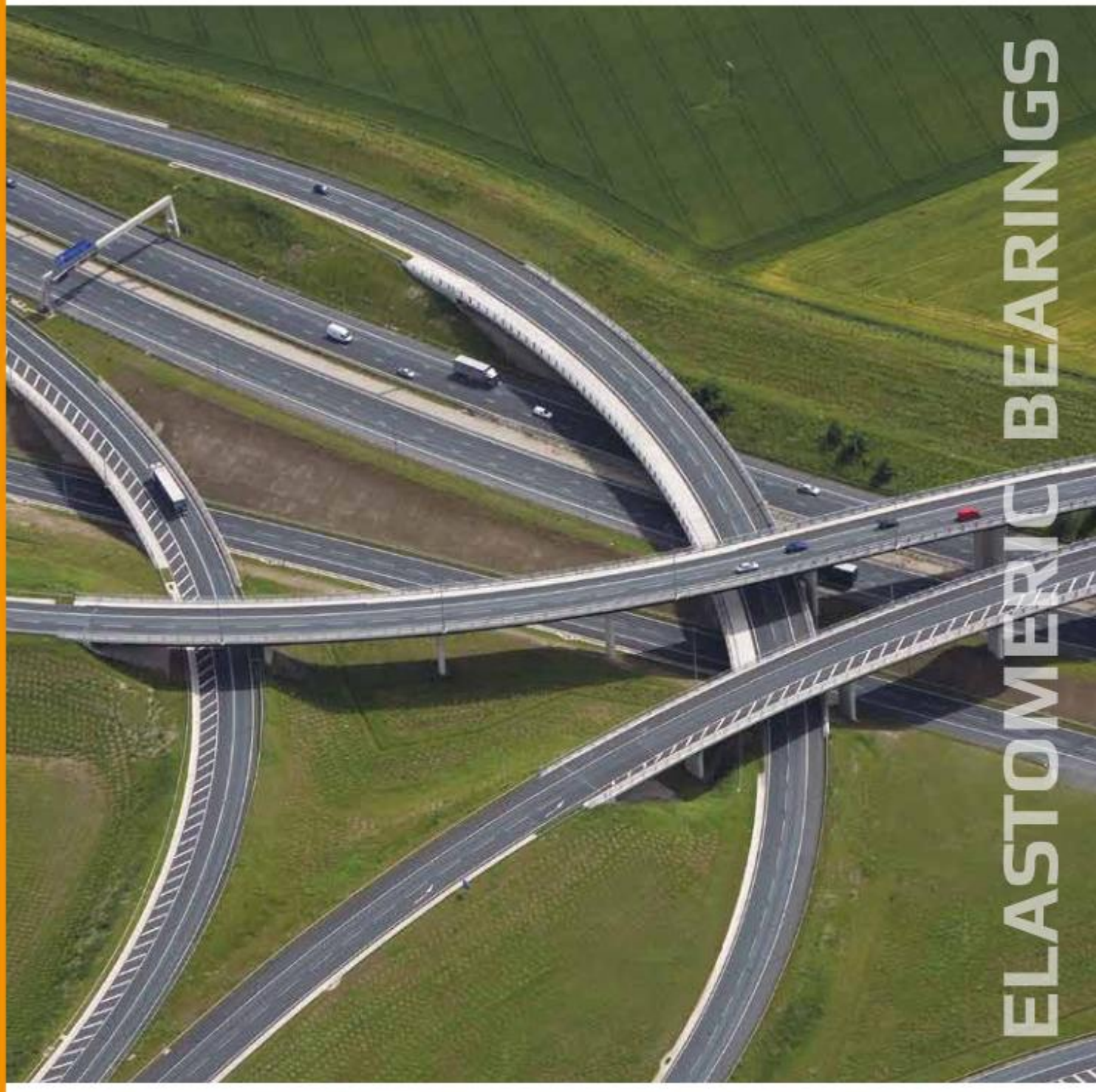
Arsan®

Precise Connections - since 1957



ELASTOMERIC BEARINGS

www.arsankaucuk.com.tr

Arsan is a leading manufacturer in Structural and Seismic Bearings, Expansion Joints and various type of Pipe Gaskets and Tunnel Segment Gaskets for infrastructure and building construction sectors.

Arsan continues to develop with its policy focused on continuous improvement since 1957. Research and development department of Arsan works on innovative projects continuously. Arsan's vision is to be worldwide reliable supplier of structural products. Currently, 60% of total production is exported and 85% of this turnover is generated from Europe. In addition to these European countries, Arsan exports to more than 50 other countries as well.

Structural bearings include all types of elastomeric bearings, guided and restraint bearings, pot bearings, spherical and cylindrical bearings. All types of structural bearings have CE Certificate.

Arsan supplies seismic isolation systems for bridges and buildings using lead rubber bearing (CE) and friction pendulum systems. Arsan test laboratory is equipped with to carry out qualification and acceptance tests on structural bearings and seismic isolators. The factory production control tests are carried out in Arsan Factory according to the project requirements specified in the standards or client requests.

Expansion joints for bridges comprises mat expansion joints, single gap expansion joints, and modular expansion joints. Expansion joint type and design are determined as per project requirements.

Expansion joint type and design are prepared according to project needs.

Tunnel segment gaskets are designed by Arsan engineers and offer excellent water pressure resistance. Various types of pipe gaskets are also provided.

Design and drawings of all structural products are prepared by Arsan Engineers. Thus, Arsan is a reliable manufacturer for structural products with its experience, capacity in manufacturing and efficient engineering solutions.

Arsan factory operates in its facility in Ferizli, Sakarya, with a closed area of 35,000 square meters on an area of 60,000 square meters

Arsan Factory is equipped with various production methods such as extrusion, compression and injection for rubber products.

Rubber compound tests are also performed in Arsan R&D laboratory. Moreover, most tools required to produce rubber products are built in house with metal machining.

In addition, designing and producing molds, machining and assembly of structural bearings and expansion joints are completed by Arsan.


Arsan

ARSAN ELASTOMERIC BEARINGS IN TURKEY AND ALL AROUND THE WORLD

Elastomeric bearings are most common structural link elements for bridge and viaducts today. They are manufactured in compression presses by vulcanization of inner steel plates between rubber layers. Also, rubbers used in elastomeric bearings can be NR (Natural Rubber) or CR (Chloroprene) according to project requirements.

Arsan Elastomeric Bearings are fully compatible with EN standards (EN 1337) and have CE certificate so means that the manufacturing facilities are systematically and regularly inspected by an independent certification body. The CE certificate proves that all requirements of the relevant European Standard are fulfilled during design and production of bearings. Besides to EN 1337 standards, Arsan can design and manufacture elastomeric bearings according to AASHTO LRFD, BS 5400, DIN 4141 and AS 5100.

Elastomeric bearings can be manufactured as square, rectangular or cylindrical shapes. Also, Arsan produces elliptical shape elastomeric bearings, too.

Arsan test laboratory is equipped with to carry out qualification and acceptance tests on elastomeric bearings. The factory production control tests are carried out in ARSAN laboratories according to the project requirements specified in the standards or on client request.

Design and drawings of all elastomeric bearing types are prepared by Arsan Engineers. Manufacturing of these bearings is processed in Arsan Factory in Turkey.

Arsan is a reliable manufacturer for structural products with its experience, capacity in manufacturing and efficient engineering solutions.

STANDARTS OF ELASTOMERIC BEARINGS

- BS 5400
- DIN 4141
- TS-ISO 6446
- AASHTO-M251
- EN-1337-3
- AS 5100-4
- EN-15129

TESTING COMPOUND / BEARING

- Tensile Strength and elongation
- Hardness
- Tear Strength
- Low Temperature Resistance
- Rheometer Test
- Ageing In Liquids
- Abrasion Resistance
- Ash Content
- Bonding Test
- Stress Relaxation
- Moisture Measurement
- Compressive Stiffness Test
- Shear Stiffness Test
- Ageing


Certificate of Approval

ARSAN KALIÇUK İÇ VE DIŞ TİC. A.Ş


TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

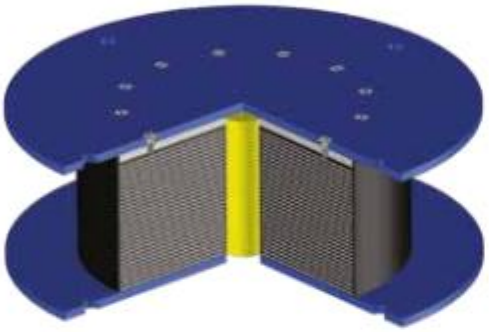

Certificate of Approval

ARSAN KALIÇUK İÇ VE DIŞ TİC. A.Ş


CERTIFICATE

ELASTOMERIC BEARINGS

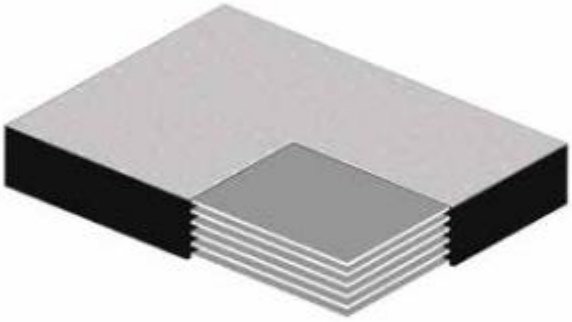
EN 1337-3:2005



LRB (Lead Rubber Bearing)
The most important part of the LRB is to give the first reaction at the center under the horizontal load. The load is met, first from the lead core, the bed covering the core answers to the reactions right after the maximum damping capacity.

This kind of bearings with higher damping capacity have an active role in analyzing base points of both today's and tomorrow's structures. The purity rate of the lead core in LRB Isolators is 99.9%. If the rate stays under this value, the isolator can not make the desired damping and also it will not give the same reaction to continuous transactions.

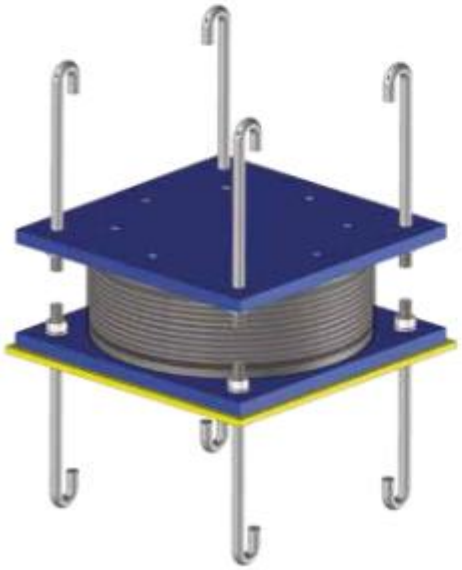
In structures, bridges and buildings with using seismic bearings the movements and effects are 50 % less than normal bearings. This situation really supports that the LRB Isolators are acting correctly for the right purpose.



Sliding Bearing
Sliding Bearings are playing a big and active role in structures. Sliding Bearings with PTFE plates are used in structures where less vertical but more horizontal load is required.

For all the sliding bearings with PTFE plates; steel plates must be used that will not harm the sliding. Generally, you may see this kind of bearings in buildings, shopping malls and bridges.

The horizontal load never impacts these type of bearings. The horizontal load is directly transferred into the oil rooms that takes place on PTFE materials with silicone oil, that can protect its own integrity and also decrease the friction with stainless plate.

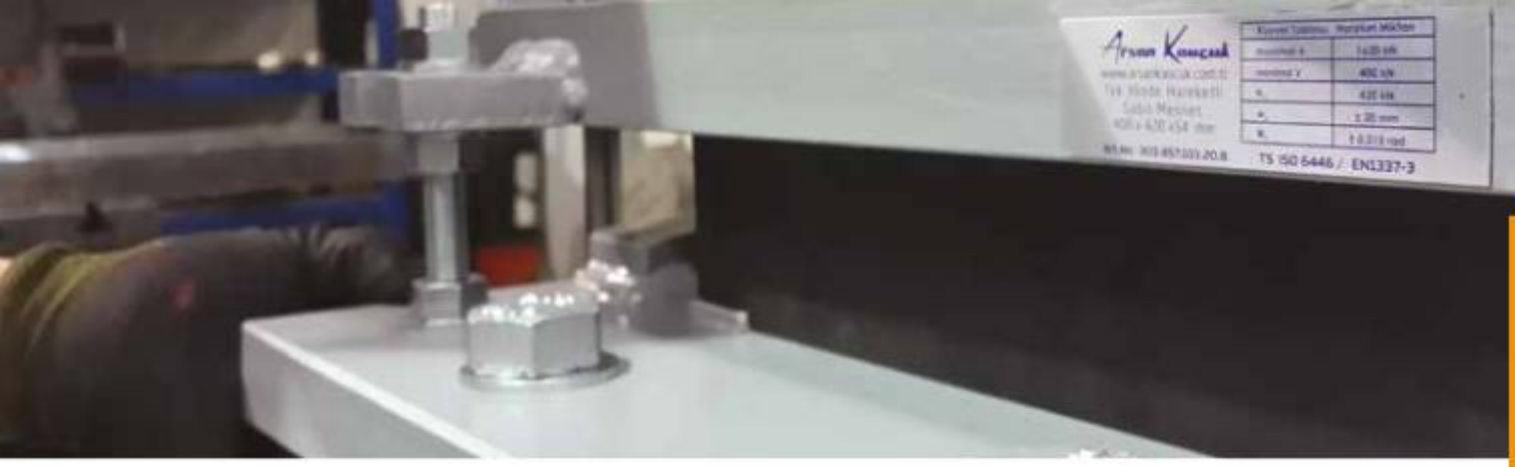


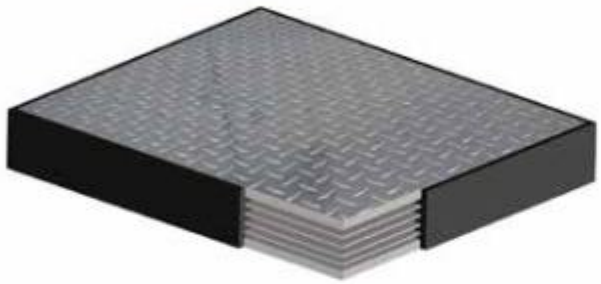
HDRB (High Damping Rubber Bearing)
There are two main important characteristics that separates HDRB bearings from other bearings:

1.Giving low rigid values when high natural lasting period is desired.
2.Having the ability of movement during earthquakes more than other kind of bearings.

HDRB with its rubber contents ad ingredients; has the ability to damp, much higher vertical load on greater surface. These are quite flexible and have the ability for higher damping.

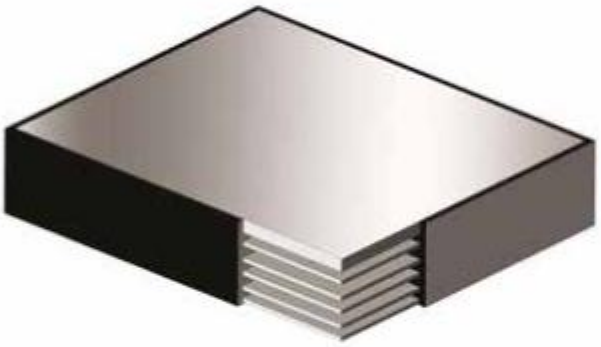
As a result of the special compound used in HDRB, values like damping are much higher than the other bearings.





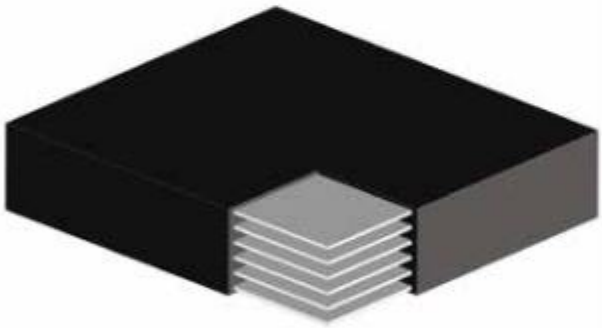
Type 5 (Type CR)

Similar to Type 2, but top and bottom surfaces with checkered plates



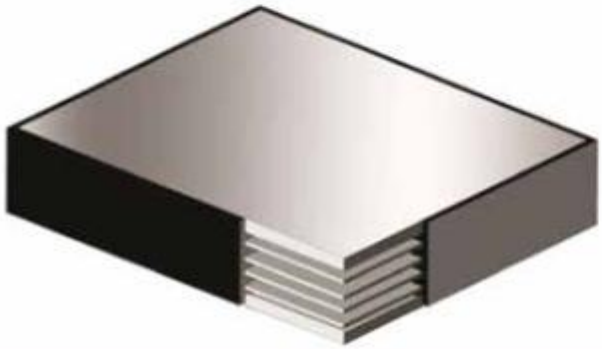
Type 1/2 (Type B-C)

Similar to Type 2, with vulcanized steel plate on one surface



Type 1 (Type B)

Steel reinforced elastomeric bearing, with no anchorage



Type 2 (Type C)

Similar to Type 1, additionally top and bottom surfaces with anchorage plates

*Rectangular or circular sectioned, sliding, teflon coated and anchoraged bearings for all above mentioned types can be manufactured according to our client's requirements.

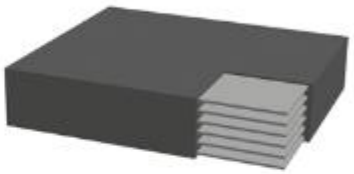
PHYSICAL PROPERTIES ACCORDING TO THE STANDARDS

PHYSICAL PROPERTIES	AASHTO-M251						BS5400		
RUBBER TYPE	NR			CR			NR		
HARDNESS	50±5 ShrA	60±5 ShrA	70±5 ShrA	50±5 ShrA	60±5 ShrA	70±5 ShrA	50±5 ShrA	60±5 ShrA	70±5 ShrA
TENSILE STRENGTH	≥15,5 Mpa	≥15,5 Mpa	≥15,5 Mpa	≥15,5 Mpa	≥15,5 Mpa	≥15,5 Mpa	≥15,5 N/mm²	≥15,5 Mpa	≥15,5 Mpa
ELONGATION AT BREAK	≥450%	≥400%	≥300%	≥400%	≥350%	≥300%	≥450%	≥400%	≥300%
RUBBER-METAL BOND STRENGTH	≥6,9 kN/mm	≥6,9 kN/mm	≥6,9 kN/mm	≥6,9 kN/mm	≥6,9 kN/mm	≥6,9 kN/mm	≥7 N/mm	≥7 N/mm	≥7 N/mm
TEAR STRENGTH	-	-	-	-	-	-	-	-	-
COMPRESSION SET	70°C 22 hour			100°C 22 hour			70°C 22 hour		
	≤25%	≤25%	≤25%	≤35%	≤35%	≤35%	≤30%	≤30%	≤30%
AGEING	70°C 168 hour			100°C 70 hour			70°C 7 days		
INCREASE IN HARDNESS	+10	+10	+10	+15	+15	+15	+10	+10	+10
CHANGE IN TENSILE STRENGTH	≤-25%	≤-25%	≤-25%	≤-15%	≤-15%	≤15%	≤15%	≤15%	≤15%
CHANGE IN ELONGATION	≤-25%	≤-25%	≤-25%	≤-40%	≤-40%	≤20%	≤20%	≤20%	≤20%
OZONE RESISTANCE	37,7°C, %20 elongation, 25 pphm, 48 hour			37,7°C, %20 elongation, 100 pphm, 100 hour			30°C, %20 elongation, 25 pphm, 96 hour		
	No Crack	No Crack	No Crack	No Crack	No Crack	No CrackYok	No Crack	No Crack	No Crack

BS5400			DIN 4141		EN 1337-3					
CR			CR On Plate	CR On Product	NR			CR		
50±5 IRHD	60±5 IRHD	70±5 IRHD	60±5 ShrA	60±5 ShrA	50±5 IRHD	60±5 IRHD	70±5 IRHD	50±5 IRHD	60±5 IRHD	70±5 IRHD
≥15,5 N/mm²	≥15,5 N/mm²	≥15,5 N/mm²	≥19 N/mm²	≥13 N/mm²	≥16 Mpa	≥16 Mpa	≥16 Mpa	≥16 Mpa	≥16 Mpa	≥16 Mpa
≥400%	≥350%	≥300%	≥450%	≥300%	≥450%	≥425%	≥450%	≥450%	≥425%	≥300%
≥7 N/mm	≥7 N/mm	≥7 N/mm	-	-	-	-	-	-	-	-
-	-	-	≥10 kN/mm	≥10 kN/mm	≥5 kN/mm	≥8 kN/mm	≥5 kN/mm	≥7 kN/mm	≥10 kN/mm	≥12 kN/mm
100°C 22 hour			70°C 24 hour		70°C 24 hour			70°C 24 hour		
≤35%	≤35%	≤35%	≤15%	≤20%	≤30%	≤30%	≤30%	≤15%	≤15%	≤15%
100°C 3 days			70°C 7 days		70°C 7 days			100°C 3 days		
+15	+15	+15	+5	+5	-5+10	-5+10	-5+10	±5	±5	±5
≤15%	≤15%	≤15%	≤15%	≤15%	±15	±15	±15	±15	±15	±15
≤40%	≤40%	≤40%	≤25%	≤25%	±25	±25	±25	±25	±25	±25
30°C, %20 elongation, 25 pphm, 96 hour			40°C, %30 elongation, 200 pphm, 96 hour		40°C, %30 elongation 25 pphm, 96 hour			40°C, %30 elongation 100 pphm, 96 hour		
No Crack	No Crack	No Crack	No Crack	No Crack	No Crack	No Crack	No Crack	No Crack	No Crack	No Crack

Type B

a: Width og bearing
b: Length of bearing
h: Height of bearing
d: Diameter
H_e: Total thickness of elastomer layers
K_z: Vertical compressive deflection
K_{xy}: Horizontal compressive deflection
N_d: Vertical force
N_{dmin}: Vertical force with concrete connection
N_{dmin}: Vertical force with steel connection
V_{xyd}: Horizontal displacement
$V_{xy,max}$: Maximum horizontal displacement
α_{ab}: Rotation



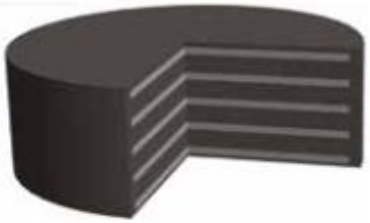
Bearing Dimensions / Parameters							Condition 1: v_{xyd}=20%.$v_{xy,max}$				Condition 2: v_{xyd}=50%.$v_{xy,max}$				Condition 3: v_{xyd}=100%.$v_{xy,max}$			
a	b	h	H_e	Weight	K_z	K_{xy}	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	α_{ab}	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	α_{ab}	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	α_{ab}
(mm)	(mm)	(mm)	(mm)	(kg)	(kN/mm)	(kN/mm)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)
100	150	30	21	1.4	33.2	0.64	114	(38/38)	4.2	3.1	106	(35/35)	10.5	2.7	92	(34/68)	21.0	2.1
100	150	41	29	1.8	24.0	0.47	81	(37/37)	5.8	5.1	73	(34/34)	14.5	5.4	59	(34/68)	29.0	4.4
100	200	30	21	1.8	55.3	0.86	172	(51/51)	4.2	2.0	159	(47/48)	10.5	1.7	139	(45/90)	21.0	1.3
100	200	41	29	2.5	40.1	0.62	122	(50/50)	5.8	4.4	110	(45/45)	14.5	4.0	89	(45/90)	29.0	3.3
150	200	30	21	2.8	143.7	1.29	547	(80/80)	4.2	0.0	502	(76/76)	10.5	0.0	426	(70/135)	21.0	0.0
150	200	41	29	3.8	104.0	0.93	391	(79/79)	5.8	1.8	366	(74/74)	14.5	1.6	325	(68/135)	29.0	1.0
150	200	52	37	4.8	81.5	0.73	303	(78/78)	7.4	3.8	278	(72/72)	18.5	3.4	236	(68/135)	37.0	2.7
150	250	30	21	3.5	215.2	1.61	756	(101/101)	4.2	0.0	694	(96/96)	10.5	0.0	589	(88/169)	21.0	0.0
150	250	41	29	4.8	155.8	1.16	541	(99/99)	5.8	1.3	507	(93/93)	14.5	1.0	449	(85/169)	29.0	0.7
150	250	52	37	6.0	122.2	0.91	419	(98/98)	7.4	2.7	384	(90/90)	18.5	2.4	327	(85/169)	37.0	2.0
150	300	30	21	4.2	293.3	1.93	974	(121/121)	4.2	0.0	894	(116/116)	10.5	0.0	759	(106/203)	21.0	0.0
150	300	41	29	5.7	212.4	1.40	697	(120/120)	5.8	1.0	653	(112/112)	14.5	0.7	578	(102/203)	29.0	0.6
150	300	52	37	7.2	166.5	1.09	540	(118/118)	7.4	2.0	495	(109/109	18.5	1.8	421	(102/203)	37.0	1.4
200	250	41	29	6.4	293.3	1.55	1197	(136/136)	5.8	0.0	1'120	(129/129)	14.5	0.0	950	(119/225)	29.0	0.0
200	250	52	37	8.0	229.9	1.22	930	(135/135)	7.4	1.1	874	(126/126)	18.5	1.0	781	(113/225)	37.0	0.6
200	250	63	45	9.7	189.0	1.00	758	(133/133)	9.0	2.4	702	(124/124)	22.5	2.1	609	(113/225)	45.0	1.6
200	250	74	53	11.3	160.5	0.85	638	(132/132)	10.6	3.5	582	(121/121)	26.5	3.3	489	(113/225)	53.0	2.7
200	300	41	29	7.7	407.9	1.86	1'563	(164/164)	5.8	0.0	1'463	(156/156)	14.5	0.0	1'240	(143/270)	29.0	0.0
200	300	52	37	9.7	319.7	1.46	1'212	(162/162)	7.4	0.8	1'141	(152/152)	18.5	0.7	1'020	(136/270)	37.0	0.4
200	300	63	45	11.7	262.9	1.20	990	(161/161)	9.0	1.8	917	(149/149)	22.5	1.6	795	(135/270)	45.0	1.3
200	300	74	53	13.6	223.2	1.02	833	(159/159)	10.6	2.8	760	(145/145)	26.5	2.5	638	(135/270)	53.0	2.1
200	350	41	29	9.0	531.2	2.17	1'944	(192/192)	5.8	0.0	1'819	(183/183)	14.5	0.0	1'542	(168/315)	29.0	0.0
200	350	52	37	11.3	416.4	1.70	1'510	(190/190)	7.4	0.7	1'419	(179/179)	18.5	0.6	1'268	(160/315)	37.0	0.3
200	350	63	45	13.6	342.4	1.40	1'231	(188/188)	9.0	1.4	1'140	(174/174)	22.5	1.3	989	(158/315)	45.0	1.0
200	350	74	53	16.0	290.7	1.19	1'036	(187/187)	10.6	2.3	945	(170/170)	26.5	2.0	794	(158/315)	53.0	1.6
200	400	41	29	10.3	661.2	2.48	2'335	(219/219)	5.8	0.0	2'185	(209/209)	14.5	0.0	1'852	(192/360)	29.0	0.0
200	400	52	37	13.0	518.2	1.95	1'814	(218/218)	7.4	0.6	1'705	(205/205)	18.5	0.4	1'523	(183/360)	37.0	0.3
200	400	63	45	15.6	426.1	1.60	1'479	(216/216)	9.0	1.1	1'370	(200/200)	22.5	1.0	1'188	(180/360)	45.0	0.7
200	400	74	53	18.3	361.8	1.36	1'244	(214/214)	10.6	1.7	1'135	(195/195)	26.5	1.6	953	(180/360)	53.0	1.3
250	300	41	29	9.7	650.0	2.33	2'327	(207/207)	5.8	0.0	2'142	(200/200)	14.5	0.0	1'851	(187/338)	29.0	0.0
250	300	52	37	12.2	509.5	1.82	2'223	(206/206)	7.4	0.0	2'105	(196/196)	18.5	0.0	1'782	(180/338)	37.0	0.0
250	300	63	45	14.6	418.9	1.50	1'815	(205/205)	9.0	0.8	1'710	(193/193)	22.5	0.7	1'535	(173/338)	45.0	0.3
250	300	74	53	17.1	355.7	1.27	1'530	(203/203)	10.6	1.7	1'425	(189/189)	26.5	1.4	1'250	(169/338)	53.0	1.0
250	300	85	61	19.6	3090	1.11	1'321	(202/202)	12.2	2.4	1'215	(186/186)	30.5	2.1	1'040	(169/338)	61.0	1.7
250	400	41	29	12.9	1075.7	3.10	3'138	(278/278)	5.8	0.1	3'022	(268/268)	14.5	0.0	2'810	(251/450)	29.0	0.0
250	400	52	37	16.3	843.1	2.43	3'117	(276/276)	7.4	0.1	2'596	(263/263)	18.5	0.1	2'705	(242/450)	37.0	0.0
250	400	63	45	19.6	693.2	2.00	2'756	(275/275)	9.0	0.6	2'969	(259/259)	22.5	0.4	2'330	(232/450)	45.0	0.1
250	400	74	53	22.9	5886	1.70	2'323	(273/273)	10.6	1.1	2'164	(254/254)	26.5	1.0	1'898	(225/450)	53.0	0.7
250	400	85	61	26.3	511.4	1.48	2'005	(271/271)	12.2	1.7	1'845	(249/249)	30.5	1.4	1'579	(225/450)	61.0	1.1
300	400	57	41	21.1	550.6	2.63	3'164	(334/334)	8.2	0.0	2'894	(320/320)	20.5	0.0	2'469	(296/540)	41.0	0.0
300	400	73	53	26.7	425.9	2.04	2'542	(331/331)	10.6	0.8	2'398	(313/313)	26.5	0.6	2'159	(282/540)	53.0	0.3
300	400	89	65	32.3	347.3	1.66	2'055	(329/329)	13.0	1.8	1'911	(306/306)	32.5	1.7	1'672	(270/540)	65.0	1.3
300	400	105	77	37.8	293.2	1.40	1'720	(326/326)	15.4	3.0	1'576	(299/299)	38.5	2.7	1'337	(270/540)	77.0	2.3
300	500	57	41	26.5	812.6	3.29	4'206	(419/419)	8.2	0.0	3'977	(401/401)	20.5	0.0	3'394	(371/675)	41.0	0.0

*Our company is able to design and produce the bearings on customer demand based to given project loads and technical values.

Bearing Dimensions / Parameters							Condition 1: v_{xyd}=20%.$v_{xy,max}$				Condition 2: v_{xyd}=50%.$v_{xy,max}$				Condition 3: v_{xyd}=100%.$v_{xy,max}$			
a	b	h	H_e	Weight	K_z	K_{xy}	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab
(mm)	(mm)	(mm)	(mm)	(kg)	(kN/mm)	(kN/mm)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)
300	500	73	53	33.5	628.6	2.55	3'494	(416 / 416)	10.6	0.6	3'296	(392 / 392)	26.5	0.4	2'967	(353 / 675)	53.0	0.1
300	500	89	65	40.4	512.6	2.08	2'824	(412 / 412)	13.0	1.4	2'627	(384 / 384)	32.5	1.1	2'298	(338 / 675)	65.0	0.8
300	500	105	77	47.4	432.7	1.75	2'364	(409 / 409)	15.4	2.1	2'166	(375 / 375)	38.5	2.0	1'837	(338 / 675)	77.0	1.6
300	600	57	41	31.8	1'095.9	3.95	5'061	(505 / 505)	8.2	0.1	4'842	(483 / 483)	20.5	0.0	4'358	(446 / 810)	41.0	0.0
300	600	73	53	40.2	847.7	3.06	4'486	(500 / 500)	10.6	0.4	4'233	(472 / 472)	26.5	0.3	3'810	(425 / 810)	53.0	0.1
300	600	89	65	48.6	691.2	2.49	3'627	(496 / 496)	13.0	1.0	3'373	(461 / 461)	32.5	0.8	2'951	(405 / 810)	65.0	0.7
300	600	105	77	57.0	583.5	2.10	3'035	(492 / 492)	15.4	1.6	2'782	(451 / 451)	38.5	1.4	2'359	(405 / 810)	77.0	1.1
350	450	57	41	27.8	935.0	3.46	4'445	(443 / 443)	8.2	0.1	4'281	(427 / 427)	20.5	0.0	3'847	(400 / 709)	41.0	0.0
350	450	73	53	35.2	723.3	2.67	4'413	(440 / 440)	10.6	0.3	4'201	(419 / 419)	26.5	0.0	3'694	(384 / 709)	53.0	0.0
350	450	89	65	42.5	589.8	2.18	3'688	(437 / 437)	13.0	1.0	3'469	(411 / 411)	32.5	0.7	3'105	(368 / 709)	65.0	0.4
350	450	105	77	49.8	497.9	1.84	3'090	(434 /434)	15.4	1.8	2'872	(403 / 403)	38.5	1.6	2'507	(355 / 709)	77.0	1.1
350	450	121	89	57.2	430.8	1.59	2'654	(430 / 430)	17.8	2.7	2'435	(395 / 395)	44.5	2.4	2'071	(355 / 709)	89.0	1.8
400	500	73	53	44.8	1'141.0	3.40	5'653	(563 / 563)	10.6	0.4	5'417	(540 / 540)	26.5	0.3	5'025	(501 / 900)	53.0	0.1
400	500	89	65	54.1	930.4	2.77	5'617	(560 / 560)	13.0	0.6	5'328	(531 / 531)	32.5	0.4	4'847	(483 / 900)	65.0	0.1
400	500	105	77	63.5	785.4	2.34	5'144	(556 /556)	15.4	1.0	4'829	(522 / 522)	38.5	0.8	4'303	(465 / 900)	77.0	0.4
400	500	121	89	72.8	679.5	2.02	4'422	(553 / 553)	17.8	1.7	4'107	(513 / 513)	44.5	1.4	3'581	(450 / 900)	89.0	1.1
400	500	137	101	82.1	598.8	1.78	3'872	(549 / 549)	20.2	2.4	3'556	(505 / 505)	50.5	2.1	3'030	(450 / 900)	101.0	1.7
400	600	73	53	53.8	1'563.0	4.08	6'802	(678 / 678)	10.6	0.4	6'519	(650 / 650)	26.5	0.4	6'046	(603 / 1'080)	53.0	0.3
400	600	89	65	65.0	1'274.5	3.32	6'759	(674 / 674)	13.0	0.6	6'412	(639 / 639)	32.5	0.4	5'832	(581 / 1'080)	65.0	0.3
400	600	105	77	76.3	1'075.8	2.81	6'691	(669 / 669)	15.4	0.7	6'281	(628 / 628)	38.5	0.6	5'597	(560 / 1'080)	77.0	0.4
400	600	121	89	87.5	930.8	2.43	5'752	(665 / 665)	17.8	1.3	5'342	(618 / 618)	44.5	1.1	4'658	(540 / 1'080)	89.0	0.8
400	600	137	101	98.7	820.2	2.14	5'036	(661 / 661)	20.2	1.8	4'626	(607 /607)	50.5	1.6	3'942	(540 / 1'080)	101.0	1.3
450	600	73	53	60.6	1'975.8	4.58	7'694	(767 / 767)	10.6	0.6	7'410	(738 / 738)	26.5	0.4	6'938	(691 / 1'215)	53.0	0.3
450	600	89	65	73.3	1'611.0	3.74	7'651	(762 / 762)	13.0	0.7	7'303	(728 / 728)	32.5	0.6	6'724	(670 / 1'215)	65.0	0.4
450	600	105	77	85.9	1'360.0	3.16	7'608	(758 / 758)	15.4	0.8	7'196	(717 / 717)	38.5	0.7	6'510	(649 / 1'215)	77.0	0.4
450	600	121	89	98.5	1'176.6	2.73	7'565	(754/ 754)	17.8	1.0	7'089	(706 / 706)	44.5	0.8	6'296	(627 / 1'215)	89.0	0.6
450	600	137	101	111.2	1'036.8	2.41	6'913	(750 / 750)	20.2	1.4	6'416	(696 / 696)	50.5	1.1	5'589	(608 / 1'215)	101.0	0.8
450	600	153	113	123.8	926.7	2.15	6'144	(745 / 745)	22.6	1.8	5'647	(685 / 685)	56.5	1.7	4'819	(608 / 1'215)	113.0	1.3
500	600	73	53	67.4	2'417.8	5.09	8'586	(855 / 855)	10.6	0.6	8'302	(827 / 827)	26.5	0.4	7'829	(780 / 1'350)	53.0	0.3
500	600	89	65	81.5	1'971.5	4.15	8'543	(851 / 851)	13.0	0.7	8'195	(817 / 817)	32.5	0.6	7'615	(759 / 1'350)	65.0	0.4
500	600	105	77	95.5	1'664.2	3.51	8'500	(847 / 847)	15.4	0.8	8'088	(806 / 806)	38.5	0.7	7'401	(738 / 1'350)	77.0	0.6
500	600	121	89	109.6	1'439.8	3.03	8'457	(843 /843)	17.8	1.0	7'981	(795 / 795)	44.5	0.8	7'187	(716 / 1'350)	89.0	0.7
500	600	137	101	123.6	1'268.8	2.67	8'414	(838 / 838)	20.2	1.3	7'874	(785 / 785)	50.5	1.0	6'973	(695 / 1'350)	101.0	0.7
500	600	153	113	137.7	1'134.0	2.39	8'127	(834 / 834)	22.6	1.4	7'540	(774 / 774)	56.5	1.3	6'562	(675 / 1'350)	113.0	1.0
500	600	169	125	151.7	1'025.2	2.16	7'309	(830 / 830)	25.0	1.8	6'722	(763 / 763)	62.5	1.7	5'744	(675 / 1'350)	125.0	1.4
600	600	94	69	102.6	1'639.9	4.70	9'668	(1'027 / 1'027)	13.8	0.7	9'322	(991 / 991)	34.5	0.6	8'745	(929 / 1'620)	69.0	0.3
600	600	115	85	124.2	1'331.2	3.81	9'614	(1'022 / 1'022)	17.0	0.8	9'188	(976 / 976)	42.5	0.7	8'477	(901 / 1'620)	85.0	0.4
600	600	136	101	145.8	1'120.4	3.21	9'561	(1'016 / 1'016)	20.2	1.0	9'054	(962 / 962)	50.5	0.8	8'210	(873 / 1'620)	101.0	0.4
600	600	157	117	167.4	967.1	2.77	9'452	(1'010 / 1'010)	23.4	1.1	8'869	(948 / 948)	58.5	1.0	7'896	(844 / 1'620)	117.0	0.6
600	600	178	133	189.0	850.8	2.44	8'268	(1'005 / 1'005)	26.6	1.8	7'685	(934 / 934)	66.5	1.6	6'712	(816 / 1'620)	133.0	1.3
600	600	199	149	210.6	759.4	2.17	7'339	(999 / 999)	29.8	2.5	6'755	(920 / 920)	74.5	2.3	5'783	(810 / 1'620)	149.0	1.8
600	700	94	69	119.9	2'170.5	5.48	11'301	(1'201 / 1'201)	13.8	0.7	10'896	(1'158 / 1'158)	34.5	0.6	10'222	(1'086 / 1'890)	69.0	0.4
600	700	115	85	145.1	1'761.9	4.45	11'238	(1'194 / 1'194)	17.0	0.8	10'740	(1'141 / 1'141)	42.5	0.7	9'909	(1'053 / 1'890)	85.0	0.4
600	700	136	101	170.3	1'482.8	3.74	11'176	(1'188 / 1'188)	20.2	1.0	10'583	(1'125 / 1'125)	50.5	0.8	9'596	(1'020 / 1'890)	101.0	0.6
600	700	157	117	195.5	1'280.0	3.23	11'113	(1'181 / 1'181)	23.4	1.1	10'427	(1'108 / 1'108)	58.5	1.0	9'284	(987 / 1'890)	117.0	0.7
600	700	178	133	220.8	1'126.0	2.84	10'418	(1'174 / 1'174)	26.6	1.6	9'683	(1'091 / 1'091)	66.5	1.4	8'457	(953 / 1'890)	133.0	1.0
600	700	199	149	246.0	1'005.1	2.54	9'246	(1'168 / 1'168)	29.8	2.1	8'511	(1'075 / 1'075)	74.5	2.0	7'286	(945 / 1'890)	149.0	1.6
700	700	94	69	140.0	2'890.7	6.39	13'255	(1'408 /1'408)	13.8	0.7	12'851	(1'365 / 1'365)	34.5	0.6	12'176	(1'294 / 2'205)	69.0	0.4
700	700	115	85	169.5	2'346.6	5.19	13'193	(1'402 / 1'402)	17.0	0.8	12'694	(1'349 / 1'349)	42.5	0.7	11'864	(1'261 / 2'205)	85.0	0.6
700	700	136	101	198.9	1'974.9	4.37	13'130	(1'395 / 1'395)	20.2	1.0	12'538	(1'332 / 1'332)	50.5	0.8	11'551	(1'227 / 2'205)	101.0	0.7
700	700	157	117	228.4	1'704.8	3.77	13'068	(1'389 / 1'389)	23.4	1.3	12'382	(1'316 / 1'316)	58.5	1.1	11'238	(1'194 / 2'205)	117.0	0.8
700	700	178	133	257.8	1'499.7	3.32	13'005	(1'382 / 1'382)	26.6	1.4	12'225	(1'299 / 1'299)	66.5	1.3	10'926	(1'161 / 2'205)	133.0	1.0
700	700	199	149	287.3	1'338.7	2.96	12'943	(1'375 / 1'375)	29.8	1.6	12'069	(1'282 / 1'282)	74.5	1.4	10'613	(1'128 / 2'205)	149.0	1.0
700	700	220	165	316.7	1'208.9	2.67	12'407	(1'369 / 1'369)	33.0	1.8	11'475	(1'266 / 1'266)	82.5	1.7	9'922	(1'103 / 2'205)	165.0	1.3
700	800	94	69	160.1	3'663.1	7.30	15'171	(1'612 / 1'612)	13.8	0.7	14'708	(1'563 / 1'563)	34.5	0.6	13'936	(1'481 / 2'520)	69.0	0.4
700	800	115	85	193.8	2'973.6	5.93	15'099	(1'604 / 1'604)	17.0	0.8	14'529	(1'544 / 1'544)	42.5	0.7	13'578	(1'443 / 2'520)	85.0	0.6
700	800	136	101	227.5	2'502.5	4.99	15'028	(1'597 / 1'597)	20.2	1.0	14'350	(1'525 / 1'525)	50.5	0.8	13'220	(1'405 / 2'520)	101.0	0.7
700	800	157	117	261.2	2'160.3	4.31	14'956	(1'589 / 1'589)	23.4	1.1	14'171	(1'506 / 1'506)	58.5	1.0	12'862	(1'367 / 2'520)	117.0	0.8
700	800	178	133	294.9	1'900.4	3.79	14'885	(1'581 / 1'581)	26.6	1.4	13'992	(1'487 /1'487)	66.5	1.1	12'504	(1'329 / 2'520)	133.0	1.0
700	800	199	149	328.6	1'696.3	3.38	14'813	(1'574 / 1'574)	29.8	1.6	13'813	(1'468 /1'468)	74.5	1.4	12'147	(1'291 / 2'520)	149.0	1.1
700	800	220	165	362.3	1'531.8	3.05	14'741	(1'566 / 1'566)	33.0	1.7	13'634	(1'449 /1'449)	82.5	1.6	11'789	(1'260 / 2'520)	165.0	1.1
800	800	110	85	197.0	2'666.7	6.78	13'869	(1'842 /1'842)	17.0	1.0	13'413	(1'781 / 1'781)	42.5	0.8	12'652	(1'680 / 2'880)	85.0	0.7
800	800	135	105	239.0	2'158.7	5.49	13'797	(1'832 / 1'832)	21.0	1.3	13'234	(1'758 / 1'758)	52.5	1.1	12'294	(1'633 / 2'880)	105.0	1.0
800	800	160	125	280.9	1'813.3	4.61	13'726	(1'823 / 1'823)	25.0	1.6	13'055	(1'734 / 1'734)	62.5	1.4	11'936	(1'585 / 2'880)	125.0	1.1
800	800	185	145	322.9	1'563.2	3.97	13'654	(1'813 / 1'813)	29.0	1.8	12'876	(1'710 / 1'710)	72.5	1.7	11'578	(1'538 / 2'880)	145.0	1.3
800	800	210	165	364.9	1'373.7	3.49	13'583	(1'804 / 1'804)	33.0	2.1	12'697	(1'686 /1'686)	82.5	1.8	11'220	(1'490 / 2'880)	165.0	1.6
800	800	235	185	406.9	1'225.2	3.11	13'511	(1'794 / 1'794)	37.0	2.4	12'518	(1'663 /1'663)	92.5	2.1	10'862	(1'443 / 2'880)	185.0	1.7
800	800	260	205	448.9	1'105.7	2.81	13'440	(1'785 / 1'785)	41.0	2.7	12'339	(1'639 /1'639)	102.5	2.4	10'505	(1'440 / 2'880)	205.0	2.0
900	900	110	85	249.6	4'092.2	8.58	17'636	(2'342 / 2'342)	17.0	0.8	17'122	(2'274 / 2'274)	42.5	0.8	16'265	(2'160 / 3'645)	85.0	0.7
900	900	135	105	302.8	3'312.7	6.94	17'555	(2'331 / 2'331)	21.0	1.1	16'920	(2'247 / 2'247)	52.5	1.0	15'862	(2'107 / 3'645)	105.0	0.8
900	900	160	125	356.0	2'782.7	5.83	17'475	(2'321 / 2'321)	25.0	1.4	16'719	(2'220 / 2'220)	62.5	1.3	15'459	(2'053 / 3'645)	125.0	1.0
900	900	185	145	409.2	2'398.9	5.03	17'394	(2'310 / 2'310)	29.0	1.7	16'517	(2'193 / 2'193)	72.5	1.4	15'056	(1'999 / 3'645)	145.0	1.3
900	900	210	165	462.4	2'108.1	4.42	17'313	(2'299 / 2'299)	33.0	1.8	16'316	(2'167 / 2'167)	82.5	1.7	14'653	(1'946 / 3'645)	165.0	1.4
900	900	235	185	515.6	1'880.2	3.94	17'233	(2'288 / 2'288)	37.0	2.1	16'114	(2'140 / 2'140)	92.5	2.0	14'250	(1'892 / 3'645)	185.0	1.6
900	900	260	205	568.8	1'696.8	3.56	17'152	(2'278 / 2'278)	41.0	2.3	15'912	(2'113 / 2'113)	102.5	2.1	13'847	(1'839 / 3'645)	205.0	1.8
900	900	285	225	622.0	1'545.9	3.24	17'071	(2'267 / 2'267)	45.0	2.5	15'711	(2'086 / 2'086)	112.5	2.4	13'443	(1'823 / 3'645)	225.0	2.0

Type B Round

a: Width og bearing
b: Length of bearing
h: Height of bearing
d: Diameter
H_e: Total thickness of elastomer layers
K_z: Vertical compressive deflection
K_{xy}: Horizontal compressive deflection
N_d: Vertical force
N_{dmin}: Vertical force with concrete connection
N_{dmin}: Vertical force with steel connection
V_{xyd}: Horizontal displacement
$V_{xy,max}$: Maximum horizontal displacement
α_{ab}: Rotation



Bearing Dimensions / Parameters						Condition 1: v_{xyd}=20%.$v_{xy,max}$				Condition 2: v_{xyd}=50%.$v_{xy,max}$				Condition 3: v_{xyd}=100%.$v_{xy,max}$			
d	h	H_e	Weight	K_z	K_{xy}	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab
(mm)	(mm)	(mm)	(kg)	(kN/mm)	(kN/mm)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)
200	30	21	3.0	206.6	1.35	693	(85 / 85)	4.2	0.0	640	(83 / 83)	10.5	0.0	556	(78 / 142)	21.0	0.0
200	41	29	4.0	149.6	0.97	669	(85 / 85)	5.8	0.0	626	(81 / 81)	14.5	0.0	530	(74 / 142)	29.0	0.0
200	52	37	5.0	117.3	0.76	520	(84 / 84)	7.4	1.6	488	(79 / 79)	18.5	1.3	436	(71 / 142)	37.0	0.7
250	30	21	4.7	499.4	2.10	1'394	(136 / 136)	4.2	0.0	1'297	(133 / 133)	10.5	0.0	1'143	(127 / 221)	21.0	0.0
250	41	29	6.3	361.7	1.52	1'385	(135 / 135)	5.8	0.0	1'275	(130 / 130)	14.5	0.0	1'102	(122 / 221)	29.0	0.0
250	52	37	7.9	283.5	1.19	1'323	(134 / 134)	7.4	0.1	1'252	(128 / 128)	18.5	0.0	1'060	(117 / 221)	37.0	0.0
300	41	29	9.1	728.7	2.19	2'224	(197 / 197)	5.8	0.1	2'157	(191 / 191)	14.5	0.0	1'981	(181 / 319)	29.0	0.0
300	52	37	11.5	571.2	1.72	2'212	(196 / 196)	7.4	0.1	2'125	(189 / 189)	18.5	0.0	1'921	(176 / 319)	37.0	0.0
300	63	45	13.8	469.6	1.41	2'199	(195 / 195)	9.0	0.3	2'094	(186 / 186)	22.5	0.1	1'860	(170 / 319)	45.0	0.0
300	74	53	16.2	398.7	1.20	1'946	(194 / 194)	10.6	0.7	1'836	(183 / 183)	26.5	0.6	1'653	(165 / 319)	53.0	0.3
350	41	29	12.5	1'295.3	2.99	3'060	(271 / 271)	5.8	0.3	2'981	(264 / 264)	14.5	0.3	2'849	(253 / 433)	29.0	0.1
350	52	37	15.7	1'015.2	2.34	3'046	(270 / 270)	7.4	0.4	2'945	(261 / 261)	18.5	0.3	2'776	(246 / 433)	37.0	0.1
350	63	45	18.9	834.8	1.92	3'031	(269 / 269)	9.0	0.6	2'908	(258 / 258)	22.5	0.4	2'703	(240 / 433)	45.0	0.1
350	74	53	22.2	708.8	1.63	3'017	(268 / 268)	10.6	0.7	2'872	(255 / 255)	26.5	0.6	2'631	(233 / 433)	53.0	0.3
350	85	61	25.4	615.8	1.42	3'002	(266 / 266)	12.2	0.7	2'835	(252 / 252)	30.5	0.6	2'558	(227 / 433)	61.0	0.3
400	57	41	22.2	768.2	2.76	3'560	(355 / 355)	8.2	0.1	3'445	(344 / 344)	20.5	0.0	3'177	(325 / 566)	41.0	0.0
400	73	53	28.1	594.3	2.13	3'537	(353 / 353)	10.6	0.3	3'390	(338 / 338)	26.5	0.1	3'068	(314 / 566)	53.0	0.0
400	89	65	33.9	484.5	1.74	3'448	(351 / 351)	13.0	0.4	3'270	(333 / 333)	32.5	0.3	2'959	(303 / 566)	65.0	0.0
400	105	77	39.8	409.0	1.47	2'892	(348 / 348)	15.4	1.3	2'714	(327 / 327)	38.5	1.0	2'419	(291 / 566)	77.0	0.7
450	57	41	28.2	1'199.2	3.49	4'537	(452 / 452)	8.2	0.3	4'408	(439 / 439)	20.5	0.3	4'194	(418 / 716)	41.0	0.1
450	73	53	35.6	927.7	2.70	4'511	(450 / 450)	10.6	0.4	4'345	(433 / 433)	26.5	0.4	4'068	(406 / 716)	53.0	0.1
450	89	65	43.0	756.4	2.20	4'486	(447 / 447)	13.0	0.6	4'282	(427 / 427)	32.5	0.4	3'942	(393 / 716)	65.0	0.3
450	105	77	50.5	638.5	1.86	4'461	(445 / 445)	15.4	0.7	4'220	(421 / 421)	38.5	0.6	3'817	(381 / 716)	77.0	0.3
500	57	41	34.9	1'773.1	4.31	5'632	(561 / 561)	8.2	0.4	5'489	(547 / 547)	20.5	0.3	5'250	(523 / 884)	41.0	0.1
500	73	53	44.1	1'371.7	3.33	5'604	(559 / 559)	10.6	0.6	5'419	(540 / 540)	26.5	0.4	5'110	(509 / 884)	53.0	0.3
500	89	65	53.2	1'118.4	2.72	5'576	(556 / 556)	13.0	0.7	5'349	(533 / 533)	32.5	0.6	4'194	(495 / 884)	65.0	0.4
500	105	77	62.4	944.1	2.29	5'548	(553 / 553)	15.4	0.8	5'279	(526 / 526)	38.5	0.7	4'194	(482 / 884)	77.0	0.4
500	121	89	71.6	816.8	1.99	5'520	(550 / 550)	17.8	1.0	5'209	(519 / 519)	44.5	0.8	4'194	(468 / 884)	89.0	0.6
550	73	53	53.4	1'940.9	4.03	6'815	(679 / 679)	10.6	0.6	6'611	(659 / 659)	26.5	0.6	6'271	(625 / 1'070)	53.0	0.4

*Our company is able to design and produce the bearings on customer demand based to given project loads and technical values.

Bearing Dimensions / Parameters						Condition 1: v_{xyd}=20%.$v_{xy,max}$				Condition 2: v_{xyd}=50%.$v_{xy,max}$				Condition 3: v_{xyd}=100%.$v_{xy,max}$			
d	h	H_e	Weight	K_z	K_{xy}	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab	N_d	N_{dmin} (Concrete / Steel)	V_{xyd}	αab
(mm)	(mm)	(mm)	(kg)	(kN/mm)	(kN/mm)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)	(kN)	(kN)	(mm)	(%)
550	89	65	64.5	1'582.6	3.29	6'784	(676 / 676)	13.0	0.7	6'534	(651 / 651)	32.5	0.7	6'117	(610 / 1'070)	65.0	0.4
550	105	77	75.7	1'336.0	2.78	6'753	(673 / 673)	15.4	0.8	6'457	(643 / 643)	38.5	0.8	5'963	(594 / 1'070)	77.0	0.6
550	121	89	86.8	1'155.8	2.40	6'722	(670 / 670)	17.8	1.1	6'380	(636 / 636)	44.5	1.0	5'809	(579 / 1'070)	89.0	0.7
550	137	101	97.9	1'018.5	2.12	6'692	(667 / 667)	20.2	1.3	6'303	(628 / 628)	50.5	1.1	5'655	(564 / 1'070)	101.0	0.8
600	73	53	63.6	2'648.5	4.80	8'144	(811 / 811)	10.6	0.6	7'921	(789 / 789)	26.5	0.6	7'550	(752 / 1'273)	53.0	0.4
600	89	65	76.9	2'159.5	3.91	8'110	(808 / 808)	13.0	0.7	7'837	(781 / 781)	32.5	0.7	7'382	(736 / 1'273)	65.0	0.4
600	105	77	90.2	1'823.0	3.30	8'077	(805 / 805)	15.4	0.8	7'753	(773 / 773)	38.5	0.8	7'214	(719 / 1'273)	77.0	0.6
600	121	89	103.4	1'577.2	2.86	8'043	(801 / 801)	17.8	1.0	7'669	(764 / 764)	44.5	1.0	7'046	(702 / 1'273)	89.0	0.7
600	137	101	116.7	1'389.8	2.52	8'009	(798 / 798)	20.2	1.1	7'585	(756 / 756)	50.5	1.1	6'878	(685 / 1'273)	101.0	0.8
600	153	113	130.0	1'242.2	2.25	7'976	(795 / 795)	22.6	1.4	7'501	(747 / 747)	56.5	1.1	6'709	(669 / 1'273)	113.0	1.0
650	73	53	74.8	3'505.7	5.63	9'591	(956 / 956)	10.6	0.6	9'350	(932 / 932)	26.5	0.4	8'947	(891 / 1'494)	53.0	0.4
650	89	65	90.4	2'858.5	4.59	9'555	(952 / 952)	13.0	0.7	9'259	(922 / 922)	32.5	0.6	8'765	(873 / 1'494)	65.0	0.4
650	105	77	106.0	2'413.0	3.88	9'518	(948 / 948)	15.4	0.8	9'168	(913 / 913)	38.5	0.7	8'583	(855 / 1'494)	77.0	0.6
650	121	89	121.5	2'087.7	3.36	9'482	(945 / 945)	17.8	1.0	9'076	(904 / 904)	44.5	0.8	8'400	(837 / 1'494)	89.0	0.7
650	137	101	137.1	1'839.7	2.96	9'446	(941 / 941)	20.2	1.1	8'985	(895 / 895)	50.5	1.0	8'218	(819 / 1'494)	101.0	0.8
650	153	113	152.7	1'644.3	2.64	9'409	(937 / 937)	22.6	1.3	8'894	(886 / 886)	56.5	1.1	8'036	(801 / 1'494)	113.0	1.0
650	169	125	168.3	1'486.4	2.39	9'373	(934 / 934)	25.0	1.4	8'803	(877 / 877)	62.5	1.3	7'853	(783 / 1'494)	125.0	1.0
700	94	69	110.0	2'270.4	5.02	10'411	(1'106 / 1'106)	13.8	0.7	10'093	(1'073 / 1'073)	34.5	0.6	9'563	(1'016 / 1'732)	69.0	0.4
700	115	85	133.1	1'843.0	4.07	10'362	(1'101 / 1'101)	17.0	0.8	9'970	(1'060 / 1'060)	42.5	0.7	9'318	(990 / 1'732)	85.0	0.6
700	136	101	156.2	1'551.1	3.43	10'312	(1'096 / 1'096)	20.2	1.0	9'847	(1'046 / 1'046)	50.5	0.8	9'072	(964 / 1'732)	101.0	0.7
700	157	117	179.4	1'338.9	2.96	10'263	(1'091 / 1'091)	23.4	1.3	9'724	(1'033 / 1'033)	58.5	1.1	8'826	(938 / 1'732)	117.0	0.8
700	178	133	202.5	1'177.9	2.60	10'214	(1'085 / 1'085)	26.6	1.4	9'602	(1'020 / 1'020)	66.5	1.3	8'581	(912 / 1'732)	133.0	1.0
700	199	149	225.6	1'051.4	2.32	10'165	(1'080 / 1'080)	29.8	1.6	9'479	(1'007 / 1'007)	74.5	1.4	8'335	(886 / 1'732)	149.0	1.0
750	94	69	126.3	2'910.4	5.76	11'986	(1'274 / 1'274)	13.8	0.7	11'645	(1'237 / 1'237)	34.5	0.6	11'077	(1'177 / 1'989)	69.0	0.4
750	115	85	152.9	2'362.6	4.68	11'933	(1'268 / 1'268)	17.0	0.8	11'513	(1'223 / 1'223)	42.5	0.7	10'814	(1'149 / 1'989)	85.0	0.6
750	136	101	179.5	1'988.3	3.94	11'881	(1'262 / 1'262)	20.2	1.0	11'382	(1'209 / 1'209)	50.5	0.8	10'551	(1'121 / 1'989)	101.0	0.7
750	157	117	206.1	1'716.4	3.40	11'828	(1'257 / 1'257)	23.4	1.1	11'250	(1'195 / 1'195)	58.5	1.0	10'287	(1'093 / 1'989)	117.0	0.8
750	178	133	232.6	1'509.9	2.99	11'775	(1'251 / 1'251)	26.6	1.4	11'118	(1'181 / 1'181)	66.5	1.3	10'024	(1'065 / 1'989)	133.0	1.0
750	199	149	259.2	1'347.8	2.67	11'723	(1'246 / 1'246)	29.8	1.6	10'987	(1'167 / 1'167)	74.5	1.4	9'760	(1'037 / 1'989)	149.0	1.1
800	94	69	143.8	3'659.4	6.56	13'672	(1'453 / 1'453)	13.8	0.6	13'308	(1'414 / 1'414)	34.5	0.6	12'702	(1'350 / 2'262)	69.0	0.4
800	115	85	174.1	2'970.6	5.32	13'616	(1'447 / 1'447)	17.0	0.8	13'168	(1'399 / 1'399)	42.5	0.7	12'421	(1'320 / 2'262)	85.0	0.6
800	136	101	204.4	2'500.0	4.48	13'560	(1'441 / 1'441)	20.2	1.0	13'027	(1'384 / 1'384)	50.5	0.8	12'140	(1'290 / 2'262)	101.0	0.7
800	157	117	234.6	2'158.1	3.87	13'503	(1'435 / 1'435)	23.4	1.1	12'887	(1'369 / 1'369)	58.5	1.0	11'859	(1'260 / 2'262)	117.0	0.8
800	178	133	264.9	1'898.5	3.40	13'447	(1'429 / 1'429)	26.6	1.3	12'746	(1'354 / 1'354)	66.5	1.1	11'578	(1'230 / 2'262)	133.0	1.0
800	199	149	295.2	1'694.6	3.04	13'391	(1'423 / 1'423)	29.8	1.6	12'606	(1'339 / 1'339)	74.5	1.3	11'297	(1'200 / 2'262)	149.0	1.1
800	220	165	325.4	1'530.3	2.74	13'335	(1'417 / 1'417)	33.0	1.7	12'465	(1'325 / 1'325)	82.5	1.6	11'016	(1'171 / 2'262)	165.0	1.1
850	94	69	162.5	4'523.8	7.40	15'469	(1'644 / 1'644)	13.8	0.6	15'083	(1'603 / 1'603)	34.5	0.6	14'438	(1'534 / 2'554)	69.0	0.4
850	115	85	196.7	3'672.2	6.01	15'409	(1'637 / 1'637)	17.0	0.7	14'933	(1'587 / 1'587)	42.5	0.7	14'139	(1'502 / 2'554)	85.0	0.6
850	136	101	230.9	3'090.5	5.06	15'350	(1'631 / 1'631)	20.2	0.8	14'784	(1'571 / 1'571)	50.5	0.8	13'840	(1'471 / 2'554)	101.0	0.7
850	157	117	265.0	2'667.9	4.37	15'290	(1'625 / 1'625)	23.4	1.1	14'634	(1'555 / 1'555)	58.5	1.0	13'542	(1'439 / 2'554)	117.0	0.8
850	178	133	299.2	2'346.9	3.84	15'230	(1'618 / 1'618)	26.6	1.3	14'485	(1'539 / 1'539)	66.5	1.1	13'243	(1'407 / 2'554)	133.0	1.0
850	199	149	333.4	2'094.9	3.43	15'170	(1'612 / 1'612)	29.8	1.4	14'335	(1'523 / 1'523)	74.5	1.3	12'944	(1'375 / 2'554)	149.0	1.0
850	220	165	367.6	1'891.8	3.10	15'111	(1'605 / 1'605)	33.0	1.6	14'186	(1'507 / 1'507)	82.5	1.4	12'645	(1'344 / 2'554)	165.0	1.1
900	110	85	196.0	3'214.0	6.74	13'851	(1'840 / 1'840)	17.0	0.8	13'447	(1'786 / 1'786)	42.5	0.8	12'775	(1'697 / 2'863)	85.0	0.7
900	135	105	237.8	2'601.8	5.45	13'788	(1'831 / 1'831)	21.0	1.1	13'289	(1'765 / 1'765)	52.5	1.0	12'458	(1'655 / 2'863)	105.0	0.8
900	160	125	279.6	2'185.5	4.58	13'724	(1'823 / 1'823)	25.0	1.4	13'131	(1'744 / 1'744)	62.5	1.3	12'141	(1'613 / 2'863)	125.0	1.0
900	185	145	321.4	1'884.1	3.95	13'661	(1'814 / 1'814)	29.0	1.7	12'972	(1'723 / 1'723)	72.5	1.4	11'825	(1'570 / 2'863)	145.0	1.3
900	210	165	363.1	1'655.7	3.47	13'598	(1'806 / 1'806)	33.0	1.8	12'814	(1'702 / 1'702)	82.5	1.7	11'508	(1'528 / 2'863)	165.0	1.4
900	235	185	404.9	1'476.7	3.09	13'534	(1'797 / 1'797)	37.0	2.1	12'656	(1'681 / 1'681)	92.5	2.0	11'192	(1'486 / 2'863)	185.0	1.6
900	260	205	446.7	1'332.6	2.79	13'471	(1'789 / 1'789)	41.0	2.4	12'498	(1'660 / 1'660)	102.5	2.1	10'875	(1'444 / 2'863)	205.0	1.8

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