

CIPEC Wd & Wd+ JOINTS



Design

Belonging to the cantilever saw-tooth family, this joint comprises a pair of individual cast aluminium alloy sections with triangular saw-teeth supplied in one metre lengths and laid opposite each other. A series of pairs of elements installed end-to-end forms the joint line.

The metal elements are anchored to the main structure by fasteners.

The bottom surface of the joint in contact with the concrete may be coated with epoxy paint (model Wd+) for main structures subject to high humidity and de-icing salts.

Specific features:

- Wd joints are exceptionally robust thanks to the use of tension control bolts to connect the metal elements to the main structure and also the choice of materials. They are designed for frequent heavy traffic;
- The triangular saw-teeth of the metal elements enable operation with no gap and so ensure perfect running surface continuity and significantly reduced noise over the joint;
- Easily accessible anchor bolts and the short length of the elements make it easy to maintain and remove the joint with traffic interruption only necessary on the lane in question;
- Wd and Wd+ joints accept skew angles up to 30 gr without any change to their intrinsic qualities.

1. Installed Wd joint
2. Minnesund bridge E10 - Norway

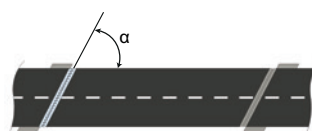
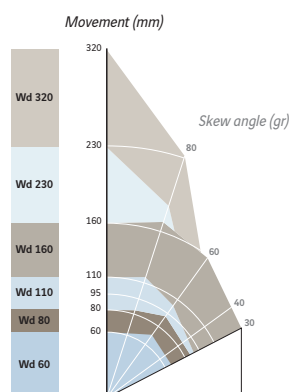


Movement range

The table opposite shows the capacity of Wd and Wd+ joints to accept movement depending on skew angle (α) of the main structure.

Type	Straight (100 gr)	80 gr	60 gr	40 gr	30 gr
Wd/Wd+ 60	60	61	71	66	67
Wd/Wd+ 80	80	84	92	85	86
Wd/Wd+ 110	110	116	104	92	90
Wd/Wd+ 160	160	169	158	141	139
Wd/Wd+ 230	230	185	127	102	97
Wd/Wd+ 320	320	231	150	120	112

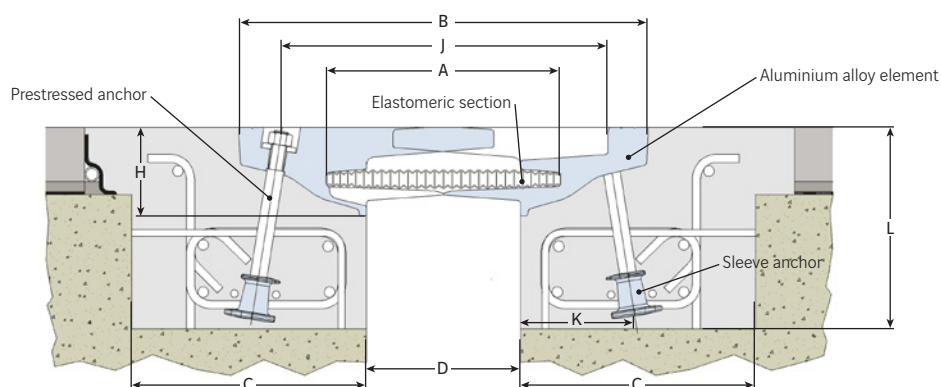
Dimensions in mm



Technical data sheet

Type	A		B		J		D		H	Recesses		Fasteners		
	min.	max.	min.	max.	min.	max.	min.	max.		C	L	K	Force	Nb.
Wd/Wd+ 60	65	125	185	245	125	185	20	80	55	200	200	52.5	6.5	5
Wd/Wd+ 80	90	170	220	300	155	235	30	110	57	200	200	62.5	6.5	6
Wd/Wd+ 110	120	230	300	410	210	320	40	150	82	250	250	85	10	5
Wd/Wd+ 160	170	330	400	560	290	450	50	210	98	300	280	120	19	4
Wd/Wd+ 230	240	470	440	670	320	550	70	300	123	350	280	175	19	5
Wd/Wd+ 320	190	510	450	770	320	640	70	390	115	350	280	175	19	4

Dimensions in mm



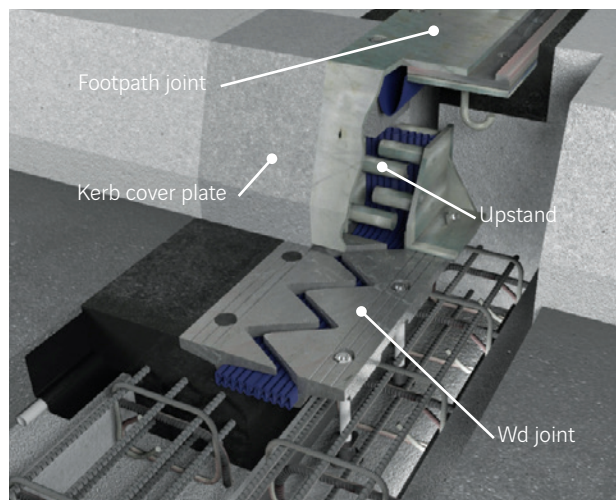
Accessories

To ensure general watertightness at expansion joint level and joint continuity to pavements (or non-traffic areas), the following accessories are available:

- Footpath joints;
- End section upstands + kerb cover plate;
- Drain (see page 33).

Type	Pavement joint model	A		B		C	D		E	H
		min.	max.	min.	max.		min.	max.		
Wd/Wd+ 60	TO 80	0	80	150	230	200	12	92	-	70
Wd/Wd+ 80	TO 80	0	80	150	230	200	12	92	-	70
Wd/Wd+ 110	PL 110	20	130	220	330	300	20	130	150	150
Wd/Wd+ 160	PL 160	25	185	275	435	350	25	185	150	150
Wd/Wd+ 230	PL 230	70	300	390	620	420	70	300	150	150
Wd/Wd+ 320	PL 350	50	400	490	840	540	50	400	150	150

Dimensions in mm



Footpath upstand (3D)

