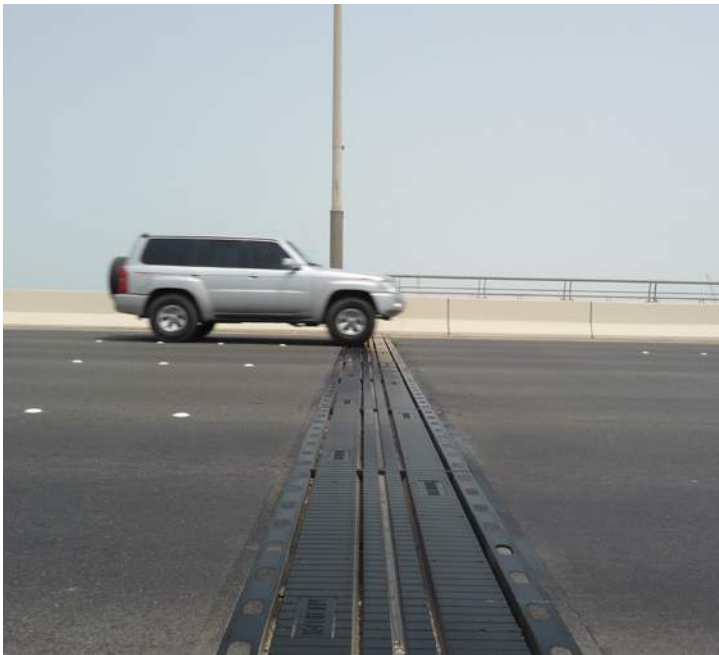


# MULTIFLEX SX JOINT



## Design

The Multiflex SX joint is a Mat joint where movement imposed by the main structure is absorbed by deformation of the elastomeric sections. It comprises moulded elastomeric elements of 1 or 2 metres in length (depending on the model) vulcanized and bonded to metal inserts designed to accommodate rolling loads and distribute loads in the fasteners.



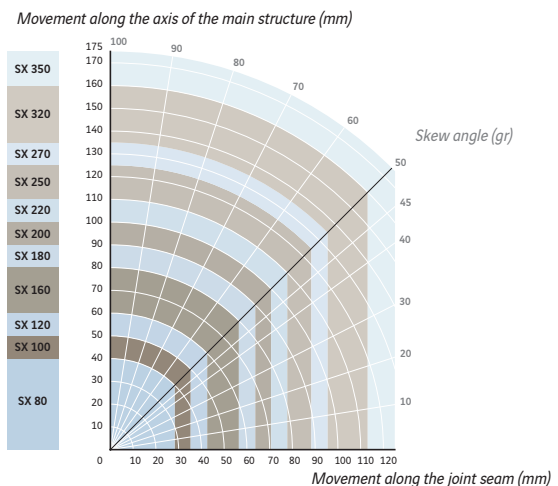
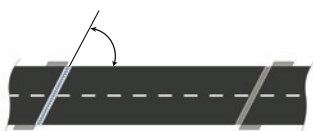
## Specific features:

- Perfect watertightness ensured by total elastomer continuity and by positioning a high quality adhesive seal where the elements meet;
- The elastomer contact enables absorption of wheel impact and running surface irregularities thereby providing an excellent level of user comfort;
- Upper surface has anti-skid grooves for optimal user safety;
- Very effectively accommodates transversal, vertical and rotational movements of the main structure;
- Steel inserts entirely elastomer coated, fully protected against corrosion and chemical attack (oil, grease, hydrocarbons and de-icing salts);
- Exceptionally simple installation and can be installed directly without recesses in the main structure.

Saadiyat Bridge - United Arab Emirates

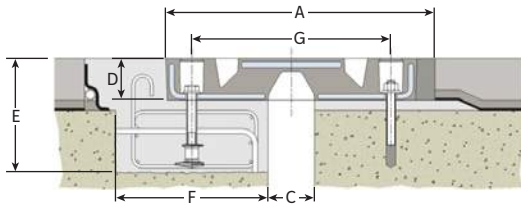
## Movement range

Movement capacity by model depending on skew angle ( $\alpha$ ) of the main structure.

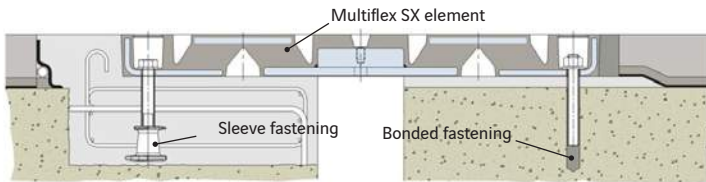


## Technical data sheet

There are two different designs, the single module joint and the bridged joint. They have different movement capacities.



Single element module



Double element module

Type	Design	Movement	Dimensions						Weight of one element (kg/m)	
			Length	A	D	G	C	E		F
SX 80	single	±40	2000	275	42	220	50	195	213	27
SX 100	single	±50	2000	355	46	280	60	200	238	35
SX 120	single	±60	2000	390	53	300	70	190	257	29
SX 160	single	±80	2000	470	78	370	90	200	288	87
SX180	single	±90	2000	500	82	400	100	210	298	96
SX 200	double	±100	2000	895	60	795	110	220	452	128
SX 220	double	±110	2000	800	69	700	120	230	400	152
SX 250	double	±125	2000	1040	69	940	135	230	512	244
SX 270	double	±135	2000	890	78	790	150	245	431	179
SX 320	double	±160	1250	1275	82	1165	220	320	588	244
SX 350	double	±175	1000	1105	100	980	220	335	502	318

Dimensions in mm

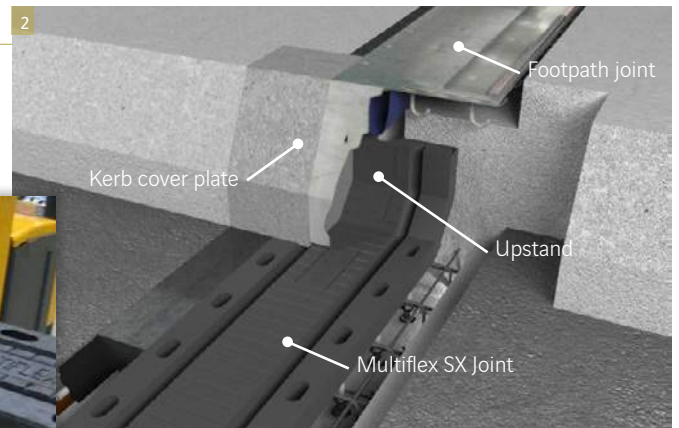
## Accessories

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

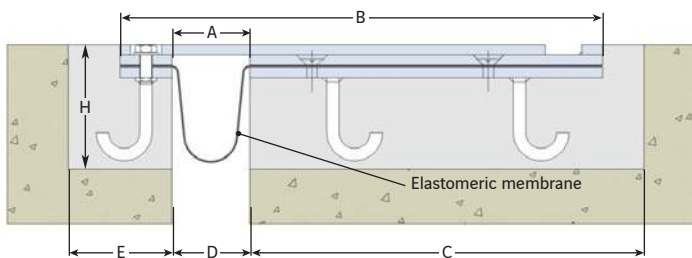
- Footpath joints;
- End section upstands + kerb cover plate;
- Drain (see page 33).



1. Tailor made footpath upstand



2. PL footpath joint adaptation



"PL" model footpath joint

Type	Pavement joint model	A		B		C	D		E	H
		min.	max.	min.	max.		min.	max.		
SX 80	PL 80	10	90	180	260	270	10	90	150	150
SX 100	PL 100	20	120	210	310	290	20	120	150	150
SX 120	PL 120	20	140	230	350	310	20	140	150	150
SX 160	PL 160	25	185	275	435	350	25	185	150	150
SX180	PL 180	50	230	320	500	370	50	230	150	150
SX 200	PL 200	30	230	320	520	390	30	230	150	150
SX 220	PL 230	70	300	390	620	420	70	300	150	150
SX 250	PL 250	40	290	380	630	440	40	290	150	150
SX 270	PL 300	50	350	440	740	490	50	350	150	150
SX 320	PL 350	50	400	490	840	540	50	400	150	150
SX 350	PL 350	50	400	490	840	540	50	400	150	150

Dimensions in mm