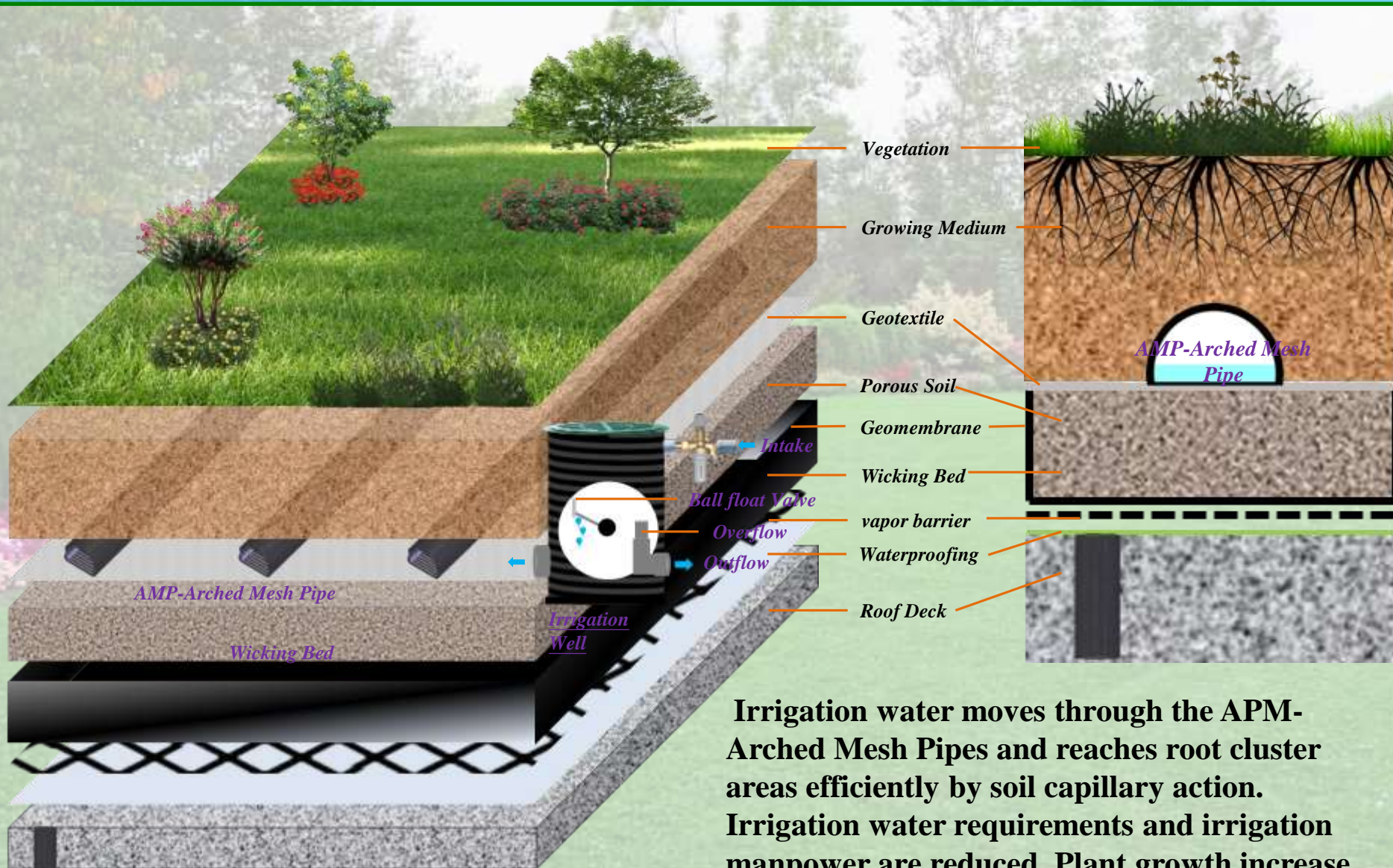
- They are water-efficient ,use between 40 and 50% less water than a conventional garden bed.
- Watering from the bottom up prevents evaporation of surface water.
- Harder for weeds to establish as the soil on the surface is drier.
- Very labor efficient, they are self-watering ,watering is automatic, so it is possible to go away for two or three weeks at a time without your garden bed drying out.
- Can be watered by a low pressure water system, meaning it can be directly connected to a water tank without use of a pressure pump.
- They provide a lot of drainage in the event of a large downpour.
- Large reservoir of water reduces need for frequent watering.
- Evaporation reduced to a minimum with thick mulching
- Harder for weeds to establish as the mulch covered surface is drier.
- Improve soil life. Nutrient is not lost to the subsoil when the garden bed is watered.
- No salting. No evaporation means no minerals left behind in the soil.
- No permanent stale water, so no mosquito larvae or anaerobic conditions.





## Arched Mesh Pipe Subsurface Irrigation and Drainage System

# Raised Bed Green Roof Installation Steps



Irrigation water moves through the APM-Arched Mesh Pipes and reaches root cluster areas efficiently by soil capillary action. Irrigation water requirements and irrigation manpower are reduced, Plant growth increase are equivalent to reduce in fertilizer.



## **Raised Bed Green Roof Installation Steps**





## **Raised Bed Green Roof Installation Steps**

**5. Fill with Porous Soil**



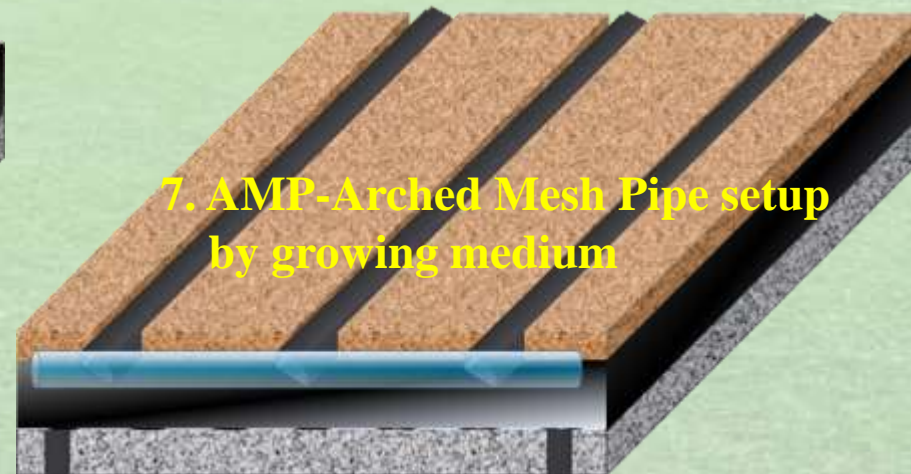
**7. Laying AMP-Arched Mesh Pipe and water supply pipe**



**6. Laying geotextile**



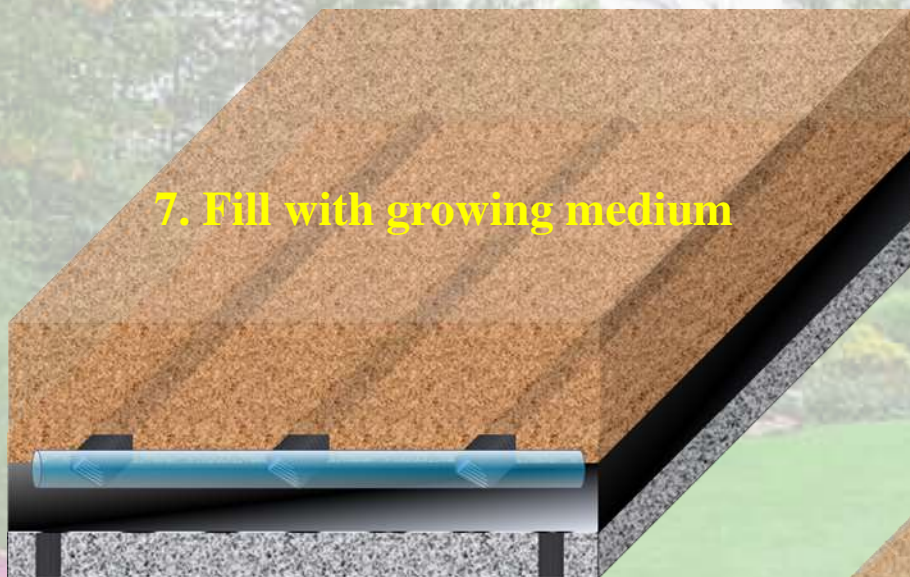
**7. AMP-Arched Mesh Pipe setup by growing medium**





## **Raised Bed Green Roof Installation Steps**

**7. Fill with growing medium**



**8. Connected the water supply system**





## **Raised Bed Green Roof Installation Steps**



**9. Plants, Vegetation**