



ECO-MESH

*Low Impact Development
Stormwater Management and Solution*

***AMP-Arched Mesh Pipe-Green Roof
Sub-Irrigated Raised System***



*AMP-Arched Mesh Pipe
Sub-Irrigation System*



AMP-Arched Mesh Pipe-Sub-Irrigated Raised System **Green Roof + Blue Roof**

Green Roof

Green roofs are made up of a top vegetative layer that grows in an engineered soil, which sits on top of a drainage layer. A green roof can be intensive, with thicker soils that support a wide variety of plants, or extensive, covered in only a light layer of soil and minimal vegetation.

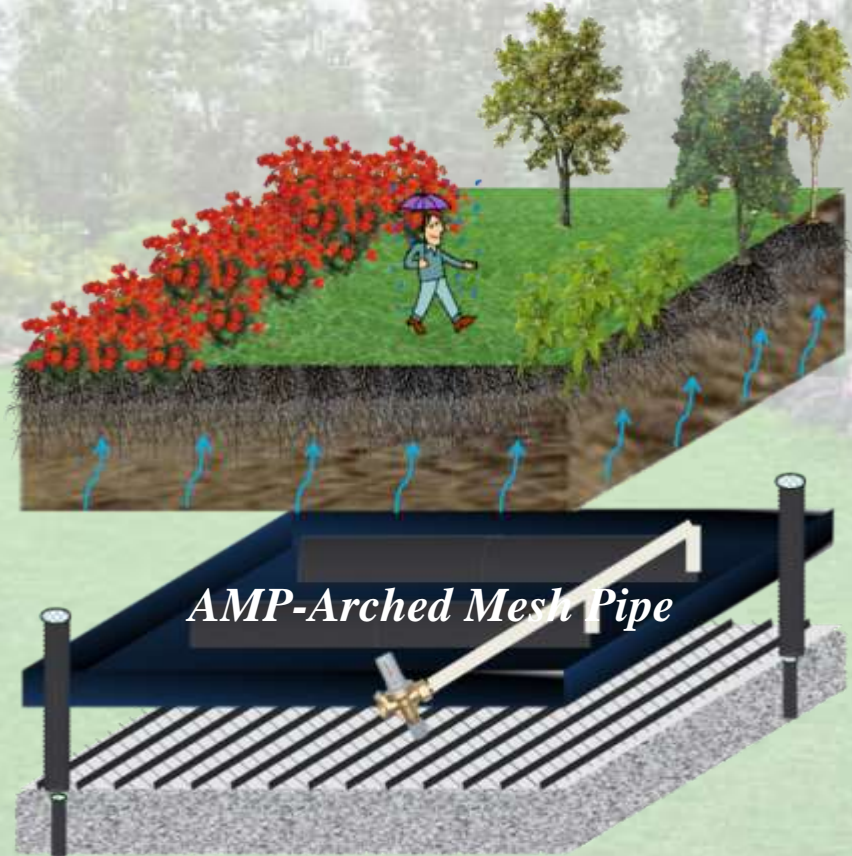
Blue Roof

Blue roofs are designed without vegetation for the primary purpose of detaining stormwater. Weirs at the roof drain inlets create temporary ponding and gradual release of stormwater.



Blue Roof

Green Roof + Blue Roof

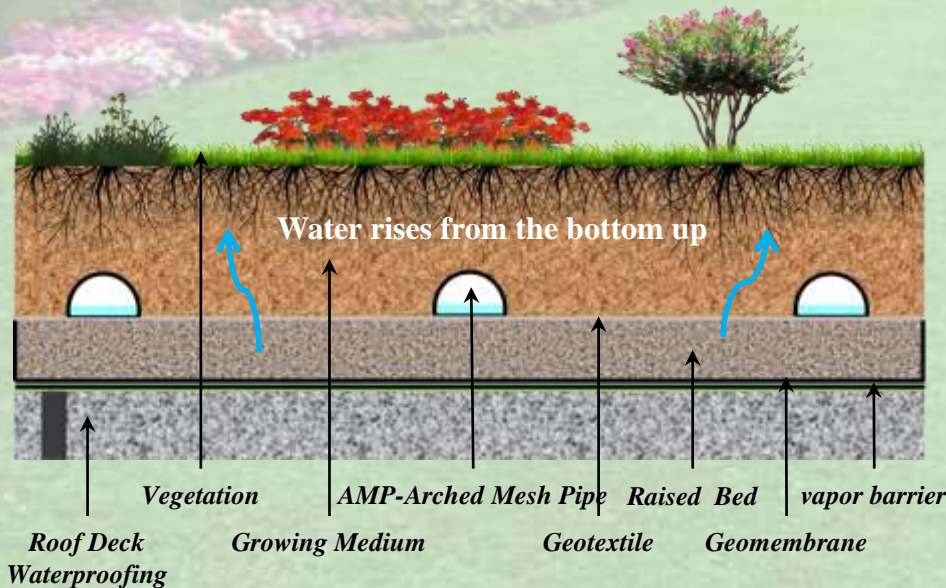


Advantages of Green Roof Raised Bed



Green Roof Sub-irrigated Raised Beds

- 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.
- Labor-efficient; they are self-watering, so it is possible to go away for two or three weeks without your garden bed drying out.
- Can be watered by a low pressure water system; it can be directly connected to a water tank without use of a pressure pump.
- They provide efficient and effective drainage during a large downpour.
- Large reservoir of water reduces the needs for frequent watering.
- Evaporation is reduced to a minimum with thick mulching
- Harder for weeds to establish as the mulch covered surface is drier.
- Soil life is improved. Nutrient is not lost to the subsoil when the garden bed is watered.
- No salting and evaporation; no minerals left behind in the soil.
- No permanent stale water; no mosquito larvae or anaerobic conditions.



Arched Mesh Pipe Subsurface Irrigation and Drainage System

Raised Bed of Green Roof Installation Illustration



Irrigation water moves through the AMP-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.



AMP-Arched Mesh Pipe Subsurface Irrigation and Drainage System

Raised Bed (Blue Roof) of Green Roof



Green Roof of Raised Bed

AMP-Arched Mesh Pipe System Provides Economical & Simple Installation and Maintenance