# Hydrotech Extensive Plants - Philadelphia, PA





## Achillea millefolium

**Common Yarrow** 

upright perennial

Native:

Height (in.): 18-24 Spread (in.): 18-24

Yes



USDA Hardiness Zones: 3-10

Sunset Zones: A1-A3, 1-24, 26, 28-45

Bloom Time



### Artemisia schmidtiana 'Silver Mound'

White Mound Artemisia

spreading perennial

Height (in.): 12 Spread (in.): 24 Native: No USDA Hardiness Zones: 4-9

Sunset Zones: A1-A3, 1-10, 14-24, 29-41

Bloom Time



#### Dianthus deltoides 'Brilliant'

**Maiden Pinks** 

upright perennial

Height (in.): 4-6
Spread (in.): 9-12
Native: No

USDA Hardiness Zones: 3-7

Sunset Zones: A2-A3, H1, 1-24, 30-45

Bloom Time

Foliage Color: Red-Green

Bloom Color: White



## Sedum album 'Murale'

**Murale White Stonecrop** 

spreading succulent

Height (in.): 3-5 Spread (in.): 10-12 Native: No USDA Hardiness Zones: 4a-8b

Sunset Zones: 1-24, 29-43

Water Needs:

Sun Exposure:

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## Sedum middendorfianum diffusu

Stonecrop

spreading succulent

Height (in.): 3-5 Spread (in.): 6-8 Native: No This is a partial list of plants for this city. Green

Please contact
Hydrotech @
Hydrotech @
312-337-4998
for the complete list.



## Sedum spurium 'John Creech' John Creech Two-Row Stonecrop

spreading succulent

Height (in.): 2-3
Spread (in.): 6-12
Native: No



# American Hydrotech Extensive Plants

American Hydrotech recognizes the need for a diverse and regionally appropriate plant palette on an Extensive Garden Roof®. Attached is a list of thoroughly researched plants specifically chosen for the climatic conditions of your project's location. These plants have been selected for their hardiness, drought tolerance, and aesthetic appeal.

All of the plants on this list are available through Hydrotech as 50 or 72 count plugs. These plants are sold as part of the Garden Roof Warranty. covering everything from watertightness through plant coverage (or thrive, depending on the plants selection) including removal and replacement of all overburden supplied by American Hydrotech.

Growing conditions on a rooftop can vary greatly from conditions for a landscape at grade. Each roof is unique, and some of the more challenging issues a designer should check for include:

- Adjacent buildings: Overhangs may cause rain shadows and result in dry areas or concentrate rain and flood areas. High heat and light can reflect from adjacent windows and bright surfaces causing hot spots where plants may struggle. A roof enclosed by other buildings may experience minimal air movement which will also raise the ambient temperature on the roof.
- Mechanical Units: Exhaust vents, HVAC units and other mechanical equipment on a roof may give off heat and create small, warmer microclimates on a roof.
- **Wind and Slope:** Erosion and scouring may be a concern on some taller or more exposed buildings or roofs with a slope of more than 3:12. Contact Hydrotech for project-specific wind uplift and erosion prevention solutions.
- **Sun/Shade:** Different plants require different amounts of sunlight per day in order to thrive. If shade is a concern, it's best to conduct a sun/shade study for the building in order to determine exactly how many hours of sunlight different areas of the roof will receive. However, it's also important to remember that due to the potential for new construction adjacent to the site, the amount of direct sunlight the roof receives could change in the future. It's best to include a wide variety of plants in the original plans so the roof can adapt and change over time. If the sunlight levels change drastically the roof may need to be replanted with very shade tolerant varieties.

Other issues a designer should consider when planning for an Extensive Garden Roof include:

- Sufficient Water: As in any at-grade landscape, vegetated roofs need water at installation and during establishment. Vegetated roofs should have close access to sufficient water from hose bibs and irrigation systems during these times. Contact Hydrotech for further information on requirements for sufficient water.
- Soil Depths: In cooler to temperate regions minimum soil depths can be as low as 3-4". In hotter regions, the minimum soil depths increase to 5-6" and permanent irrigation may be a requirement.
- Species Diversity: Monocultures in the landscape are never a good idea. On a Garden Roof, a plant palette should include a wide and diverse blend of at least **four (4)** different species to ensure good plant coverage should one species begin to struggle.
- **Plant Evolution:** Whether planted with cuttings, plugs, or Instagreen Sedum Carpet or Sedum Tile, the appearance of the roof will change both seasonally and over an extended period of time. Seasonal variations will include color changes and on some deciduous species, the loss of foliage in the winter. As the roof matures and adapts to climatic and situational conditions, some species may become more dominant than others it certain areas of the roof.
- **Maintenance**: All vegetated roofs require some level of maintenance for long-term success. In order to keep the plant warranty valid, Hydrotech's Installation Manual and Maintenance Requirements must be followed.

Please contact American Hydrotech's Garden Roof Department for additional details and assistance in interpreting this plant material list.

Key to symbols used in the Plant List:

Water Needs:

Very low water needs

Low water needs

Moderate water needs

Sun

Sun Exposure:



Part Shade

Shade



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