CIPEC WP Joint

Lager & Fuger AS
lafu.no

Design

Belonging to the cantilever comb family, this joint comprises a pair of individual elements (combs) with parallel saw-teeth supplied in one metre lengths and laid opposite each other.

The combs are either flame cut from a rolled steel plate or cast in aluminium alloy.

A series of pairs of elements installed end-to-end forms the joint seam. The metal elements are anchored to the main structure by tension control fasteners.

Vienne viaduct (France)

Specific features:

- WP joints are manufactured on request and may be adapted to the directional movement of the main structure, straight (fig.1) or skew (fig.2);
- WP joints are exceptionally robust due to the simple design;
- The comb joint principle provides user comfort and noise free ride.

Movement range

The capacity varies from 60 to 1200 mm depending on the model.

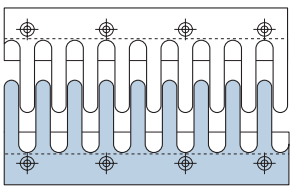


Fig.1

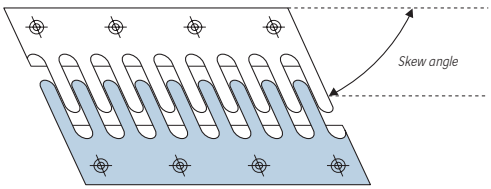


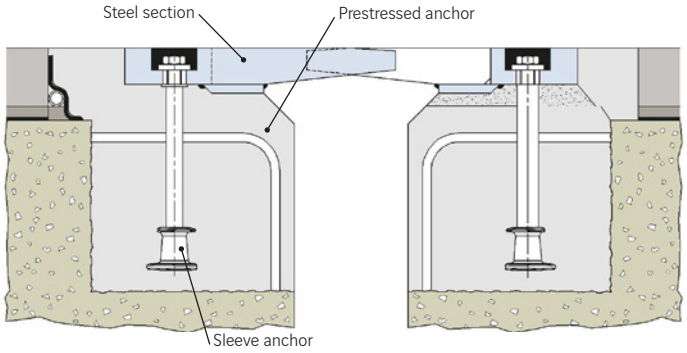
Fig.2

Water collection

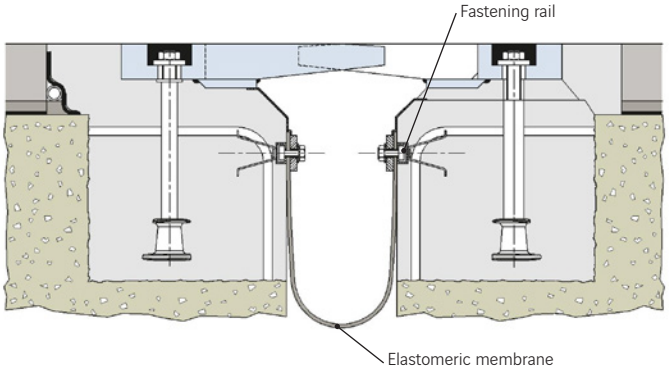
A system for recovering runoff water may be combined with basic WP joints (type 1).

The system comprises either:

- A continuous elastomeric looped membrane over the entire length of the joint (type 2)
- An elastomeric section inserted between the metal elements (type 3)
- Two elastomeric or stainless steel sheet water recovery membranes with a gutter located under the joint (type 4)

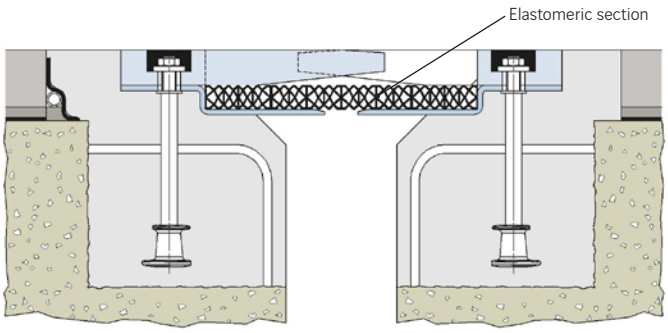


Type 1



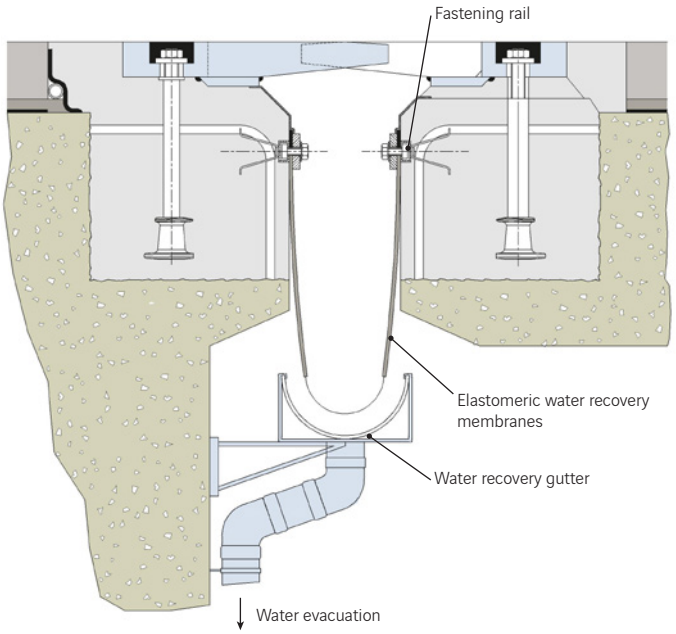
Type 2

Type 3



Up to WP600

Type 4



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Types 1, 2 and 4

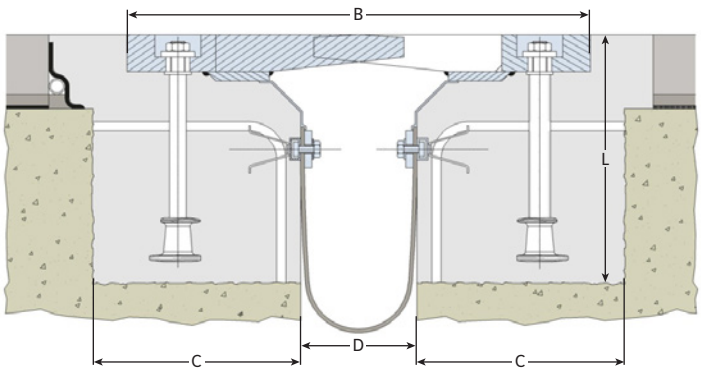
Type	B		D		Recesses	
	min.	max.	min.	max.	C	L
WP60	240	300	50	110	70	300
WP80	355	435	50	130	110	300
WP100	375	475	50	150	120	300
WP120	395	515	50	170	130	300
WP160	540	700	50	210	185	300
WP180	520	700	50	230	180	350
WP200	580	780	50	250	202.5	350
WP250	510	760	50	300	160	350
WP300	590	890	50	350	180	350
WP350	650	1000	50	400	210	350
WP400	740	1140	50	450	245	350
WP450	810	1260	50	500	250	350
WP500	890	1390	50	550	280	350
WP550	960	1510	50	600	310	350
WP600	1020	1620	50	650	335	350
WP700	1160	1860	50	750	385	350
WP800	1440	2240	50	850	455/575	350
WP900	1610	2510	50	950	485/605	350
WP1000	1810	2810	50	1050	585/705	350
WP1100	1910	3010	50	1150	625/745	350
WP1200	2090	3290	50	1250	635/755	350

Not applicable to WP Type3 (see opposite)

Dimensions in mm

Type Alu	B		D		Recesses	
	min.	max.	min.	max.	C	L
WP200	430	630	50	250	300	350
WP250	570	820	50	300	350	350
WP300	620	920	50	350	350	350

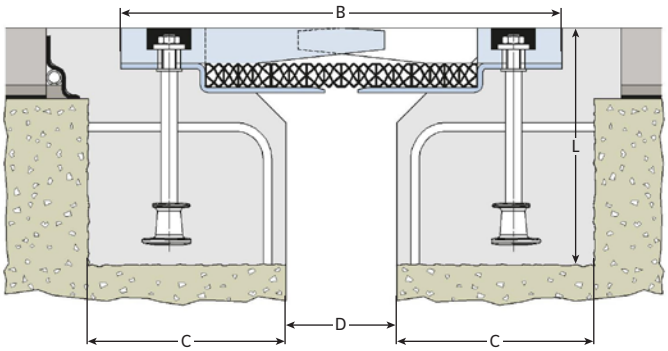
Dimensions in mm



Type 3

Type	B	D	C	L
WP3 200	820-1020	120-320	500	350
WP3 250	900-1150	170-420	515	350
WP3 300	965-1265	220-520	525	350
WP3 350	1045-1395	270-620	535	350
WP3 400	1200-1600	320-720	590	300
WP3 450	1265-1715	370-820	600	350
WP3 500	1450-1950	420-920	665	350
WP3 550	1560-2110	470-1020	695	350
WP3 600	1685-2285	520-1120	730	350

Dimensions in mm



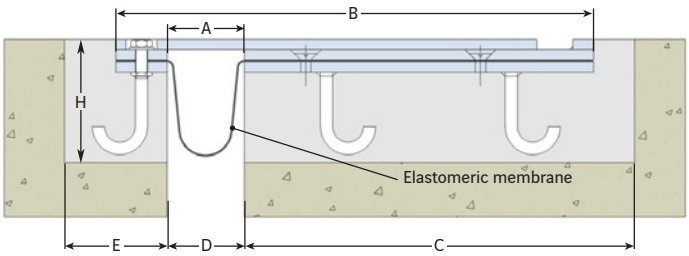
WP joint seen from below

CV1 - 09/14

Accessories

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

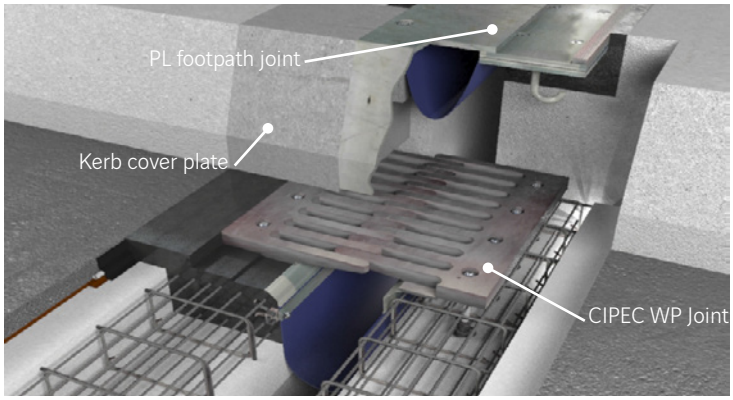
- Pavement joints (with our without water recovery membrane)
- End section upstands + kerb cover plate
- Drain (see page 33)



"PL" model footpath joint

Type	Pavement joint model	A		B		C	D		E	H
		min.	max.	min.	max.		min.	max.		
WP60	PL 60	10	70	160	220	250	10	70	150	150
WP80	PL 80	10	90	180	260	270	10	90	150	150
WP100	PL 100	20	120	210	310	290	20	120	150	150
WP120	PL 120	20	140	230	350	310	20	140	150	150
WP160	PL 160	25	185	275	435	350	25	185	150	150
WP180	PL 180	50	230	320	500	370	50	230	150	150
WP200	PL 200	30	230	320	520	390	30	230	150	150
WP250	PL 250	40	290	380	630	440	40	290	150	150
WP300	PL 300	50	350	440	740	490	50	350	150	150
WP350	PL 350	50	400	490	840	540	50	400	150	150
WP400	PL 400	50	450	540	940	590	50	450	150	150
WP500	PL 500	50	550	640	1140	690	50	550	150	150
WP600	PL 600	50	650	740	1340	790	50	650	150	150
WP700	PL 700	50	750	840	1540	890	50	750	150	150
WP800	PL 800	50	850	940	1740	990	50	850	150	150
WP900	PL 900	50	950	1040	1940	1090	50	950	150	150
WP1000	PL 1000	50	1050	1140	2140	1190	50	1050	150	150
WP1100	PL 1100	50	1150	1240	2340	1290	50	1150	150	150
WP1200	PL 1200	50	1250	1340	2540	1390	50	1250	150	150

Dimensions in mm



Arrangement at upstand

Adaptation for cycle lanes

To provide optimal safety and comfort for cyclists, a specially designed metal sheet is added to joints on cycle lanes.

Adaptation for cycle lanes