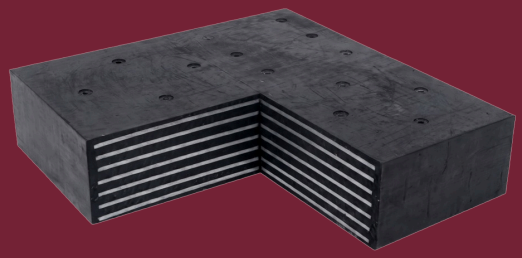
UNIJOINT® RUBBER BEARING

LAMINATED ELASTOMERIC BEARING



Product Features

Over the past seven decades, elastomeric bearings have become a widely trusted solution for supporting bridge superstructures while accommodating horizontal thermal expansion, lateral movements, and structural rotations. Unlike traditional mechanical systems such as roller, sliding, or knuckle bearings, elastomeric bearings offer a highly economical alternative that simplifies installation and minimizes ongoing maintenance.

UNIJOINT® RUBBER BEARINGS are designed to support a broad range of load capacities and movement allowances. **UNIJOINT® RUBBER BEARINGS** are manufactured and quality-tested in strict compliance with BS 5400: Section 9 standard.

This catalogue outlines our range of laminated elastomeric bearings. Custom sizes and non-standard load ratings are also available upon request to meet project-specific engineering requirements.

Advantages

- Economical Alternative To Roller, Sliding Or Knuckle Bearings
- Low Maintenance Once Installed
- Simple, Straightforward Installation On Site
- Accommodates Thermal Expansion, Lateral Movement And Rotation
- Standard Range, Or Custom Sizes And Load Ratings On Request

Fields Of Application

- Bridge superstructure support systems.
- Highway flyovers and elevated road bridges.
- Rail infrastructure and mass rapid transit (MRT) viaducts.
- Heavy civil structural joints requiring load distribution and thermal expansion allowance.

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Technical Properties

Property	Test Method	Unit	BS 5400 Req.	Result
Shear Modulus	-	N/mm²	-	0.9
Bulk Modulus	-	N/mm²	-	2000
Hardness	BS ISO 48-2	IRHD	60 nominal	60 ± 5
Tensile Strength	BS ISO 37	MPa	≥ 15.5	> 25
Elongation at Break	BS ISO 37	%	≥ 400	> 550
Compression Set (22 h / 70°C)	BS ISO 815-1	%	≤ 30	< 28
Bond Strength, Rubber to Steel	BS ISO 813	N/mm	≥ 7	≥ 8, rubber failure
Ozone Resistance	BS ISO 1431-1	-	No crack	No crack
After Ageing 7 Days at 70°C:	BS ISO 188			
Change in Tensile Strength		%	≤ 15	Within 10
Change in Elongation at Break		%	≤ 20	Within 10
Change in Hardness		IRHD	≤ 10	≤ + 5
Material	-	-	-	Natural rubber

Rubber tested to the requirements of BS 5400: Section 9. All values are subject to 5-10% tolerance.

All values are based on Serviceability Limit State as stipulated in BS 5400 Section 9.1 Clause 10.1.4 and MS371 with the assumption of the Dead Load Effect being numerically equal to Live Load Effect.

Special Note

The part number of each bearing in this catalogue identifies the construction as shown in the example below :-

RBP3015/2/06

RBP3015 = plan size series (300 x 150 mm)

/2 = Number of inner rubber layers

/06 = Thickness of inner rubber layer (mm)

Whole Bearing Tests

Bearing Size (mm)	Steel Plates	Design Load	Test Standard	Comp. Stiffness
400 x 350 x 87	5 x 3.0 mm	1200 kN	BS 5400-9.2, Clause 7.2	> 450 kN/mm
700 x 400 x 112	7 x 4.0 mm	2850 kN	BS 5400-9.2, Clause 7.2	> 1700 kN/mm

Custom bearings are tested for compression stiffness at the design load. Test reports are available on request.

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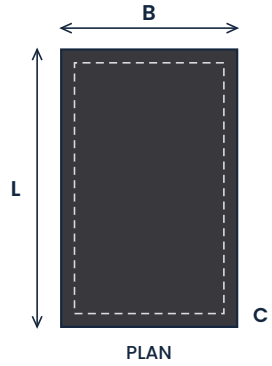
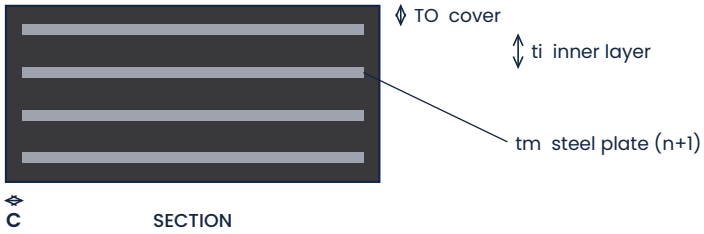
Profile Selection





Plan Dimensions (L x B): 300 x 150 mm
Top/Bottom Cover rubber thickness, TO = 4 mm
Side Cover rubber thickness, C = 6 mm
Steel Plate thickness, Tm = 3 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP3015/2/06	150	300	29	498	0.00436	740	490	570	395	14.0	2.03
RBP3015/3/06	150	300	38	379	0.00573	740	490	550	380	18.2	1.56
RBP3015/4/06	150	300	47	306	0.00710	740	490	534	375	22.4	1.27
RBP3015/5/06	150	300	56	257	0.00847	670	487	515	365	26.6	1.07
RBP3015/6/06	150	300	65	221	0.00984	580	486	452	350	30.8	0.92
RBP3015/7/06	150	300	74	194	0.01121	512	486	380	340	35.0	0.81
RBP3015/1/09	150	300	23	366	0.00594	490	388	389	310	11.9	2.38
RBP3015/2/09	150	300	35	212	0.01026	490	375	369	290	18.2	1.56
RBP3015/3/09	150	300	47	149	0.01457	487	364	350	276	24.5	1.16
RBP3015/4/09	150	300	59	115	0.01889	388	358	300	262	30.8	0.92
RBP3015/1/12	150	300	26	187	0.01160	370	295	287	233	14.0	2.03
RBP3015/2/12	150	300	41	101	0.02158	370	273	267	214	22.4	1.27
RBP3015/3/12	150	300	56	69	0.03156	290	262	226	199	30.8	0.92
RBP3015/4/12	150	300	71	52	0.04154	228	256	164	185	39.2	0.72
RBP3015/5/12	150	300	86	42	0.05152	188	252	123	171	47.6	0.60

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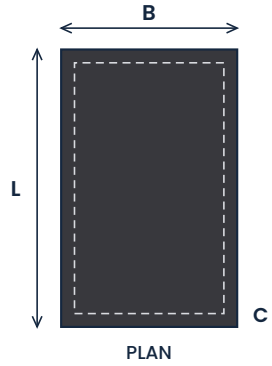

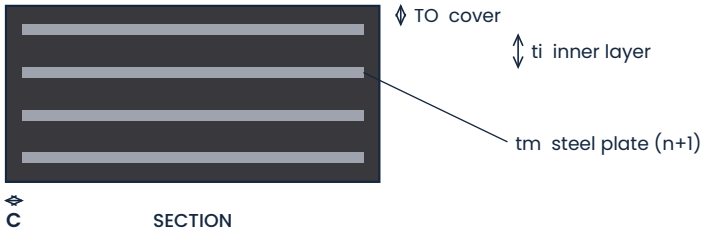

Plan Dimensions (L x B): 230 x 200 mm
Top/Bottom Cover rubber thickness, TO = 4 mm
Side Cover rubber thickness, C = 6 mm
Steel Plate thickness, Tm = 3 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP2320/1/06	200	230	20	859	0.00186	820	498	670	416	9.8	2.96
RBP2320/2/06	200	230	29	589	0.00271	820	490	659	406	14.0	2.07
RBP2320/3/06	200	230	38	448	0.00356	820	490	643	399	18.2	1.59
RBP2320/4/06	200	230	47	362	0.00441	820	489	627	392	22.4	1.29
RBP2320/5/06	200	230	56	303	0.00526	820	488	611	385	26.6	1.09
RBP2320/6/06	200	230	65	261	0.00611	820	488	595	379	30.8	0.94
RBP2320/1/09	200	230	23	436	0.00366	550	390	440	327	11.9	2.44
RBP2320/2/09	200	230	35	253	0.00631	550	365	428	301	18.2	1.59
RBP2320/3/09	200	230	47	179	0.00896	550	354	413	287	24.5	1.18
RBP2320/4/09	200	230	59	137	0.01161	550	348	394	278	30.8	0.94
RBP2320/1/12	200	230	26	224	0.00711	414	286	329	241	14.0	2.07
RBP2320/2/12	200	230	41	121	0.01321	414	259	313	214	22.4	1.29
RBP2320/3/12	200	230	56	83	0.01932	414	248	298	202	30.8	0.94
RBP2320/4/12	200	230	71	63	0.02542	347	242	275	194	39.2	0.74
RBP2320/5/12	200	230	86	51	0.03152	286	238	214	188	47.6	0.61

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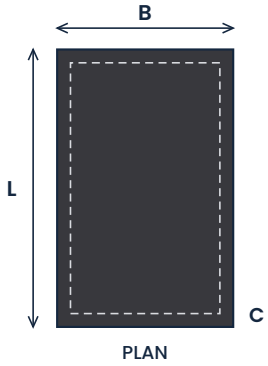

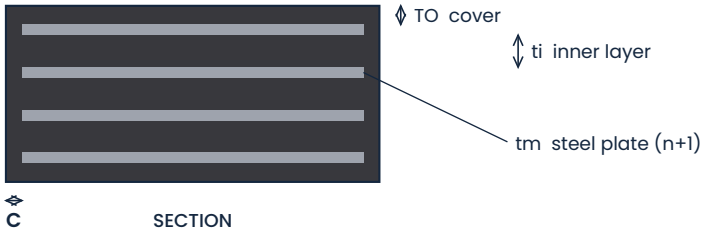

Plan Dimensions (L x B): 350 x 200 mm
Top/Bottom Cover rubber thickness, TO = 4 mm
Side Cover rubber thickness, C = 6 mm
Steel Plate thickness, Tm = 3 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP3520/2/06	200	350	29	1232	0.00130	1460	960	1220	790	14.0	3.15
RBP3520/3/06	200	350	38	938	0.00170	1460	960	1190	770	18.2	2.42
RBP3520/4/06	200	350	47	757	0.00210	1460	950	1160	760	22.4	1.97
RBP3520/5/06	200	350	56	635	0.00250	1460	950	1130	750	26.6	1.66
RBP3520/6/06	200	350	65	547	0.00292	1460	950	1100	730	30.8	1.43
RBP3520/7/06	200	350	74	480	0.00332	1440	950	1070	720	35.0	1.26
RBP3520/1/09	200	350	23	932	0.00169	1020	780	820	640	11.9	3.71
RBP3520/2/09	200	350	35	543	0.00294	970	730	790	600	18.2	2.42
RBP3520/3/09	200	350	47	383	0.00415	970	710	760	570	24.5	1.80
RBP3520/4/09	200	350	59	296	0.00540	970	704	736	558	30.8	1.43
RBP3520/1/12	200	350	26	487	0.00328	760	590	610	480	14.0	3.15
RBP3520/2/12	200	350	41	263	0.00607	730	530	580	440	22.4	1.97
RBP3520/3/12	200	350	56	180	0.00887	730	510	550	410	30.8	1.43

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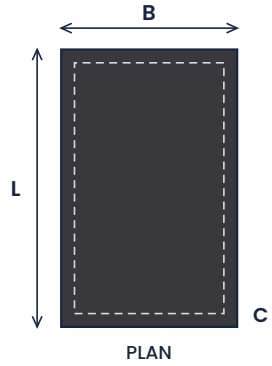

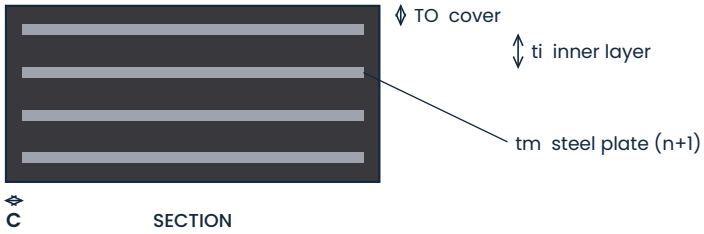

Plan Dimensions (L x B): 400 x 280 mm
Top/Bottom Cover rubber thickness, TO = 4 mm
Side Cover rubber thickness, C = 6 mm
Steel Plate thickness, Tm = 3 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP4028/2/09	280	400	35	1416	0.00079	1600	1440	1490	1200	18.2	3.88
RBP4028/3/09	280	400	47	1002	0.00112	1600	1402	1450	1160	24.5	2.88
RBP4028/4/09	280	400	59	776	0.00143	1600	1378	1410	1120	30.8	2.29
RBP4028/5/09	280	400	71	633	0.00176	1600	1360	1370	1105	37.1	1.90
RBP4028/6/09	280	400	83	534	0.00210	1600	1352	1340	1080	43.4	1.63
RBP4028/7/09	280	400	95	462	0.00242	1600	1342	1300	1060	49.7	1.42
RBP4028/1/12	280	400	26	1300	0.00085	1648	1150	1340	970	14.0	5.04
RBP4028/2/12	280	400	41	707	0.00158	1200	1050	1100	880	22.4	3.15
RBP4028/3/12	280	400	56	485	0.00230	1200	1010	1060	830	30.8	2.29
RBP4028/4/12	280	400	71	370	0.00301	1200	980	1019	810	39.2	1.80
RBP4028/1/15	280	400	29	744	0.00150	1319	850	1060	720	16.1	4.38
RBP4028/2/15	280	400	47	390	0.00287	960	760	860	640	26.6	2.65
RBP4028/3/15	280	400	65	264	0.00424	960	730	820	610	37.1	1.90

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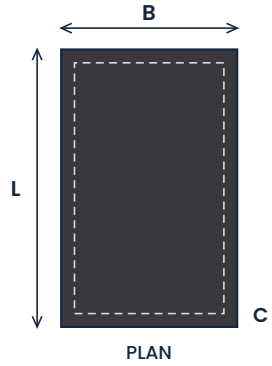

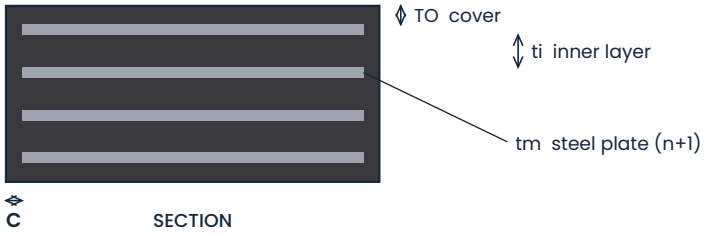

Plan Dimensions (L x B): 400 x 350 mm
Top/Bottom Cover rubber thickness, TO = 6 mm
Side Cover rubber thickness, C = 10 mm
Steel Plate thickness, Tm = 3 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP4035/2/09	350	400	39	1554	0.00054	1929	1715	1800	1420	21.0	4.20
RBP4035/3/09	350	400	51	1184	0.00072	1920	1710	1770	1400	27.3	3.23
RBP4035/4/09	350	400	63	956	0.00095	1920	1714	1730	1380	33.6	2.63
RBP4035/5/09	350	400	75	801	0.00112	1920	1707	1695	1360	39.9	2.21
RBP4035/6/09	350	400	87	690	0.00130	1920	1700	1650	1340	46.2	1.91
RBP4035/7/09	350	400	99	606	0.00150	1920	1700	1620	1320	52.5	1.68
RBP4035/1/12	350	400	30	1469	0.00061	1923	1490	1800	1253	16.8	5.25
RBP4035/2/12	350	400	45	892	0.00102	1445	1420	1330	1175	25.2	3.50
RBP4035/3/12	350	400	60	640	0.00140	1445	1400	1820	1140	33.6	2.63
RBP4035/4/12	350	400	75	499	0.00180	1445	1370	1260	1110	42.0	2.10
RBP4035/2/15	350	400	51	528	0.00170	1150	1140	1050	950	29.4	3.00
RBP4035/3/15	350	400	69	368	0.00247	1150	1100	1018	900	39.9	2.21
RBP4035/4/15	350	400	87	282	0.00320	1150	1075	980	870	50.4	1.75

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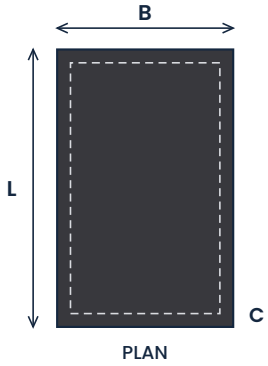

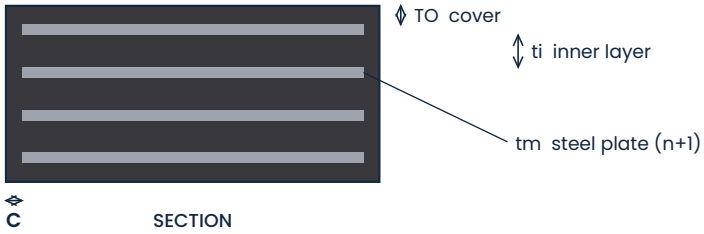

Plan Dimensions (L x B): 510 x 300 mm
Top/Bottom Cover rubber thickness, TO = 6 mm
Side Cover rubber thickness, C = 10 mm
Steel Plate thickness, Tm = 4.5 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP5130/2/12	300	510	49.5	991	0.00108	2370	1720	1910	1410	25.2	3.83
RBP5130/3/12	300	510	66.0	711	0.00151	2370	1680	1850	1350	33.6	2.87
RBP5130/4/12	300	510	82.5	555	0.00190	2370	1660	1780	1310	42.0	2.30
RBP5130/5/12	300	510	99.0	455	0.00236	2370	1640	1720	1280	50.4	1.91
RBP5130/6/12	300	510	115.5	385	0.00278	2030	1635	1600	1250	58.8	1.64
RBP5130/7/12	300	510	132.0	334	0.00318	1780	1630	1355	1220	67.2	1.43
RBP5130/1/15	300	510	36.0	1042	0.00103	1950	1510	1560	1230	18.9	5.10
RBP5130/2/15	300	510	55.5	587	0.00182	1900	1400	1500	1150	29.4	3.28
RBP5130/3/15	300	510	75.0	409	0.00262	1900	1350	1440	1090	39.9	2.42
RBP5130/4/15	300	510	94.5	313	0.00338	1900	1330	1375	1052	50.4	1.91
RBP5130/1/18	300	510	39.0	679	0.00158	1630	1247	1290	1030	21.0	4.59
RBP5130/2/18	300	510	61.5	367	0.00292	1580	1132	1230	930	33.6	2.87
RBP5130/3/18	300	510	84.0	251	0.00427	1580	1087	1170	880	46.2	2.09

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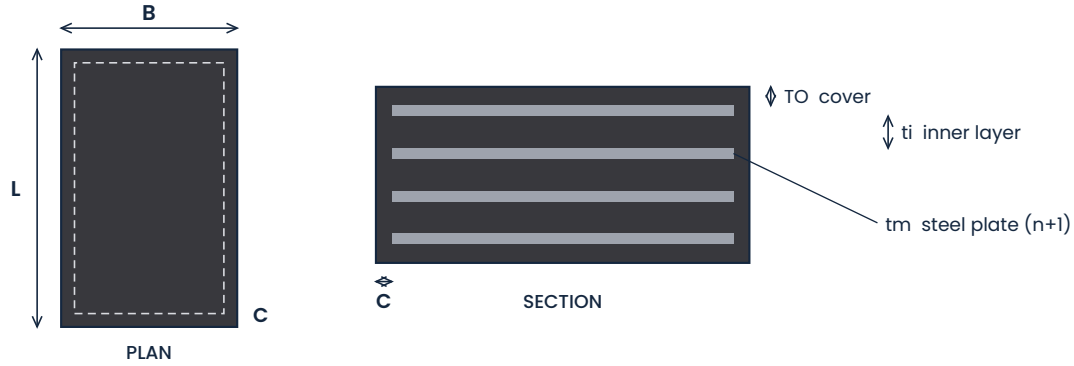

Plan Dimensions (L x B): 510 x 400 mm
Top/Bottom Cover rubber thickness, TO = 6 mm
Side Cover rubber thickness, C = 10 mm
Steel Plate thickness, Tm = 4.5 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP5140/2/12	400	510	49.5	1835	0.00043	3220	2555	3000	2120	25.2	5.10
RBP5140/3/12	400	510	66.0	1320	0.00060	3220	2490	2935	2060	33.6	3.83
RBP5140/4/12	400	510	82.5	1031	0.00077	3220	2460	2860	2010	42.0	3.06
RBP5140/5/12	400	510	99.0	846	0.00093	3220	2440	2795	1970	50.4	2.55
RBP5140/6/12	400	510	115.5	717	0.00110	3220	2420	2720	1935	58.8	2.19
RBP5140/7/12	400	510	132.0	622	0.00127	3220	2415	2650	1903	67.2	1.91
RBP5140/1/15	400	510	36.0	1951	0.00040	3188	2241	2605	1889	18.9	6.80
RBP5140/2/15	400	510	55.5	1106	0.00071	2578	2070	2370	1720	29.4	4.37
RBP5140/3/15	400	510	75.0	771	0.00102	2578	2000	2307	1653	39.9	3.22
RBP5140/4/15	400	510	94.5	592	0.00133	2578	1960	2236	1602	50.4	2.55
RBP5140/5/15	400	510	114.0	481	0.00164	2578	1930	2165	1564	60.9	2.11
RBP5140/6/15	400	510	133.5	404	0.00195	2578	1919	2094	1530	71.4	1.80
RBP5140/2/18	400	510	61.5	698	0.00113	2140	1660	1958	1391	33.6	3.83
RBP5140/3/18	400	510	84.0	479	0.00165	2140	1590	1887	1321	46.2	2.78
RBP5140/4/18	400	510	106.5	364	0.00217	2140	1550	1816	1277	58.8	2.19

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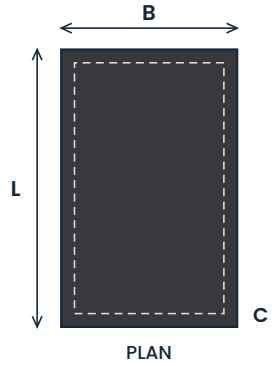
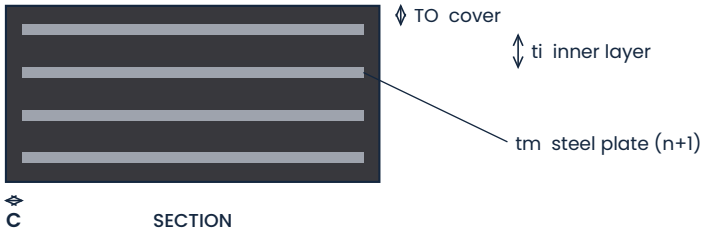
Profile Selection





Plan Dimensions (L x B): 600 x 400 mm
Top/Bottom Cover rubber thickness, TO = 6 mm
Side Cover rubber thickness, C = 10 mm
Steel Plate thickness, Tm = 4.5 mm

Part No	Dimensions			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearings		Free Bearings		Unlocated	
	B	L	T			Max. Load Zero Rotation	Max. Load Full Rotation	Max. Load Zero Rotation	Max. Load Full Rotation	Max. Shear	Shear Stiffness
	mm	mm	mm	kN/mm	RAD/100kN	kN	kN	kN	kN	mm	kN/mm
RBP6040/2/12	400	600	49.5	2434	0.00032	3810	3320	3560	2765	25.2	6.00
RBP6040/3/12	400	600	66.0	1753	0.00043	3810	3250	3470	2673	33.6	4.50
RBP6040/4/12	400	600	82.5	1370	0.00058	3810	3205	3390	2610	42.0	3.60
RBP6040/5/12	400	600	99.0	1125	0.00070	3810	3180	3305	2560	50.4	3.00
RBP6040/6/12	400	600	115.5	954	0.00083	3810	3160	3220	2510	58.8	2.57
RBP6040/7/12	400	600	132.0	828	0.00095	3810	3140	3140	2470	67.2	2.25
RBP6040/1/15	400	600	36.0	2602	0.00030	4045	2930	3305	2465	18.9	8.00
RBP6040/2/15	400	600	55.5	1478	0.00051	3050	2715	2810	2260	29.4	5.14
RBP6040/3/15	400	600	75.0	1032	0.00076	3050	2620	2730	2160	39.9	3.79
RBP6040/4/15	400	600	94.5	793	0.00100	3050	2570	2640	2100	50.4	3.00
RBP6040/1/18	400	600	39.0	1727	0.00045	3370	2415	2740	2040	21.0	7.20
RBP6040/2/18	400	600	61.5	938	0.00084	2540	2198	2315	1830	33.6	4.50
RBP6040/3/18	400	600	84.0	644	0.00123	2540	2110	2230	1745	46.2	3.27

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UNIJOINT® RUBBER BEARING

Installation Procedures

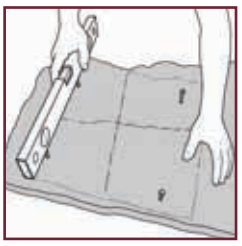
1 Level Check | 2 Place Formwork | 3 Lay Epoxy Plinth | 4 Remove Formwork & Position Bearing

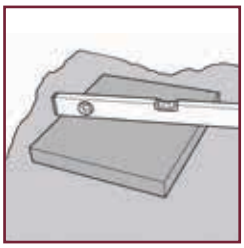
Step 1
LEVEL CHECK

Clean the bearing seat by removing all loose material, dust and laitance so that the concrete surface is sound.

Mark the bearing position and its orientation (B and L directions) on the seat according to the drawings. Install the level screws within the marked area and adjust them with a spirit level until all screw heads sit at the required plinth top level.

Place the **UNIJOINT® RUBBER BEARING** temporarily on the screw heads. Check its position against the setting-out marks, and use a spirit level across the bearing to confirm it is level in both directions. Adjust the screws where necessary. Remove the bearing, set aside.





Step 2
PLACE FORMWORK

Fix the formwork around the marked area to form the plinth. The plinth must extend at least 20 mm beyond each edge of the bearing. Make sure the formwork is firm, level and sealed against the concrete surface so that the epoxy mortar cannot leak.



Step 3
LAY EPOXY PLINTH

Mix the epoxy mortar thoroughly according to the manufacturer's instructions and place it inside the formwork. Work it well under and around the level screws so that no voids are left.

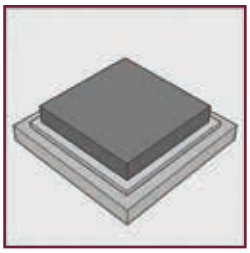
Finish the surface flush with the screw heads, flat to within ±1 mm across the bearing contact area. Leave an even, textured finish; do not trowel it smooth or glossy.



Step 4
REMOVE FORMWORK & POSITION BEARING

Allow the epoxy plinth to cure fully before removing the formwork. Check the plinth for voids, cracks or surface defects and repair them before proceeding.

Place the **UNIJOINT® RUBBER BEARING** centrally on the plinth. Check that it is level and fully seated. Do not load the bearing until the plinth has reached full strength.



- Contact surfaces must be **flat, uniform textured and have good friction**. A tolerance of ±1 mm over the contact area is normally adequate.
- Avoid smooth or slippery finishes. Where steel contact plates are used, zinc spraying is recommended for corrosion protection.
- Out-of-parallel tolerance between the surfaces uses up the bearing's rotation capacity. Set an out-of-parallel tolerance preserving adequate rotation for working conditions.
- Contact surfaces should extend **at least 20 mm** beyond the bearing edges.
- Elastomeric bearings are expected to last at least as long as the structure. Even so, it is good practice to detail the structure so that bearings can be replaced.

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