



Green Technology for  
The Urban Environment

## Type I Roofmeadow® Flower Carpet Assembly

Our experience demonstrates that the most efficient designs for the vast majority of American green roofs can be derived from five **basic green roof types**. Roofscapes, Inc. has developed a Roofmeadow® green roof assembly that satisfies each of these types.

- Type I: Roofmeadow® *Flower Carpet* and *Roofrug*™
- Type II: Roofmeadow® *Aromatic Garden*
- Type III: Roofmeadow® *Savannah*
- Type IV: Roofmeadow® *Meadow*
- Type V: Roofmeadow® *Heath*

The selected assembly depends in part on project conditions, including climate, desired plant community, specific performance requirements, and load bearing capacity of the roof deck. All assemblies will include the following elements: 1) protection of the waterproofing membrane from root and biological attach, 2) protection of the waterproofing membrane from physical abuse and accident, 3) a base drainage layer, 3) a separation layer to prevent fine-grained engineered soils from fouling or clogging the drainage layer system, and 4) an engineered soil to support the vegetation.

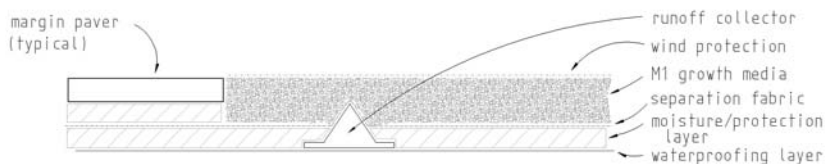
### Type I: The Roofmeadow® Flower Carpet

*Flower Carpets* are single layer assemblies in which engineered soil (a lightweight growth medium) is placed over a moisture retention mat (Roofscapes, Inc. **Moisture Management Mat**). These systems promote the uniform distribution of moisture over broad areas. Special attention to design ensures that water does not accumulate. Irrigation is not recommended in temperate climates; however, base capillary irrigation is occasionally used. The Type I assembly is ideal for substantially pitched roofs. Typical overall assembly thicknesses range from 2.5 to 3 inches (6 to 8 cm), but Type I assemblies up to 5" thick are appropriate for pitched roofs.

The profile of a Roofmeadow® *Flower Carpet* assembly is as follows: Wind Erosion Stabilization System ♦ Lightweight Growth/Drainage Medium ♦ Roofmeadow® Moisture Management Mat ♦ Slope Stabilization Systems (for pitched roofs) ♦ Root Barrier Membrane (when required) ♦ Waterproofing



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Type I Flower Carpet Roofmeadow Assembly Profile



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