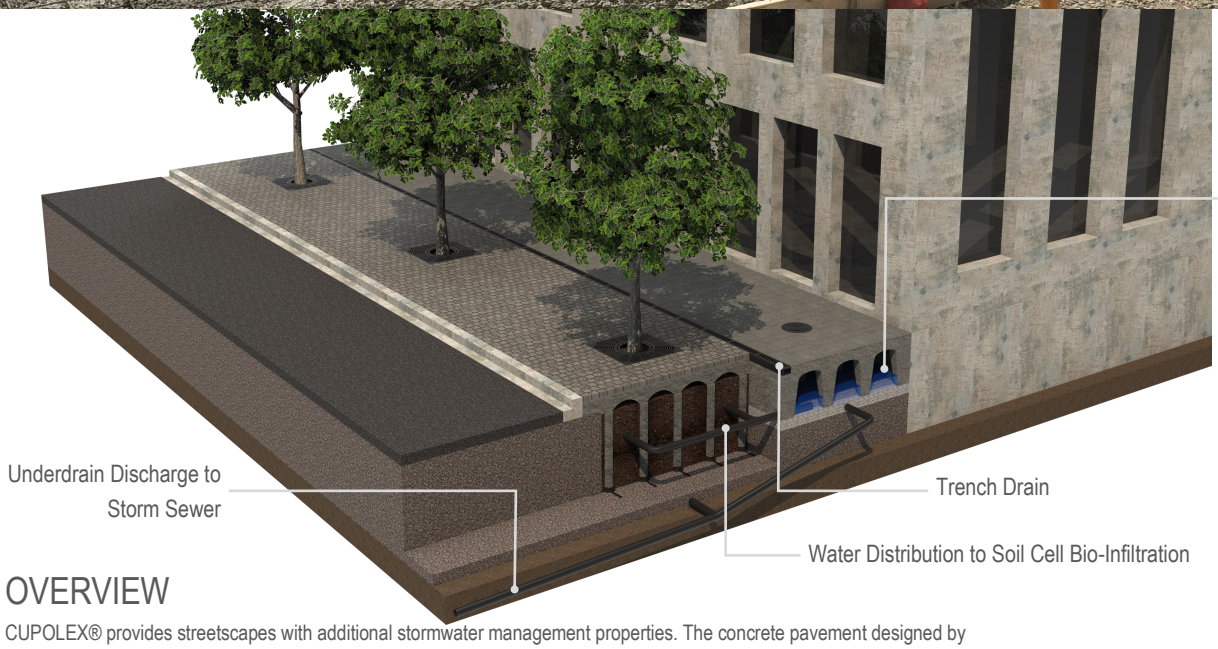
CUPOLEX® CONCRETE FORMING

STREETSCAPES



OVERVIEW

CUPOLEX® provides streetscapes with additional stormwater management properties. The concrete pavement designed by CUPOLEX® has voids underneath that are used to store stormwater and planting media. Due to its unique dome shape, the concrete is supported by a compacted base and does not rest on the planting medium. Stormwater is treated naturally through the soil. From there, stormwater can infiltrate to maintain a zero discharge site or be connected to a city sewer at a controlled rate.

FEATURES

- Combines the advantages of our soil cell system with stormwater management
- Discharged, filtered water can either infiltrate to replenish aquifers or be collected by weeping tiles to city sewers.
- Catchbasins, area drains or trench drains transfer surface run-off to the void below.
- Isolator rows can be incorporated for pre-treatment.
- Void depths range from 8” (200mm) to 96” (2,500mm)
- Concrete can be used as finished surface or topped with unit pavers
- CUPOLEX® concrete forming manufactured to ISO 9001:2015 high quality standards
- Complete construction documents with stamped and sealed design drawings provided by CUPOLEX® licenced PEs

ADVANTAGES

- Retained water can be used for irrigation during dry periods
- Stormwater is naturally treated through planting medium during storm events
- Removes the need for a separate buried stormwater capture chamber.
- High load-bearing concrete design that can exceed HS-20-44 full truck load plus impact
- Custom designed to any layout
- Streamlined installation supporting required work loads
- Modular, quick and easy installation of formwork
- Maximum water storage volume up to 90% of the void depth without soil
- Uncompacted, ventilated planting soil for healthy trees
- Tree roots do not penetrate the pavement because it is structurally independent of the planting medium

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