ROAD JOINTS

WOSd EXPANSION JOINT

Data sheet n°: CV1-5

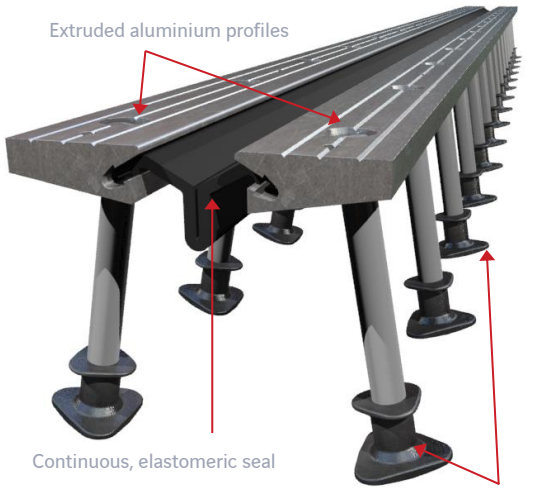
- Rapid installation
- Easy maintenance
- High durability
- 3 axis movements
- Corrosion protection
- Watertight

Introduction

Expansion joints for road bridges are used to ensure the continuity of the running surface and its load bearing capacity (safety and comfort of the users) while guaranteeing the structure freedom of movement.

Description

The WOSd joint belongs to the nosing joints range and comprises two extruded aluminium alloy profiles supplied in 3-metre lengths and laid face-to-face. These units are installed end-to-end to form the joint line.
They are anchored to the main structure by prestressed fasteners.
A continuous, elastomeric seal clamped to the joint profiles, along the joint line, completes this assembly.

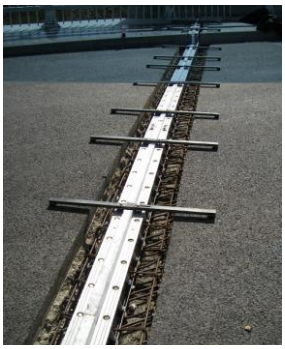


WOSd cross section

Applications

WOSd joints can be used for all types of structures:

- Concrete, metal and composite structures.
- Slab, cable-stayed, suspension, lifting or tilting bridges
- New build or repair works



WOSd50 during installation

Advantages

- **High durability** using efficient tension control bolts
- **Light elements** easily handled and adjusted
- **Easy maintenance** and **removal** of the joint, in case of raising of asphalt, owing to the easily accessible anchor bolts
- **Corrosion protection** owing to anodization of the aluminium alloy, which prevents damages from harsh weather conditions
- **Waterproofing** ensured by a continuous rubber strip
- Absence of saw-teeth **allows large skew angles** and **movements in the 3 freedom degrees**

Installation

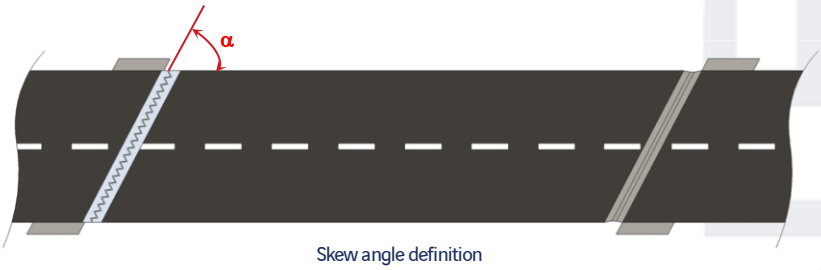
The WOSd joint is installed on site by expert Freyssinet teams. The metallic elements of the joint are securely anchored to the structure using prestressed fasteners. Installation of the complete line can be done in one phase or lane by lane to avoid traffic interruption. To guaranty perfect levelling with the road surface, joints are installed after the asphalt has been applied.

WOSd during installation: kerb treatment and footpath joint

Movement range

The movement capacities of the WOSd range will vary according to the skew angle, i.e. the angle between traffic direction and longitudinal axis of the joint (in mm).

Type\skew angle	Straight 100 gr	80 gr	60 gr	40 gr
WOSd50	50	52	40	34
WOSd75	75	78	57	48
WOSd100	100	105	76	64



Skew angle definition

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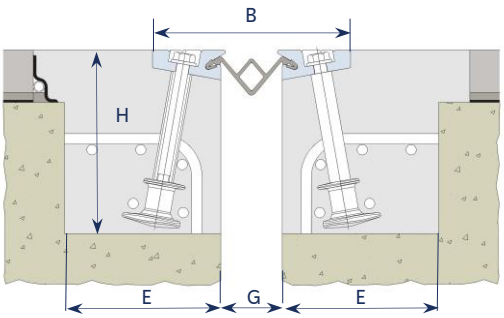
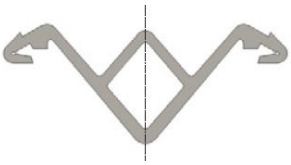
WOSd EXPANSION JOINT

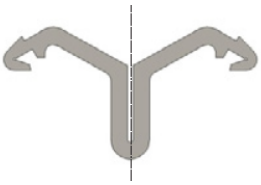
General dimensions



WOSd cross section



WOSd 50 elastomeric section



WOSd 75/100 elastomeric section

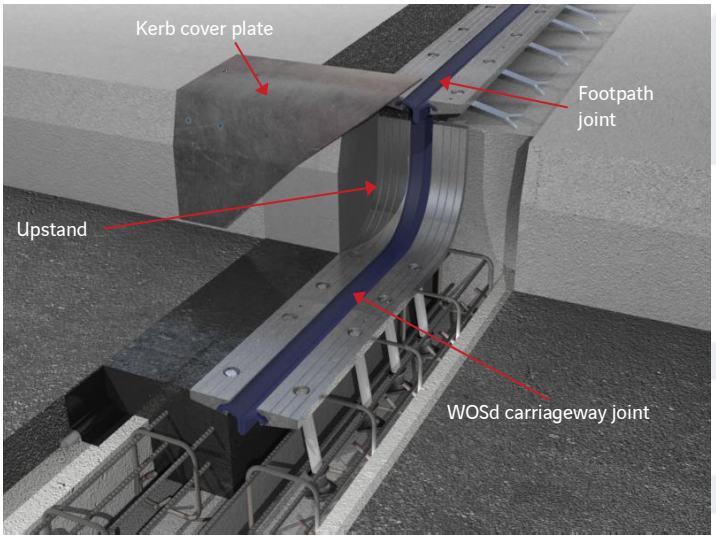
Type	B		G		E	H
	mini	maxi	mini	maxi	mini	mini
WOSd50	146	196	15	65	150	200
WOSd75	150	225	12	87	150	200
WOSd100	150	250	12	112	150	200

Dimensions in mm

Add-ons

To ensure the overall waterproofing of the road expansion joint and joint continuity on non-traffic areas, the following add-ons are available:

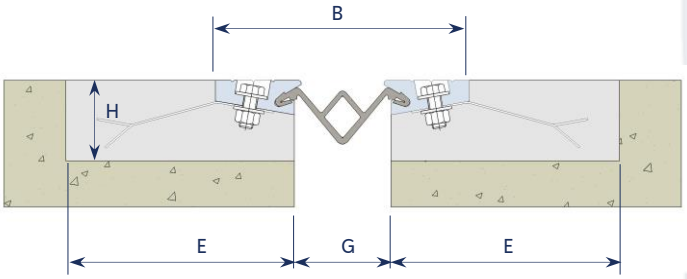
- Footpath joints
- End section upstands



3D view of the kerb treatment

Type	Model	B		G		E	H
		mini	maxi	mini	maxi	mini	mini
WOSd50	TO50	146	196	15	65	150	70
WOSd75	TO80	150	225	12	87	150	70
WOSd100	TO100	150	250	12	112	150	70

Dimensions in mm



TO footpath aluminium profile cross-section view

A global approach

- Specification and design services
- Manufacture by carefully selected partners
- Production supervision to ensure compliance with specifications defined
- Full installation / replacement or technical support
- Inspection and maintenance
- Certifications include ISO 9001, ISO 14001, ISO 45001