

# Dseal Bellow-Grade System

Below-Grade · Waterproof

## — PRODUCT OVERVIEW

The Bellow-Grade System is a below-grade expansion joint built around a flexible bellow membrane held by robust retention, forming a continuous waterproof barrier where buried structures move against each other. It is installed in foundations, tunnels, basements and other subterranean structures, sealing the joint against ground water and soil pressure while still allowing the structure to expand, contract and settle. Engineered to be watertight and flexible, the system keeps its seal under hydrostatic pressure and structural movement common below ground. The bellow membrane flexes with the joint while the retention keeps it firmly anchored, delivering durable, leak-free performance in demanding underground environments.

## — TECHNICAL SPECIFICATIONS

Type	Below-grade expansion joint
Performance	Watertight + flexible
Application	Foundations, tunnels, basements

## — DIMENSIONS

Joint type	Below-grade expansion joint
Sizing	Supplied to joint width and project detail
Position	Foundations, tunnels and subterranean structures

## — MATERIALS

Membrane	Flexible bellow membrane
Retention	Robust anchoring retention system

## — PERFORMANCE DATA

Watertightness	Continuous waterproof barrier
Flexibility	Accommodates movement and settlement
Loading	Withstands hydrostatic pressure

## — INSTALLATION GUIDELINES

1. Prepare and clean the joint faces, removing soil, laitance and loose material.
2. Confirm the joint width and align the bellow membrane along the joint.
3. Position the flexible bellow centrally to span the moving joint.
4. Fix the retention system to anchor the membrane firmly to the substrate.
5. Ensure the membrane forms a continuous, unbroken waterproof line.
6. Seal all laps, terminations and transitions for full watertight continuity.
7. Inspect and, where required, test the joint to confirm watertight performance.

## — COMPLIANCE & CERTIFICATIONS

- Manufactured under ISO 9001:2015 quality management
- ISO 14001:2015 environmental management certified
- ISO 45001:2018 occupational health and safety certified
- Made in India by Dhawan Associates