
DSEAL

BUILDING EXPANSION JOINT SYSTEMS

The art of controlled movement

Product Catalogue

Expansion joint systems, covers and seals – engineered to absorb thermal movement, seismic activity, traffic and settlement in the world's most demanding structures.

34 SYSTEMS · 6 CATEGORIES · SINCE 1998

Dseal Solutions Private Limited

A flagship brand of Dhawan Associates · Ghaziabad, India · dseal.in

WELCOME

Every building moves. Our work is to move with it — safely.

Heat, cold, wind, traffic, seismic activity and the slow settlement of the ground all make a structure expand, contract and shift. Left unmanaged, that movement cracks finishes, opens leaks and, over time, damages the structure itself.

An expansion joint is the engineered gap that lets a building breathe. Dseal designs, manufactures and supplies the covers, profiles and seals that bridge that gap — keeping floors flush, walls clean, roofs watertight and structures protected for decades.

This catalogue presents the complete Dseal range: thirty-four systems across six families, each engineered for a specific movement, traffic and environment. Whatever your joint, there is a Dseal system for it — and an engineer ready to help you specify it.

From a single car-park deck to an airport, a metro viaduct or a high-rise tower, Dseal joints are chosen by architects, consultants and contractors who cannot afford for movement to become a problem.

“We build every joint as though it were going into our own project.”

ABOUT DSEAL

India's specialist in building expansion

joint

Private Limited engineers and manufactures high-performance expansion joint systems for buildings and infrastructure. We combine precision aluminium and steel fabrication with advanced elastomer technology to solve one problem exceptionally well – accommodating movement without compromising strength, safety or finish.



In-house engineering

Bespoke joint solutions designed to your exact width, movement and load.

Aircraft-grade metal

ASTM 6063 T6 aluminium and stainless steel 304 / 316 profiles.

Advanced seals

EPDM, TPR, TPV, nitrile and chloroprene – weather, UV and chemical resistant.

Pan-India delivery

Serving architects, consultants and contractors across the country.

One partner, the complete range

- **Floor & Parking** – 16 systems
- **Wall & Facade** – 5 systems
- **Roof** – 2 systems
- **Seismic** – 4 systems
- **Compression Seals** – 5 systems
- **Below-grade & Accessories** – 2 systems

Built to a standard, not to a price

Quality in an expansion joint is invisible until it fails. That is why every Dseal system is engineered, made and checked to hold its performance for the life of the structure – through millions of movement cycles, heavy wheel loads and decades of weather.

9001

Quality Management (ISO 9001:2015)

14001

Environmental Management (ISO 14001:2015)

45001

Occupational Health & Safety (ISO 45001:2018)

6063 T6

ASTM aircraft-grade aluminium, to ASTM-B221

Materials that endure

Profiles in ASTM 6063 T6 aluminium and 304 / 316 stainless steel; seals in EPDM, TPR, TPV, nitrile and chloroprene. Every material is chosen for the movement, traffic, chemistry and climate it will meet – not for what is cheapest to buy.

Engineered, then verified

Force-compression behaviour, movement range and load capacity are worked out for each project. Fabrication is controlled and finished parts are inspected before dispatch, so what arrives on site performs as specified.

Designed around your joint

Standard sizes cover most projects; where they do not, our engineers design a bespoke profile. Tell us the joint width, movement, traffic and environment, and we recommend – or create – the right system.

HERITAGE

A house of engineering, since 1998

Dseal is a flagship brand of Dhawan Associates — a group that has served India’s construction and infrastructure sector since 1998. What began as a specialist supplier has grown, over more than twenty-five years, into a manufacturer trusted on landmark projects across the country.

That heritage shows up in the details that matter: honest engineering, materials that are what we say they are, and a team that stands behind every metre supplied. We are large enough to deliver at scale, and close enough to answer the phone.

FROM THE FOUNDER

“For more than two decades, our purpose has been simple: to keep buildings moving safely. Every joint we make carries that responsibility — for the structure, the finish and the people who use it.”

M.K. Dhawan

Founder, Dhawan Associates

What we stand for

01

Integrity

The material and performance we promise is the material and performance you receive.

02

Engineering

Every recommendation is grounded in movement, load and environment — never guesswork.

03

Longevity

We build for the life of the structure, not the length of the warranty.

04

Service

Real people, real drawings, real answers — before, during and after the sale.

Everything you need, a click away

The catalogue in your hands is one part of a larger toolkit. Online, you can specify, compare, calculate and request – with an AI product advisor and live engineers to help.

dseal.in

THE PRODUCT & SPECIFICATION SITE

Full product range, downloadable TDS datasheets, an AI product advisor, engineering calculators and instant online quotation requests.

dseal.org

THE KNOWLEDGE HUB

An expansion-joint encyclopedia and cross-reference tool – understand joint types, compare systems and find the Dseal equivalent for any specification.

dhawanassociates.co.in

THE PARENT GROUP

Dhawan Associates – the engineering house behind Dseal, and its wider portfolio of building products and solutions.

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Email

dhawan@mkdhawan.com

Get a quote

dseal.in/request-a-quote

Six families, thirty-four systems

01

Floor & Parking

Mechanical floor & parking systems · 16 systems

Aluminium and all-metal joint covers for medium-to-heavy traffic – from car parks and plazas to industrial and logistics floors carrying fork-lifts and HGVs.

02

Wall & Facade

Architectural wall & facade covers · 5 systems

Wall-to-wall and facade expansion covers with concealed fixings and weather-resistant seals, presenting a clean architectural line across building movement joints.

03

Roof

Watertight roof systems · 2 systems

Roof expansion joints that handle thermal movement and weather for joint widths up to 500 mm, with snow-load options and UV-stable seals.

04

Seismic

Large-movement seismic systems · 4 systems

Seismic joints engineered to absorb large, multi-directional movement in earthquake-prone structures, with integral water barriers and cap-seal solutions for bridges and tunnels.

05

Compression Seals

EPDM & PU compression seals · 5 systems

Flexible compression seals for horizontal and vertical movement joints – unaffected by water, oil or chemicals, for gaps up to 120 mm.

06

Below-grade & Accessories

Foundations, tunnels & water management · 2 systems

Watertight below-grade joints and water-management accessories for foundations, tunnels and subterranean structures.

Floor & Parking

Aluminium and all-metal joint covers for medium-to-heavy traffic – from car parks and plazas to industrial and logistics floors carrying fork-lifts and HGVs.



ParkGuard

FLOOR & PARKING · MECHANICAL JOINT

Heavy-duty parking expansion joint system engineered for high-traffic parking structures, built from ASTM 6063 T6 aluminium with durable EPDM/nitrile seals.

Joint gap	50 mm – 65 mm
Traffic	Medium-heavy (pneumatic up to 90 kN)
Side strips	Galvanised / stainless steel, pre-drilled, 3
Insert	Nitrile, 15 m roll, black or grey
Material	ASTM 6063 T6 aluminium



DriveFlex

FLOOR & PARKING · MECHANICAL JOINT

Mechanical floor expansion joint for interior carpark levels, access ramps and slow vehicle traffic – flexible, hard-wearing and easy to maintain.

Joint gap	100 mm & 150 mm
Material	Aluminium + nitrile
Versions	Flat / angle
Side strips	Pre-drilled, 3 m
Insert	Nitrile, 15 m roll

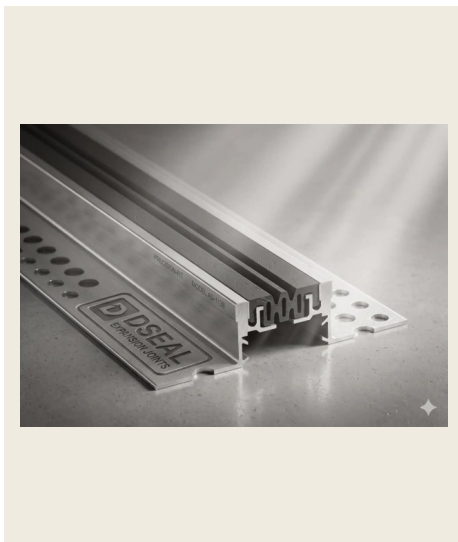


GatewaySeal

FLOOR SEAL · GFT SERIES

Floor expansion joint (GFT series) for a 60 mm gap and 35 mm height – pre-drilled aluminium angles with an interchangeable nitrile insert.

Joint gap	Up to 60 mm
Height	35 mm
Material	Aluminium + nitrile
Colours	Black / grey / RAL
Versions	Flat / angle



DuraEdge Seal

MECHANICAL FLOOR JOINT · JDH 5.02

Mechanical floor expansion joint in pre-drilled aluminium with an interchangeable nitrile insert – for all floor finishes, joint gaps 20–60 mm and movement up to ± 10 mm.

Reference	JDH 5.02
Joint gap (W)	20 / 30 / 40 / 50 / 60 mm
Movement	± 3 mm to ± 10 mm
Materials	Aluminium side plates + nitrile insert
Insert colours	Black / grey
Standard length	3 m



LoadMaster

HEAVY LOAD · FLOOR-TO-FLOOR

Cost-effective heavy-load floor-to-floor expansion joint for parking garages, warehouses and vehicular-traffic areas.

Application	Floor-to-floor · heavy vehicular traffic
Joint widths	50, 100 & 150 mm
Movement rating	$\pm 50\%$
Horizontal movement	± 25 / 50 / 75 mm
Vertical movement	± 25 / 50 / 75 mm
Cover plate	Continuous aluminium (stainless-steel optional)

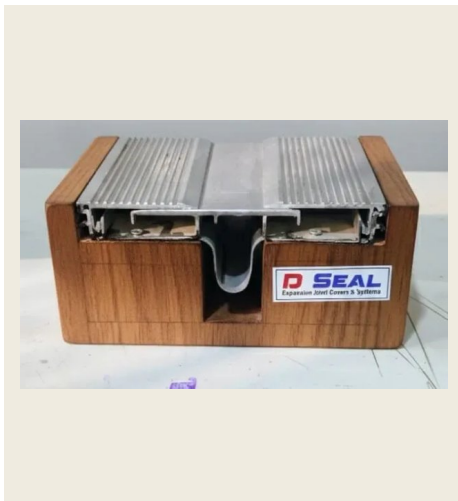


SeismoGuard 100

HEAVY-DUTY ALL-METAL FLOOR JOINT

Solid all-metal floor expansion joint for large movement and heavy traffic – carries light fork-lift and pallet-truck loads while absorbing movement in three directions.

Joint width	90 mm
Total movement	45 mm
Load capacity	12 kN
Heights	20 / 35 / 50 / 90 mm
Production length	4 m
Finish	Aluminium



JointMaster

RECESS-MOUNTED · FLOOR COVER

Heavy-duty aluminium recess-mounted floor joint cover with a free-floating centre plate – for interior and exterior use with some vehicular access.

Joint width	Up to 100 mm
Horizontal movement	+95 mm / -40 mm
Vertical movement	±3 mm
Load capability	1000 kg point load
Finish	Mill-finish aluminium



JackGuard

HORIZONTAL · FLOOR-TO-FLOOR

The horizontal floor-to-floor joint solution – a robust expansion joint cover for level floor transitions.

Type	Horizontal floor-to-floor
Material	ASTM 6063 T6 aluminium
Application	Commercial / industrial floors

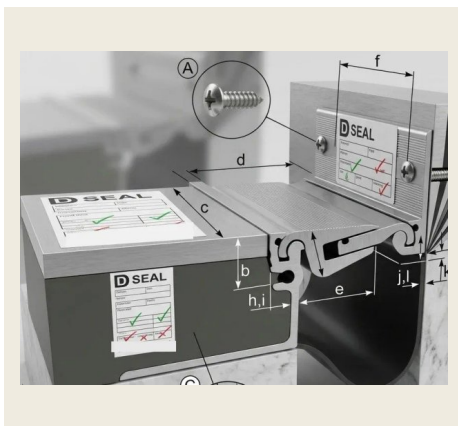


GalaxyJoint

FLOOR COVER · HIGH TRAFFIC

Floor expansion joint cover for high-frequency pedestrian traffic and heavy rolling loads – airports, convention centres, subways and hospitals.

Joint range	50 mm – 125 mm (2" – 5")
Thermal movement	±18%
Surface	Serrated, slip-resistant
Mounting	Surface mount (new / retrofit)

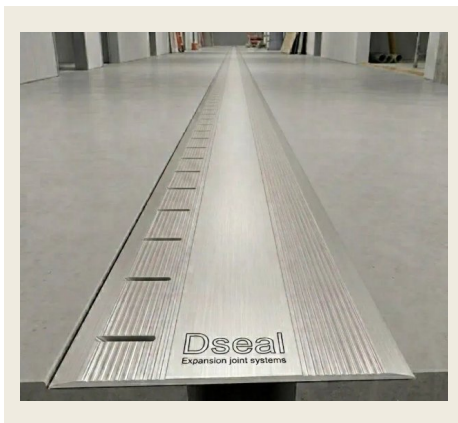


StarGuard

FLOOR-TO-FLOOR · COVER SYSTEM

Floor-to-floor expansion joint cover system delivering a robust, low-profile transition for interior floors.

Type	Floor-to-floor cover
Material	ASTM 6063 T6 aluminium
Application	Interior floors

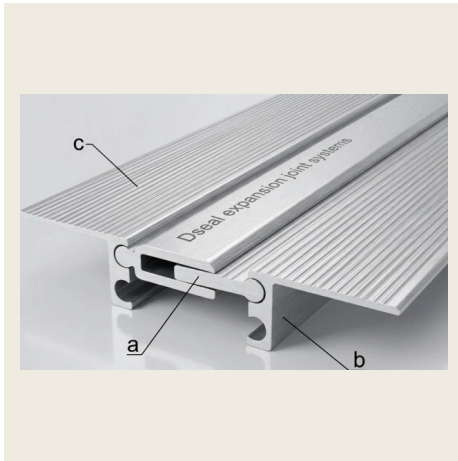


LevelJoint

FLOOR · COVER PLATE

Floor cover-plate expansion joint for level transitions across wide joint openings from 100 mm to 375 mm.

Type	Floor cover plate
Joint range	100 mm – 375 mm
Material	Aluminium



PlazaJoint

MODULAR · MORTAR-BED (MF)

Modular floor expansion joint for mortar beds – a co-extruded profile that subdivides the bed into bays and adapts to almost any height.

Type	Modular mortar-bed (MF)
Minimum height	30 mm
Adjustment	15 – 20 mm intervals
Profile	Co-extruded twin-resin



NovaLink

HINGE PROFILE · HEAVY DUTY

Hinged floor expansion joint cover for uneven slabs – a single hinged plate that handles pedestrian and heavy-duty loads.

Standard joint sizes	25.4 mm – 101.6 mm (1" – 4")
Heavy-duty joint sizes	100 mm – 170 mm (4" – 7")
Loading	Up to 2,000 lbs
Standard	ASTM E1399, ADA compliant

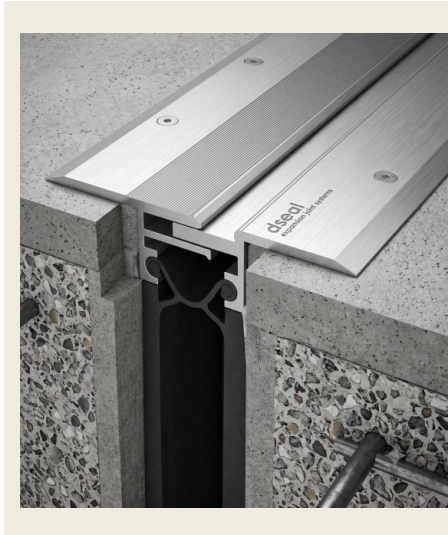


FlexiGuard

FLOOR & WALL · INTERCHANGEABLE INSERT

Surface-mounted expansion joint profile with an interchangeable TPE insert – anti-slip, hard-wearing and ideal for sports and high-hygiene areas.

Joint width	50 mm
Compensation	Up to 20 mm
Insert height	3 mm
Profile length	3 m (insert 25 m)
Temperature	-30°C to +120°C



Flip Joint

ARCHITECTURAL FLOOR JOINT

Heavy-duty architectural floor joint with interlocking flip centre plates, a grooved aluminium cover and an internal elastomeric water-stop – flush and watertight.

Joint width	50 mm (nom.)
Depth	100 mm
Cover	Grooved aluminium
Centre	Interlocking flip plates
Seal	Internal water-stop
Fixing	Hex screws



DriveSafe SS Cover

HEAVY-DUTY ALL-METAL FLOOR JOINT

All-metal comb-plate floor joint for the most demanding loads – hardened or stainless steel, joint gaps to 250 mm and up to 600 kN.

Material	Steel / SS 304-316
Max joint gap	250 mm
Movement	+/-15 to 20 mm
Load capacity	up to 600 kN
Max axle load	19 t/axle
Sizes	DS-PJ 40 - 250

Wall & Facade

Wall-to-wall and facade expansion covers with concealed fixings and weather-resistant seals, presenting a clean architectural line across building movement joints.



ProGuard

WALL-TO-WALL · SMN SERIES

Wall-to-wall expansion joint (SMN series) designed to absorb the structural movements of large or compound buildings.

Type	Wall-to-wall (SMN series)
Movement	Vertical / horizontal / transversal
Mounting	Surface (incl. vertical)



AeroGuard

WALL · COVER SYSTEM

Architectural wall expansion joint cover combining clean aesthetics with dependable movement accommodation.

Type	Wall cover
Material	ASTM 6063 T6 aluminium
Application	Interior / exterior walls



Aerostar

WALL-TO-WALL · LOCK PROFILE

Wall-to-wall expansion joint cover with a lock profile, providing secure retention and a clean architectural line.

Type	Wall-to-wall (lock profile)
Material	ASTM 6063 T6 aluminium
Application	Interior / exterior walls



ClampJoint

WALL / CORNER · CLIP PROFILE

Wall-to-wall clip-joint cover system, including corner configurations, for secure clamped retention of the joint cover.

Type	Wall-to-wall clip joint
Configurations	Straight / corner
Material	Aluminium



Corner Joint System

CORNER · WALL-TO-WALL

Corner expansion joint profile for wall-to-wall corner conditions, with a clip-retained cover for a clean inside or outside corner.

Type	Corner expansion joint
Retention	Clip profile
Application	Wall-to-wall corners

Roof

Roof expansion joints that handle thermal movement and weather for joint widths up to 500 mm, with snow-load options and UV-stable seals.



SkyBridge

ROOF · EXPANSION JOINT

Roof expansion joint system safeguarding roof structures from thermal movement and weather, for joint widths from 50 mm to 500 mm.

Type	Roof expansion joint
Joint width	50 mm – 500 mm
Sealing	Neoprene washers + PU seals
Materials	Anodised/sprayed aluminium, SS, brass



Roof Seal — TPE

ROOF · TPE / TPV SEAL

TPE/TPV roof seal system delivering flexible, weather-resistant sealing for roof and exterior expansion joints.

Type	Roof seal (TPE / TPV)
Material	Thermoplastic elastomer
Application	Roof / exterior joints

Seismic

Seismic joints engineered to absorb large, multi-directional movement in earthquake-prone structures, with integral water barriers and cap-seal solutions for bridges and tunnels.



SeismoMax

SEISMIC · JOINT SYSTEM

Seismic expansion joint system engineered to absorb large, multi-directional movements in earthquake-prone structures.

Type	Seismic joint system
Movement	Large, multi-directional
Application	Seismic zones

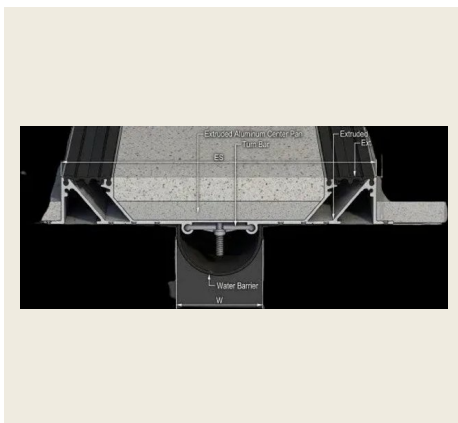


JointShield

WALL-TO-WALL · SEISMIC COVER

Wall-to-wall seismic cover system with an integral water barrier – shield-like protection for large movement joints.

Type	Wall-to-wall seismic cover
Water barrier	Integral
Movement	Multi-directional (seismic)



HorizonGuard

SEISMIC · HORIZONTAL JOINT

Seismic horizontal joint system using a sealant-and-backer-rod arrangement to absorb floor-to-floor movement.

Type	Seismic horizontal joint
System	Sealant + backer rod
Application	Floor-to-floor (seismic)



Omega Seal

OMEGA CAP SEAL · BRIDGE & TUNNEL

Omega-shaped elastomeric cap seal for bridges, tunnels, aqueducts and ship lifts – withstands high water pressure with very large, multi-directional movement.

Profile	Omega cap seal
Elastomer	Chloroprene (CR)
Hardness	63 +/-5 Shore A
Movement	Very high, multi-directional
Water pressure	High
Clamping	Galv. steel plates + bolts

Compression Seals

Flexible compression seals for horizontal and vertical movement joints – unaffected by water, oil or chemicals, for gaps up to 120 mm.



EnduroSeal

EPDM · WALL-TO-WALL (REFURB)

Wall-to-wall EPDM compression seal with collar – quick-fit flexible rubber strips, perfect for refurbishments.

Type	EPDM wall-to-wall seal (collar)
Material	EPDM rubber
Supply	Cut to suit, up to 25 m rolls
Mounting	Surface or recessed



SealMaster-H

EPDM · COMPRESSION SEAL

Horizontal EPDM compression seal system – a masterful solution for floor and wall sealing.

Type	Horizontal EPDM compression seal
Material	EPDM rubber
Application	Floor / wall joints

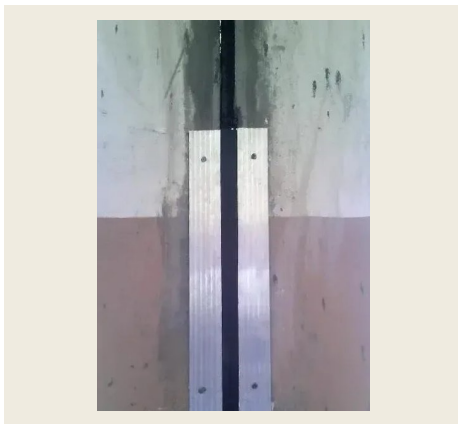


SealMaster-HV

EPDM · HORIZONTAL & VERTICAL

EPDM compression seal for both horizontal and vertical joints – unaffected by water, oil or chemicals, for gaps up to 120 mm.

Type	EPDM seal (horizontal & vertical)
Max gap	120 mm
Sizes	10 standard + custom
Resistance	Water, oil, chemicals

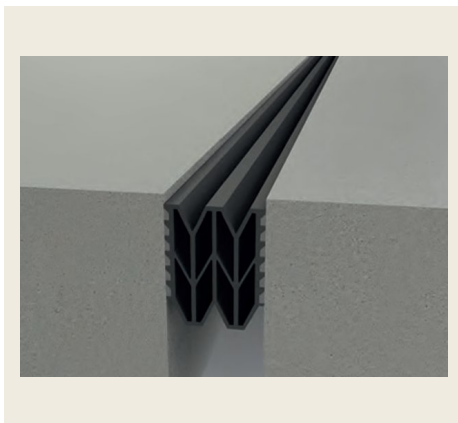


Vertical Compression Seal

VERTICAL · COMPRESSION SEAL (D-TYPE)

D-type EPDM compression seal designed specifically for vertical movement joints in walls and facades.

Type	Vertical compression seal (D-type)
Material	EPDM rubber
Application	Vertical wall / facade joints



TrafficFlex Seal

EPDM · FLOOR (TRAFFIC)

Floor-to-floor EPDM seal engineered for traffic-heavy horizontal expansion joints.

Type	Floor EPDM seal
Material	EPDM rubber
Application	Traffic-heavy horizontal joints

Below-grade & Accessories

Watertight below-grade joints and water-management accessories for foundations, tunnels and subterranean structures.

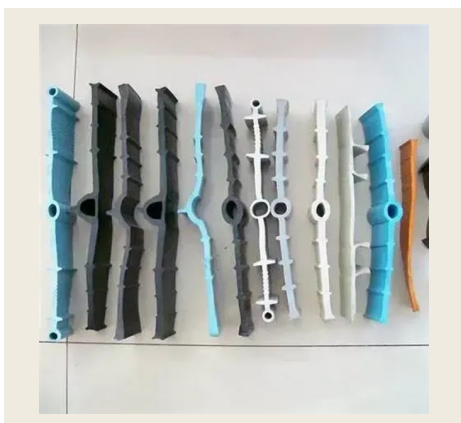


Bellow-Grade System

BELOW-GRADE · WATERPROOF

Watertight, durable and flexible below-grade expansion joint system for foundations, tunnels and subterranean structures.

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



Water Barrier + Outlet

ACCESSORY · WATER MANAGEMENT

Expansion joint water barrier with an integrated outlet pipe to collect and drain water away from the joint.

Type	Water barrier + outlet
Function	Collection + drainage
Use	Beneath floor / deck joints

Four answers, and we do the rest

Choosing an expansion joint comes down to four questions. Send us the answers – by phone, email or the online quote form – and our engineers will match you to the right Dseal system and prepare a quotation.

01 Joint width & movement

The gap to be bridged and how much it will open, close and shear.

02 Traffic & load

Foot traffic, trolleys, cars, fork-lifts or HGVs – and the wheel loads.

03 Location & exposure

Floor, wall or roof; indoor or outdoor; water, chemicals or fire.

04 Finish & aesthetics

The look you need and the floor or wall finish it must sit within.

Not sure? Our AI product advisor at dseal.in narrows the range in a minute — then a human engineer confirms it.

Let's build your joint solution

Tell us your joint width, movement, traffic and location. Our engineers will recommend the right system and prepare a quotation – quickly, and without obligation.

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