



Expansion joints UBK

UBK 50 up to 350 mm

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• STRUCTURAL BEARINGS

• EXPANSION JOINTS

• SEISMIC PROTECTION and RETROFITTING

• MAINTENANCE
• RESTORATIONS
• LIFTINGS

• DISSIPATIVE BRACINGS and RECENTERING SMA DEVICES

• APPLICATION OF COMPOSITE MATERIALS (FRP)

• STRENGTHENING AND RETROFITTING OF MASONRY STRUCTURES (CAM System)

• RESEARCH

• DESIGN CONSULTING

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Reggio Emilia- Rotatoria Nord Bridge- Calatrava design



DUBAI - Palm Jumeirah



UBK type is a waterproofing expansion joint that allows deck movements from 50 until 350 mm longitudinally, until 300 mm transversally and 40 mm vertically, due to shear deformation of the rubber elements. The joint assures no shocks while driving, it is noiseless and performs a good adherence wheels. All the steel reinforcing plates are vulcanised into the rubber, completely wrapped by it so that corrosion is impossible. The long lasting life is assured by the rubber compound, resistant to oil, fuel, salt, sun, and abrasion. The installation is easy and quick because no interference occurs with the concrete structures. Each single element can be easily replaced. T.I.S. manufactures the UBK since 1980 and until now more than 200.000 meters have been installed in Italy and abroad.



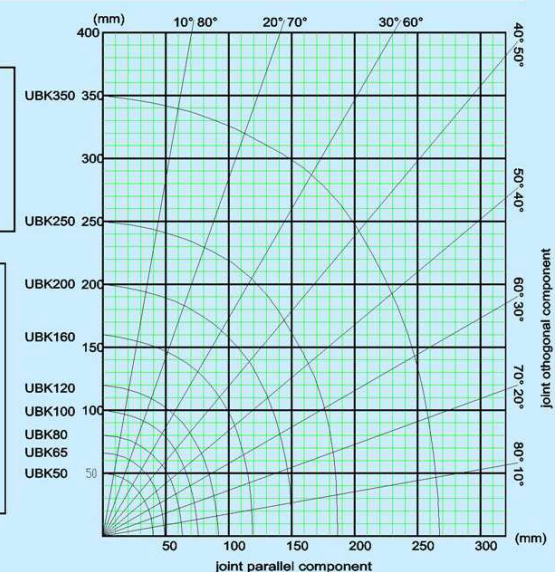
UBK 50, 65, 80, 100, 120, 160, 200, 250, 350

MOD.	s.l. (mm)	s.t. ⁽¹⁾ (mm)	L (mm)	W (mm)	t (mm)	P (kg)	c (mm)	b (mm)	M	i (trasv) (mm)	i (long) (mm)	d (mm)	h (mm)	n
UBK 50	±25	±20	1750	240	35	28	20+70	160	M12	190	250	15	130	14
UBK 65	±33	±25	1830	274	40	45	20+85	160	M14	220	305	16	130	12
UBK 80	±40	±30	1830	356	46	62	20+100	160	M14	279	305	16	125	12
UBK 100	±50	±35	1830	432	54	88	20+120	160	M16	342	305	18	120	12
UBK 120	±60	±50	1000	400	82	65	20+140	160	M16	280	200	18	115	10
UBK 160	±80	±70	1000	495	82	91	20+180	160	M16	395	200	18	115	10
UBK 200	±100	±90	1830	724	75	260	20+220	200	M20	618	305	22	150	12
UBK 250	±125	±110	1830	890	93	375	20+270	200	M24	787	305	30	140	12
UBK 350	±175	±175	1220	1207	127	438	20+370	250	M27	1080	305	32	180	8

NOTE 1: transversal movements are valid for joint in medium position

Material
Synthetic or natural rubber compound
Hot rolled steel
High resistance galvanized bolts
Joints can be produced for specific climatic conditions and/or standards.

s.l. = longitudinal movement
s.t. = transversal movement
L = panel's length
W = panel's width
t = panel's thickness
P = panel's weight
c = gap
b = length
M = anchor diameter
i (trans.) = transversal anchor interaxis
i (long.) = longitudinal anchor interaxis
d = Anchor hole diameter
h = Anchor hole depth
n = Number of anchors / panel



Reggio Emilia- Highway Overpass- Calatrava design

UBK R50 e UBK R75

MOD.	s.l. (mm)	L (mm)	W (mm)	t (mm)	P (kg)	c (mm)	b (mm)	M	i (trasv) (mm)	i (long) (mm)	d (mm)	h (mm)	n
UBK R50	±25	2000	280	30	38	20+70	160	M12	200	200	15	130	20
UBK R75	±38	2000	300	30	40	20+95	160	M12	220	200	15	130	20