



Barrett Company

GREEN ROOF ROOFSCAPES COMPARISON

Description

<u>Low Profile</u>	<u>High Profile</u>
<ul style="list-style-type: none"> - Plants less than 24" tall - Thin soil - Little or no irrigation - Plants are herbs, sedum, moss, wild flowers and grasses 	<ul style="list-style-type: none"> - Plants over 24" tall - Deep soil - Irrigation system included - Plants include shrubbery and decorative trees. - Plant friendly environment

Advantages

<u>Low Profile</u>	<u>High Profile</u>
<ul style="list-style-type: none"> - lightweight - suitable for large areas - suitable for roofs with 0-30 degree slope - low maintenance - often no need for irrigation and drainage systems - relatively little technical expertise needed - often suitable for retrofit projects - can leave vegetation to develop spontaneously - relatively inexpensive 	<ul style="list-style-type: none"> - greater diversity of plants and habitats. - improved insulation properties - can better simulate a wildlife garden on the ground - can be made very attractive - often visually accessible and visually appealing - diverse utilization of roof (i.e., for recreation, growing food, as open space.)

Disadvantages

<u>Low Profile</u>	<u>High Profile</u>
<ul style="list-style-type: none"> - limited choice of plants - usually no access for recreation or other uses - unattractive to some in winter 	<ul style="list-style-type: none"> - greater weight loading on roof - need for irrigation and drainage systems hence, greater need for energy, water, materials, etc. - higher cost - more complex systems and expertise required

Growing Median

<u>Low Profile</u>	<u>High Profile</u>
<ul style="list-style-type: none"> - Mineral based mix of sand, gravel, crushed brick, leica, peat, organic matter and soil - Soil depth varies from 2.5" to 6" - Weight starts at 21 lbs./SF shallowness of soil and desert like environment dictates low, hardy plant choice - Typically alpine or highland plants - Plants watered and fertilized only until they are established and after the first year - Maintenance consists of two to three visits per year for weeding, trimming and membrane inspection 	<ul style="list-style-type: none"> - Soil based growth medium - Soil depth varies from 48" up - Weight varies from 60 lbs./SF up - More complex variety of plant choices available - Design can be a combination of low and high profile - Landscape Architect or Horticulturist should provide maintenance recommendations

Soil

<u>Low Profile</u>	<u>High Profile</u>
<ul style="list-style-type: none"> - Typically 75% mineral and 25% organic soil mix - Layered application with organic soil applied over mineral soil 	<ul style="list-style-type: none"> - Typically 55% mineral 45% organic soil mix - Pre-mixed soil

It should be noted that these are guidelines and offer general information. Each roof is it's own environment. Each Green-roof is influenced by surrounding land contour, vegetation, water, soil conditions, adjacent buildings. These factors then impact the amount of sunlight which effects warmth or coolness, humidity and wind.