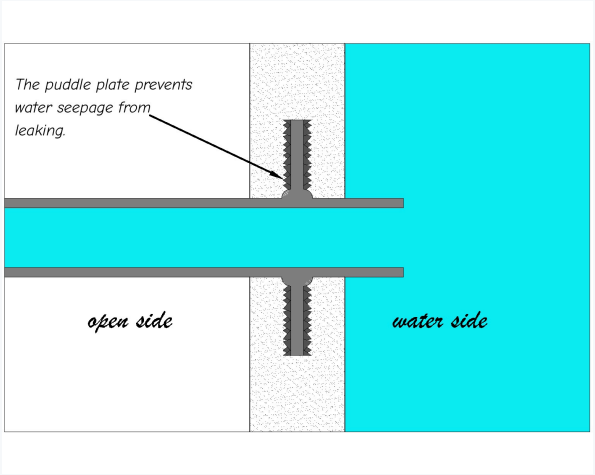
Installation Guide

Puddle Flange Installation Guide

General installation method for RCC walls, slabs, tanks, sumps and pipe penetrations

This guide provides a general installation sequence for puddle flanges used in pipe penetrations through RCC structures. Actual execution shall follow the approved project drawing, BOQ, site method statement and engineer / consultant instructions.

Installation Concept



Concept diagram: pipe passes through wall with puddle flange embedded in concrete.

A puddle flange is normally positioned before concreting so the puddle plate becomes embedded inside the RCC wall, tank, sump or slab.

The flange should be aligned with reinforcement and shuttering. The concrete should fully surround the plate without leaving voids around the pipe penetration.

Pre-Installation Checks

- Confirm material: PVC / UPVC / CPVC / GI / MS as per BOQ or drawing.
- Confirm pipe size, puddle plate OD, pipe length, wall or slab thickness and orientation.
- Check product for cracks, visible damage, deformation or blocked opening.
- Confirm exact location with site engineer before tying to reinforcement.
- Ensure shuttering and reinforcement allow proper positioning before concrete pour.

Typical Installation Sequence

1. Mark the pipe penetration location as per approved drawing.
2. Place the puddle flange in the correct position and tie / secure it with reinforcement bars as required.
3. Align the pipe axis and puddle plate with shuttering, wall thickness and service line direction.
4. Close shuttering on both sides and ensure the flange is not displaced.
5. Cast concrete carefully around the puddle plate and pipe penetration area.
6. Avoid honeycombing, voids or movement around the puddle flange during concreting.
7. After curing, remove shuttering and complete waterproofing, plastering, tile fixing or finishing as per site requirement.
8. Inspect the pipe penetration area before commissioning or backfilling.

Puddle flange positioned with reinforcement before concreting.

Shuttering and RCC casting coordination around pipe penetration.

Quality Control Points

Check Point	Acceptance / Verification
Size and material	Matches PO / BOQ / approved drawing
Location and alignment	As marked and approved by site engineer
Puddle plate embedment	Plate placed within concrete section without displacement
Concrete around pipe	No visible honeycombing or large voids
Waterproofing / finishing	Completed as per site method and consultant instruction
Photo record	Before and after concreting photos where required

Safety and Handling

- Use PPE as per site safety plan.
- Handle plastic components carefully to avoid cracks or deformation.
- Do not install visibly damaged components.
- Protect the product from impact, heavy loading, direct fire or excessive heat before installation.
- Follow site safety instruction during shuttering, reinforcement and concreting work.

Engineering Note

This is a general guide only. Final installation method, dimensions, waterproofing treatment and site acceptance criteria shall be approved by the project engineer / consultant.

For installation clarification: send drawing / BOQ / site photo on WhatsApp +91 8667 408 543