Installation

[Updated 12 May 2010]

VEHICLE TRAFFIC PAVEMENTS
LINED SYSTEMS – HARVESTING / DISCHARGE
Assumptions ▪ Site permeability poor; 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 edge restraints.
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 bedding material (generally 2-5mm or 5mm single size no-fines crushed rock) to achieve depth of 30mm after leveling and compaction.
Test position HydroSTON pavers (generally butted) in specified pattern to minimize cutting and wastage.
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.