
WSUD – Planter Box C120.10



DESIGN STATEMENT

A WSUD planter box is a miniature raingarden that treats stormwater by infiltrating runoff through a vegetated soil/sand filter which is contained above-ground in a planter box. Due to their significantly smaller scale, they are usually directly connected to a downpipe.

The design must have drainage that allows for the then treated water to be returned to the stormwater system.

A submerged zone is recommended to ensure plants have adequate access to water during drier periods.

APPLICABLE LOCATION

Wherever a downpipe is present which is currently diverting untreated stormwater to the stormwater system within Merri-Bek municipality.

MAINTENANCE

Key design considerations for easily maintainable WSUD planter boxes include:

- Ensuring easy access to the planter box when installed
- Using a flushing point for drainage ag.

For typical ongoing maintenance requirements refer to WSUD Design Package, Section 8. Maintenance Checklist.

SIZING

Like other bio-retention systems, WSUD planter boxes are typically sized to have a filter area capturing 2% of the upstream impervious catchment. As most 90mm downpipes serve ~40m² of roof area, one 1.0m x 0.4m WSUD planter box can adequately treat one 90mm downpipe.

LEVELS

As with other passive WSUD assets, determining the relative levels of key elements of the catchment and the system are crucial. See cross sections for more detail.

GENERAL NOTE

The standard details shown on this drawing are typical only. These details may need to be reconfigured to suit site specific conditions.

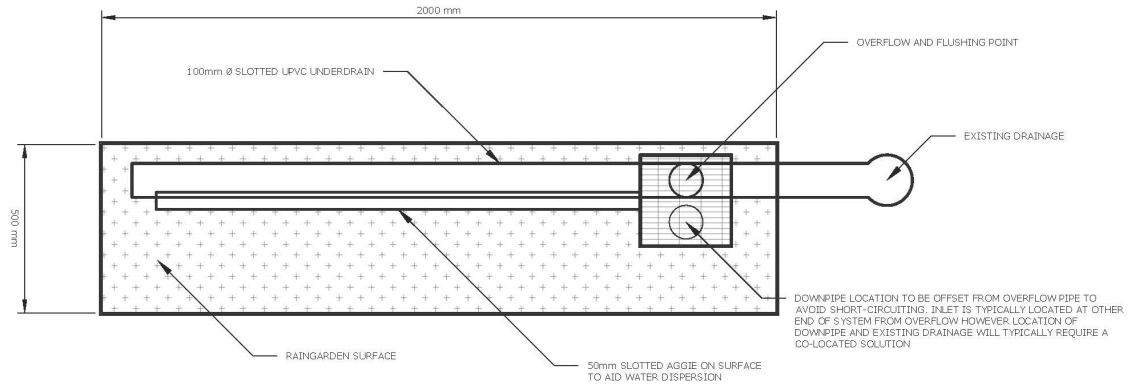
CONSTRUCTION SUPERVISION

The WSUD planter box is a pre-constructed unit so will not require any construction hold points. However an inspection upon installation is required to ensure it is appropriately connected to existing drainage.

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**C120.10 PLANTER BOX
PLAN VIEW**

1:20



**C120.10 PLANTER BOX
CROSS SECTION**

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