

Reference: MM-PP-03

SUDS Element:
Permeable Paved Parking Courtyard

Function Served:
Permeable paving acting as drainage, conveyance, allowing infiltration and functioning as attenuation

Features:
80mm permeable block paviour, bedding material, tarmac running surface (punctured). Including perforated pipework and catch pits for drain down and conveyance and flow control chambers to attenuate flow.

Owned:
Private Residents

Location:
Refer to drawing

Parking courtyards are associated with the Private Residential Dwellings that the driveway serves

General Notes:
Maintenance strategy should be reviewed on a regular basis and performance of the maintenance activities assessed.
Reference should be made to recognised industry standards in undertaking maintenance.
Where activities are required outside ownership permission must be sought from relevant party.
Refer to section 22 of CIRIA C697 for discussion on maintenance techniques.
Requirement for reporting of inspections to be confirmed by responsible party. May be required as evidence of activities to prove activity as part of funding arrangements.

Routine Maintenance (typically monthly):

Maintenance Activity	Comments	Frequency
Litter and debris removal		Monthly
Grass cutting of adjacent landscaped areas	All cuttings to be removed from area	Monthly (during growing season) or as required
Inspect structures for evidence of poor operation		Monthly

Occasional Maintenance (typically bi-annually):

Maintenance Activity	Comments	Frequency
Inspect inlet catch pit and pre-treatment components for silt accumulation	Includes visual inspection of inlet chamber, forebay and inspection of flow control.	Half yearly
Visual inspection catch-pits, linking pipework etc for evidence of physical damage	Visual inspection from surface only, CCTV survey required if evidence present of structural issues.	Half yearly
Check mechanical devices within control chambers	Includes inspection of orifice plate for signs of damage	Half yearly
Vacuuming of pavement surface	Joints in paving become silted over time. Inspect visually. Undertake maintenance where joints are greater than 50% silted.	Half yearly or more frequently if required

Annual Activities:

Maintenance Activity	Comments	Frequency
Remove sediment from catch-pits	Remove accumulated silt with suction tanker when 50% full.	Annual/as required

Infrequent/Corrective Activities:

Maintenance Activity	Comments	Frequency
Repair damage to paving	Damage may include rutting or local failure of structure	As required
Repair/rehabilitation of inlets and outlets.		As required
Rehabilitation following a pollution event	Pollution includes potential sealants of joints	As required
Repair/replace geotextile base.	If evidence from CCTV suggests a direct source of silt is present intrusive works will be required to the geotextile	As required
Rehabilitate sub-base or tarmac	If, following vacuuming, the structure continues to perform below standard structural overhaul may be required. Tarmac structure may require fresh perforations or stone may require reprocessing to reinstate original void ratio.	As required
Rehabilitate Jointing Material	Following any maintenance activity if jointing material is observed to be lost this is to be replaced and brushed into the joints.	As required