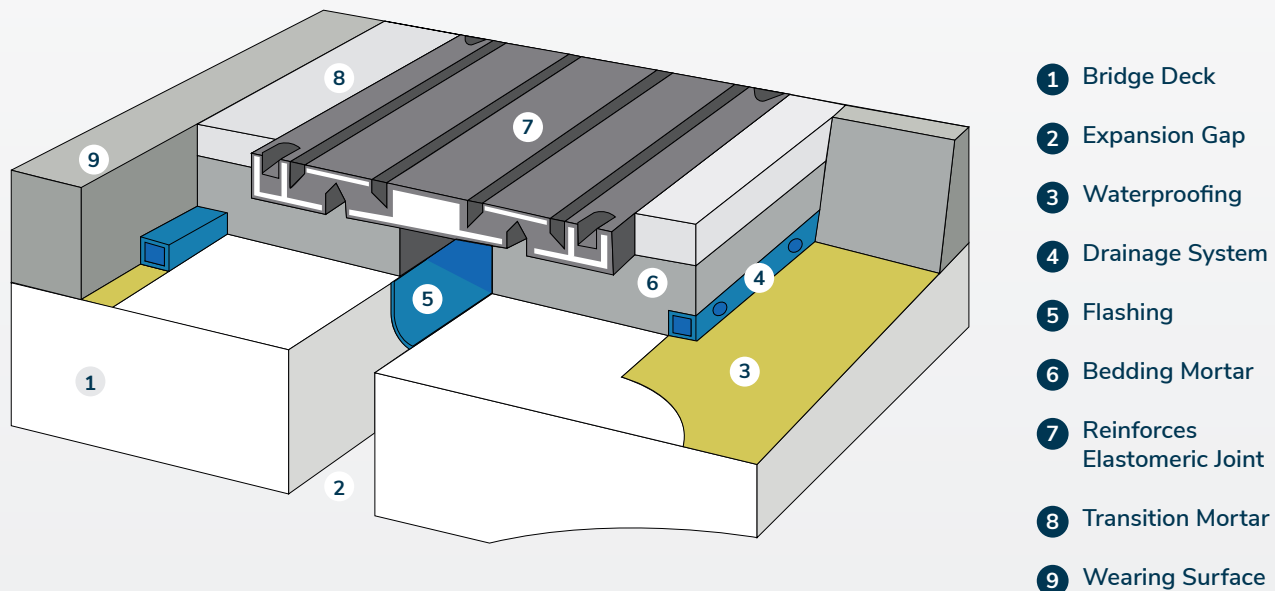


SENTINEL® ALGAFLEX

PART 5: MAT EXPANSION JOINT (TYPE 5 REINFORCED ELASTOMERIC)

The Sentinel Algaflex expansion joints are manufactured with rubber elements and are restrained to the structure with proper anchor bolts. The reinforcing metal profiles made of steel are completely inserted and vulcanised to the rubber. The Algaflex joint is also able to compensate height differences or vertical movements.

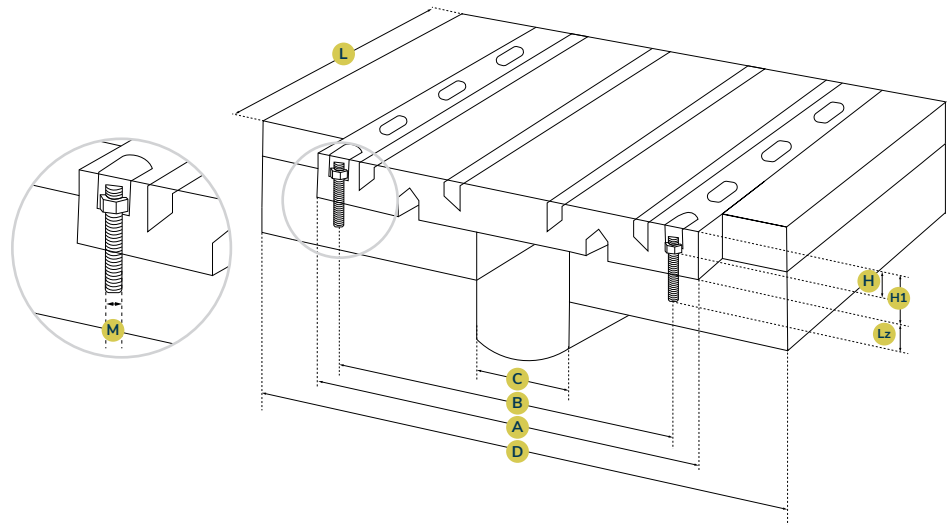


Key Features

- Simple and Linear Design
- Total impermeable
- Easy assembling on concrete or steel bridges
- Suitable for the replacement of existing joints
- Good resistance to vehicle sliding
- Vertical movements absorption
- Developed to withstand heavy volume trafficking on bridges and viaducts.
- Complies with CD357 and ETAG032
- Installed only by authorised and trained contractors

Physical Properties

Polymer	Natural Rubber		
Hardness	Shore A3	56/65	UNI ISO 7619-1
Tensile Strength	MPa	> 15,5	ISO 37
Elongation Break	%	> 350	ISO 37
Compression set of 25% - 24h at 70°C	%	< 20	ISO 815
Ozone resistance 50 p.p.h.m. 20% elongation after 96h at 40°C	No cracks at visual sight		ISO 1431-1
Brittleness temperature	°C	<-25	UNI ISO 812
Bond Test	N/mm	>10	UNI ISO 813
G Modulus	N/mm	0.9 + 15%	EN 1337-3 Annex F
Variation at going for 96h at 70°C- ISO 188-90			
Hardness	Shore A3	Max +10	ISO 7619-1
Tensile Strength	%	Max -15	ISO 37
Elongation Break	%	Max - 20	ISO 37



Movement range

Joint	Longitudinal Movement	Transversal Movement	A (mm)	B (mm)	C (mm)	D (mm)	L (mm)	Lz (mm)	H (mm)	H1 (mm)	M	OF (mm)
T50	+25	+25	280	220	45	450	2000	135	32	60	M12X190	14
T80	+40	+40	275	220	50	450	2000	140	42	70	M12X190	14
T100	+50	+50	355	280	60	520	2000	145	46	70	M14X200	16
T120	+60	+60	390	300	70	560	2000	140	53	80	M16X200	18
T160	+80	+80	470	370	90	640	2000	130	78	100	M16X200	18
T180	+90	+90	500	400	100	670	2000	130	82	110	M16X200	18
T140	+70	+70	590	500	80	750	2000	140	55	80	M16X200	18
T220	+110	+110	800	700	120	980	2000	150	69	100	M20X230	24
T270	+135	+135	890	790	150	1070	2000	150	78	110	M20X230	24
T330	+165	+165	1105	985	220	1290	1000	200	100	130	M24X300	27
T345	+160/185	+160/185	1260	1140	420	1450	1000	200	95	120	M24X300	27