

Vegetated Roofs Construction Checklist

This checklist has been developed for BMPs designed in accordance with the Delaware Sediment and Stormwater Program's Post Construction Stormwater BMP Standards and Specifications. Submit interim versions of this construction checklist to the approval agency weekly with the Certified Construction Reviewer report. Submit the final completed checklist with the PCVD.

PROJECT INFORMATION

Project Name/BMP Name: _____

Project Approval Number: _____ NOI number: _____

Location: _____

Contractor: _____

Construction Reviewer: _____

Supervising P.E.: _____

Vegetated Roof Variant

4-A Extensive Vegetated Roof

4-B Intensive Vegetated Roof

For each checklist item, enter in the blank the date (MM/DD/YY) the item is completed and verified by the construction reviewer. If an item is not applicable, enter "N/A" in the blank for that checklist item.

I. Pre-Construction

A. _____ Vegetated roof field meeting with responsible person and person completing construction checklist.

B. _____ Materials on-site and dimensions and properties checked and confirmed to be in accordance with the approved plan. ***Submit materials invoice or delivery tickets to approval agency as part of PCVD for the following items:***

i. _____ Waterproof Membrane

ii. _____ Protection Layer

iii. _____ Insulation Layer

iv. _____ Root Barrier

v. _____ Drainage Layer

vi. _____ Filter Fabric

vii. _____ Growth Media

viii. _____ Erosion Blanket

ix. _____ Roof drains

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- x. _____ Engineered mineral soil
- xi. _____ Seepage collection system, *if applicable*
- xii. _____ Pre-grown vegetated mats or sod, *if applicable*
- xiii. _____ Drainage collar, *if applicable*
- xiv. _____ Protective flashing, *if applicable*
- xv. _____ Other; list: _____

II. Structural Components

- A. _____ A permanent source of water (e.g., hydrant, hose-bib) is provided to all vegetated roof areas.
- B. _____ A minimum 1-foot wide vegetation free zone is provided along the perimeter of all vegetated roofs and around all roof penetrations.
- C. _____ Roof deck slope is in accordance with the approved plan.
- D. _____ Drainage layer and drainage system are installed in accordance with approved plan.
- E. _____ Emergency drains or emergency scuppers have inverts in accordance with the approved plan.
- F. _____ Waterproof membrane installed in accordance with the approved plan.
- G. _____ Root barrier installed in accordance with the approved plan.
- H. _____ Confirm that the watertightness test has been conducted with at least 3 inches of water over the membrane for at least 72 hours.
- I. _____ Photo documentation of construction of structural components taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

III. Growth Media

- A. _____ Growth media was mixed prior to delivery.
- B. _____ Media has been protected against compaction while applying and spreading.
- C. _____ Media layer depth placed in accordance with the approved plans.
- D. _____ Phosphorus content of growth media does not exceed 200 ppm dry weight (Mehlich III).
- E. _____ If fertilizers or amendments are used, provide the soil test justification.
- F. _____ Upper 1 inch of growth media profile is engineered mineral soil.
- G. _____ Photo documentation of growth media taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

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IV. Vegetation

A. _____ Areas to be vegetated have been completed in accordance with the approved plans.

Submit planting tags to approval agency as part of PCVD.

B. _____ Vegetation was watered immediately after planting.

C. _____ Photo documentation of landscaping components taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

V. Maintenance Access

A. _____ Maintenance access in accordance with the approved plans.

VI. Post Construction Verification

Owner shall submit post construction verification documents to demonstrate that the vegetated roof practice has been constructed within allowable tolerances in accordance with the Approved Sediment and Stormwater Management Plan and accepted by the approving agency.

A. _____ Growth media thickness within 15% of design thickness.

B. _____ Plant density no less than specified on the approved planting plan.

C. _____ The vegetated roof is no less than 66% of the total contributing drainage area.

VII. BMP Acceptance

A. _____ Final BMP construction review complete.

B. _____ All BMP punch list items addressed.

C. _____ As-built survey.

D. _____ PCVD submitted to approval agency for review and approval. Submit the following pieces of PCVD documentation to the approval agency:

- Materials invoice or delivery tickets
- Photo documentation
- Soil test report
- Lime, fertilizer, and seed tickets
- As-built survey
- Final, completed BMP Construction Checklist