

VPRENE TYPE C

Bearings of type C allow rotations and movements in both longitudinal and transversal directions and resist higher horizontal loads by anchors or an equivalent method

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)	$\alpha_{\max}$ (mrad)	L/B (mm)	TH (mm)	$u_{\max}$ (mm)	$\alpha_{\max}$ (mrad)
C-1000	1000	715	250	49	10	5	250	49	10	5
C-2000	2000	1429	350	60	10	5	300	60	10	5
C-3000	3000	2143	420	84	15	10	400	84	15	10
C-4000	4000	2858	480	100	15	10	450	84	15	10
C-5000	5000	3572	530	100	20	10	450	100	20	10
C-6000	6000	4286	580	100	20	10	500	100	20	10
C-7000	7000	5000	625	100	25	10	550	100	25	10
C-8000	8000	5715	670	119	25	10	600	119	25	10
C-9000	9000	6429	710	119	30	10	650	119	30	10
C-10000	10000	7143	750	119	30	10	650	119	30	10
C-11000	11000	7858	800	119	35	10	700	119	35	10
C-12000	12000	8572	825	119	35	10	750	119	35	10
C-13000	13000	9286	860	140	40	10	800	135	40	10
C-14000	14000	10000	890	140	40	10	850	135	40	10
C-15000	15000	10715	920	138	45	10	850	135	45	10
C-16000	16000	11429	950	138	45	10	900	135	45	10
C-17000	17000	12143	980	138	50	10	900	135	50	10
C-18000	18000	12858	1020	138	50	10	950	135	50	10
C-19000	19000	13572	1050	164	55	10	1000	160	55	10
C-20000	20000	14286	1080	164	55	10	1000	160	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)

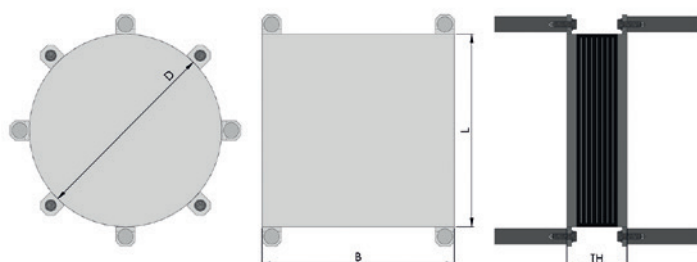
Non sliding condition is guaranteed by the anchoring system

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

$\alpha_{\max}$: 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