



KANTA RUBBER PRIVATE LIMITED

Selection Criteria Chart — Structural Expansion Joints

4. Selection Criteria Chart — Structural Expansion Joints

The chart below summarizes typical movement range, governing standard, and application for each expansion joint type to assist in preliminary joint selection at the design stage.

Joint Type	Typical Movement Range	Governing Standard	Typical Application
Filler Joint	± 5 - 20 mm	IRC:SP:69-2011	Minor bridges, culverts
Asphaltic Plug Joint	± 20 - 40 mm	IRC:SP:69-2011	Medium span bridges, resurfacing
Strip Seal Joint	± 40 - 80 mm	IRC:SP:69-2011	Highway bridges, flyovers
Compression Seal Joint	± 25 - 50 mm	IRC:SP:69-2011	Highway bridges, moderate movement
Reinforced Elastomeric Slab Joint	± 40 - 80 mm	IRC:SP:69-2011	Low-profile surface-mounted joints
Modular Strip Seal Joint	± 160 mm to 1000+ mm	IRC:SP:69-2011	Long-span / high-movement bridges
Finger Joint	± 100 - 400 mm	IRC:SP:69-2011	Long-span bridges
Reinforced Coupled Elastomeric Slab Joint	± 80 - 160 mm	IRC:SP:69-2011	Medium-large span bridges
Sliding Rail Joint (Ballasted Track)	± 50 - 150 mm (RDSO drawing)	RDSO	Railway bridges, welded rail
Omega Shaped Elastomeric Joint	± 50 - 150 mm	UIC 772-2R / RDSO	Metro viaducts and stations
Compression Seal (Metro / HSR)	± 25 - 60 mm	UIC 772-2R / RDSO	Metro / HSR elevated structures
SS Shear Key Cover Joint	Restrains transverse movement	RDSO	Metro shear key locations