## Garden Roof® Rock Mineral Wool Assembly





To provide enhanced stormwater capabilities and lower assembly weights, Hydrotech offers its **Garden Roof**® **Rock Mineral Wool Assembly**. Originally created for its insulative qualities, rock mineral wool has long been used in the horticulture industry for growing plants. Its ability to store a great volume of water increases the stormwater capacity of a Garden Roof while keeping the overall assembly height thinner and the assembly weight to a minimum.

Rock mineral wool is a lightweight horticultural grade material made of long rock mineral wool fibers specially needled to form a compact and dimensionally stable felt. The product is made from virgin rock mineral fibers with no binders and has excellent water retention capacities.



Instagreen® Carpet
 LiteTop® Intensive Engineered Growing Media
 Rock Mineral Wool (number of layers as specified)
 Hydrodrain® Max
 DuPont™ Styrofoam™ Brand Insulation
 Root Stop®
 Hydrotech MM6125® FR Assembly
 Approved substrate



Consisting of entangled plastic fibers with a light fabric backing, Hydrodrain® Max is a unique product that resists crushing in the Garden Roof® Assembly and provides air to the plant roots into the lower portions of the assembly.

Hydrotech recommends its LiteTop® Intensive growing media in the

In all rock mineral wool assemblies, **Hydrodrain® Max** is required to provide a proper air layer over DuPont™ Styrofoam™ Brand Insulation or other substrates and to create an effective drainage pathway for excess

Rock mineral wool can be installed in multiple layers if needed to achieve higher stormwater capacities. In multiple layer rock mineral wool assemblies, the subsequent layers of rock wool are positioned at 90

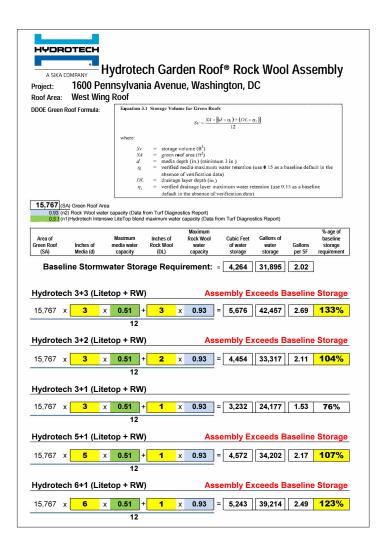
degrees to the layer below.

water to flow to the drains below.

Lightweight Sands Composts

Garden Roof® Rock Mineral Wool Assembly in order to provide the proper growing environment for the recommended InstaGreen® Carpet. Hydrotech's LiteTop® is a high performance growing media with very strong stormwater capacities. When combined with rock mineral wool, the total assembly is very effective in storing greater amounts of stormwater. Composed of three primary ingredients — lightweight aggregates, sand, and compost — LiteTop® has a long and proven history of providing the organic components and nutrients needed for optimum long-term plant growth on projects across the United States.

**LiteTop® Components** 



## **Stormwater Management with Rock Mineral Wool**

Hydrotech works with Architects, Landscape Architects and Civil Engineers when developing stormwater management plans using the Garden Roof® Assemblies. The Garden Roof® Rock Mineral Wool Assembly adds a dramatic new dimension to this aspect of green infrastructure.

Hydrotech is very familiar with the municipal codes and formulas that currently allow rock mineral wool as a BMP element. Hydrotech regularly tests its LiteTop® growing media blends to ensure that the blends are consistently high performance components in its Garden Roof® assembly.

Hydrotech has developed software that it uses to provide the engineering and design team with a range of potential assembly options to address specific stormwater needs. Hydrotech works with the civil engineer on stormwater storage needs and provides calculations based on these requirements. The goal is to provide the optimum assembly that meets the needs of the stormwater management plan, create the proper ballasting for the roof and support the enduring, thriving vegetation that provides benefits to the owner for years to come.

Hydrotech's Garden Roof® Rock Mineral Wool Assembly is fully warrantable; contact Hydrotech for information. Hydrotech has a full set of specifications and details available for all of its Garden Roof® assemblies.

Contact Hydrotech to discuss how the Garden Roof® Rock Mineral Wool Assembly will take your project to the next level in stormwater management.





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