

VPRENE TYPE B

Bearings of type B allow rotations and movements in both longitudinal and transversal directions and resist small horizontal loads (by friction)

Bearings according to European Standard EN 1337-3

BEARING DESIGNATION	$V_{max, ULS}$ (kN)	$V_{max, SLS}$ (kN)	ROUND ELASTOMERIC BEARING				SQUARE ELASTOMERIC BEARING			
			D (mm)	TH (mm)	u_{max} (mm)	α_{max} (mrad)	L/B (mm)	TH (mm)	u_{max} (mm)	α_{max} (mrad)
B-1000	1000	715	250	30	10	5	250	30	10	5
B-2000	2000	1429	350	41	10	5	300	41	10	5
B-3000	3000	2143	420	57	15	10	400	57	15	10
B-4000	4000	2858	480	73	15	10	450	57	15	10
B-5000	5000	3572	530	73	20	10	450	73	20	10
B-6000	6000	4286	580	73	20	10	500	73	20	10
B-7000	7000	5000	625	73	25	10	550	73	25	10
B-8000	8000	5715	670	94	25	10	600	94	25	10
B-9000	9000	6429	710	94	30	10	650	94	30	10
B-10000	10000	7143	750	94	30	10	650	94	30	10
B-11000	11000	7858	800	94	35	10	700	94	35	10
B-12000	12000	8572	825	94	35	10	750	94	35	10
B-13000	13000	9286	860	115	40	10	800	110	40	10
B-14000	14000	10000	890	115	40	10	850	110	40	10
B-15000	15000	10715	920	115	45	10	850	110	45	10
B-16000	16000	11429	950	115	45	10	900	110	45	10
B-17000	17000	12143	980	115	50	10	900	110	50	10
B-18000	18000	12858	1020	115	50	10	950	110	50	10
B-19000	19000	13572	1050	141	55	10	1000	135	55	10
B-20000	20000	14286	1080	141	55	10	1000	135	55	10

Bearings have been designed with the following parameters :

Concrete on deck is H40 ($f_{ck} = 40$ MPa)

Concrete on piers and abutment is H35 ($f_{ck} = 35$ MPa)

Bearing designation: bearing type – $V_{max, ULS}$ (kN)

Bearings can be manufactured using natural rubber (NR) or chloroprene rubber (CR)

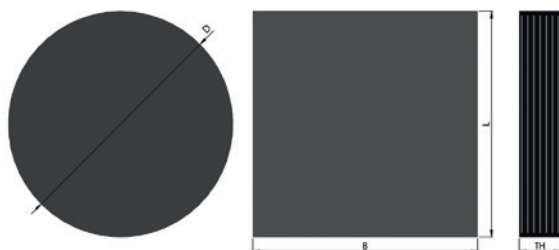
For safety against sliding the minimum pressure at ULS must be ≥ 3 N/mm²

u_{max} : maximum shear displacement in mm ($\pm$)

α_{max} : maximum rotation in mrad ($\pm$)

The dimensions given are indicative. Designs and dimensions may be modified by VSL without prior notification.

Other models and dimensions are available on request.



Notes

D = diameter

B = width

L = length

TH = total height