



# Podium Slab Waterproofing

### SYSTEM FAMILY

Applied waterproofing / suspended deck

### TYPE

Buried deck membrane under landscaping / traffic

### NOMINAL BUILD

per system (2-ply / reinforced)

## 1. SCOPE & SYSTEM DESCRIPTION

This ADS describes POLYZEN's method for **podium-slab waterproofing** — a suspended slab over occupied / parking space, waterproofed on the topside with a buried, un-inspectable membrane beneath landscaping, paving or traffic.

Delivered as a **POLYZEN Applied System**. Because the membrane is buried and cannot be re-accessed, **falls, drainage, root protection and a one-shot flood test** dominate the method.

## 2. SUBSTRATE REQUIREMENTS

- Cured, dry slab; laitance and curing compound removed; shot-blast / grind for liquid systems.
- Coves formed at all upstands; falls created before the membrane.
- Movement joints and planter zones identified and detailed.

## 3. SURFACE PREPARATION

- Prepare and prime the slab per the selected system; form fillets at walls, planters and thresholds.
- Create the designed falls (screed-to-falls) before waterproofing.
- Detail drains with puddle flanges and box out penetrations.

## 4. ENVIRONMENTAL CONDITIONS

- Apply within the selected system's limits; keep bituminous / PU systems dry.
- Protect the membrane from following trades until the protection layer is installed.

## 5. MATERIALS

**Materials:** delivered as a **POLYZEN Applied System** using a client-approved buried-deck waterproofing system — e.g. APP/SBS two-ply reinforced bitumen, liquid PU / PMMA (seamless, for planters and complex geometry), hot-applied rubberised bitumen (heavy-duty) or reinforced PMC base — with a mandatory root-barrier membrane under planted areas, selected to suit the project specification and standards. Exact products, consumption, thickness and cure times are per the **selected material's data sheet**. No POLYZEN branded product is required for this system.

## 6. MATERIALS PREPARATION / MIXING

- Prepare the selected material per its data sheet; mix full units and respect working time.

## 7. APPLICATION PROCEDURE

- **Screed to falls:** establish falls first, then prime.
- **Base membrane + detailing:** apply the base membrane and detail all upstands (min ~150 mm), drains, planter tanking and movement joints (bellows / reinforced band — never rigid).
- **Second layer / reinforcement:** apply the second ply / reinforcement and the **root barrier** under planted zones.

- **Flood test → protection → overburden:** flood-test, then install a protection board and drainage cell before the growing medium / pavers / traffic course.

## 8. COVERAGE, LAYERS & FALLS

- Layers, laps and thickness per the selected system's data sheet.
- Falls  $\geq 1\%$  (1:80-1:100), designed for  $\sim 75$  mm/hr rainfall; two-tier drainage with a drainage cell / geocomposite at membrane level.
- Reference standards: BS 8102, BS 6229 / 8217, IS 3067; ref. ASTM D5957 / D7877 / D7240.

## 9. CURING & RETURN TO SERVICE

- Liquids: recoat  $\sim 24-48$  h,  $\sim 7$  days full cure.
- Overburden placed only after a successful flood test and protection — per the selected system's data sheet.

## 10. FINISHING, PROTECTION & OVERLAY

- Top-down build: growing medium / pavers → filter geotextile → drainage cell → root barrier → protection board → membrane → screed-to-falls → slab.
- Planters tanked internally with root barrier and base drainage; thresholds stepped above the finished level.

## 11. TESTING & QC CHECKPOINTS

- **Flood / ponding test 24-48 h BEFORE overburden** — the membrane is buried permanently, so this is the one opportunity.
- Holiday / spark ELD; check adhesion, DFT and lap / seam integrity.

## 12. DO'S & DON'TS

### Do

- Verify falls before waterproofing.
- Tank planters and install root barriers.
- Install a drainage cell so water never sits on the membrane.
- Flood-test before covering.

### Don't

- Don't cover the membrane before a successful flood test.
- Don't bridge movement joints rigidly.
- Don't allow back-falls or ponding.
- Don't skip the protection layer under overburden / traffic.

## 13. MAINTENANCE

- Keep deck drains, outlets and drainage cells clear.
- Inspect planter tanking and thresholds periodically.
- Manage landscaping so roots and loads do not damage the buried system.

## 14. HEALTH, SAFETY & ENVIRONMENT

- Follow the selected material's SDS — torch-applied bitumen (fire), PU / PMMA (isocyanate / peroxide) hazards.
- Enforce edge protection and load management on suspended decks; provide ventilation and fire watch for hot works.
- Control spills and prevent uncured material entering drains.

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*times are governed by the selected material's data sheet and the project specification. Figures shown are typical/reference values from common Indian and international practice (IS/BS/ASTM). POLYZEN reserves the right to revise this document; the latest version supersedes all previous.*