

Installation

[Updated 12 May 2010]

PEDESTRIAN ONLY PAVEMENTS

LINED SYSTEMS – HARVESTING / DISCHARGE

Assumptions

- Site permeability considered to be poor (based on soil classification data); and/or
- Requirement to collect and store for non-potable use; and
- Preference for discharge into existing drainage systems.

Excavate to design depth.

Prepare and trim subgrade.

Allow 0.5% gradient on both sides for drainage pipe positions to allow full drainage.

Install at least 2 edge restraints (length and breadth).

Lay impermeable lining.

If specified, place subbase material (generally 20-40mm no-fines crushed rock) to depth of 50mm in drainage pipe positions.

Install 100mm diameter drainage pipes (slotted pipes or perforated corrugated pipe) at 750mm centres min. 0.5% gradient or as otherwise specified.

Install standpipes for flushing and seal impermeable lining around drainage pipe outlets.

Cover with remaining subbase or base course material (generally 5-20mm no-fines crushed rock) and consolidate (compact with flat plate vibrator) in layers of no more than 100mm.

If specified, place open knitted shade cloth or other suitable nonwoven geotextile over base course, stretch and secure.

Place and level bedding material (generally 2-5mm or 5mm single size no-fines crushed rock) to a depth of 40mm. A 5mm single size basalt layer will generally reduce by 10mm after compaction of pavers.

Test position HydroSTON pavers (generally butted) in specified pattern to minimize cutting and wastage. In some circumstances, remaining edge restraints can be installed when main body of pavement completed.

Commence placement of full paving units using closely arranged parallel string lines, aligning and leveling as laying proceeds.

After laying full units, cut part units and place and position to complete pavement cover.

Sweep 1-3mm HydroCon Joint Filler into any gaps between pavers and between pavers and edge restraints.

Compact pavement cover with flat rubber plated vibrator.

Refill any gaps with joint filler, sweep pavement cover and temporarily protect with PVC sheeting to prevent works contamination.