

Dseal Flip Joint

Heavy-Duty Architectural Floor Expansion Joint

— PRODUCT OVERVIEW

Dseal Flip Joint is a heavy-duty architectural floor expansion joint engineered for a clean, flush finish across movement joints in high-quality floors. Twin grooved aluminium cover plates sit in nested aluminium profile frames anchored into the slab, presenting a bevelled, low-profile surface that transitions smoothly for foot and wheeled traffic. At its heart are interlocking centre plates that pivot ("flip") as the joint opens and closes, transferring load across the gap while allowing thermal and structural movement. An internal elastomeric seal runs continuously beneath the centre as a water-stop, keeping the joint watertight and protecting the structure below. The profile suits a nominal 50 mm joint width at 100 mm installation depth, fixed with flat-head hex screws (with an optional dowel-bar detail) for a secure, serviceable installation in concrete slabs.

— TECHNICAL SPECIFICATIONS

Type	Interlocking-cover floor expansion joint
Joint width (nominal)	50 mm (typical)
Installation depth	100 mm
Cover plate	Grooved aluminium, bevelled edge
Frame	Nested aluminium profile
Centre	Interlocking pivoting ("flip") plates
Seal	Internal elastomeric water-stop
Fixing	Flat-head hex screws (+ optional dowel bar)
Substrate	Concrete slab

— DIMENSIONS

Joint width (nominal)	50 mm (typical)
Installation depth	100 mm
Cover plate	Grooved aluminium, bevelled edge
Fixing	Flat-head hex screws (per drawing)

— MATERIALS

Cover plate	Grooved aluminium, bevelled edge
Frame	Nested aluminium profile
Centre	Interlocking pivoting plates (aluminium)
Seal	Internal elastomeric water-stop
Fixings	Flat-head hex screws; optional dowel bar

— PERFORMANCE DATA

Movement	Thermal and structural, via interlocking centre
Watertightness	Internal elastomeric water-stop
Traffic	Foot and wheeled traffic (architectural floors)
Finish	Flush, low-profile, grooved surface

— INSTALLATION GUIDELINES

1. Prepare and clean both slab edges of the joint, forming the recess to the correct 100 mm depth and 50 mm nominal gap.
2. Set the nested aluminium profile frames along each edge, flush and level with the finished floor.
3. Fix the frames into the slab with flat-head hex screws (and dowel bars where specified), checking alignment and level.
4. Position the internal elastomeric seal (water-stop) continuously beneath the centre so the joint is watertight.
5. Engage the interlocking centre plates and fit the grooved aluminium cover plates, confirming they transit flush for traffic.
6. Inspect the full run for level, secure fixing and a continuous seal before handover.

— COMPLIANCE & CERTIFICATIONS

- Heavy-duty architectural expansion joint - aluminium with elastomeric water-stop
- Flush, bevelled, low-profile cover for clean architectural floors
- Manufactured by Dseal Solutions Private Limited - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
- Sizes, fixings and lengths specified per project; contact Dseal for drawings