



BEARING PADS FOR BRIDGES

www.interbuna.com

Interbuna S.L. Spain

Calle Lomo 2, 28950 Poligono Industrial
San Sebastian Moraleja De Enmedio
Apartado De Correos 38, 28944
Fuenlabrada Madrid Spain
Email: interbuna@interbuna.com

CERTIFICATE



Management system as per
EN ISO 9001 : 2008

In accordance with TÜV NORD CERT procedures, it is hereby certified that

Interbuna S.L.
C/ Orense, 68-3° A
28020 Madrid
Spain

applies a management system in line with the above standard for the following scope

Sales of rubber parts

Certificate Registration No. 44 100 130835-002
Audit Report No. 3512 0124

Valid until 2019-07-24

G. Bräutigam
Certification Body
at TÜV NORD CERT GmbH

Essen, 2013-07-25

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits. This certificate is valid in conjunction with the main certificate.

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen

www.tuev-nord-cert.com



TGA-ZM-07-06-00

ASQPE**CERTIFICAT DE
CONFORMITÉ****CE****N° 1683 - CPD - 0012****APPAREILS D'APPUI STRUCTURAUX EN ELASTOMERE****Certificat de conformité délivré par l'organisme certificateur : ASQPE**

Numéro d'identification : 1683

Adresse : ASQPE 58 boulevard Lefebvre 75732 Paris Cedex 15

Fabricant : CACESAAdresse : Carretera de Humanes, km 0,800
E-28944 Fuenlabrada - Madrid (Espagne)**Site de production : CACESA**Adresse : Polígono industrial San Sebastián C/Lomo, 2
E-28950 Moraleja de Enmedio - Madrid (Espagne)**Produits certifiés : Appareils d'appui en élastomère**

Dans le cadre de la mise en application de la Directive 89/106/CEE du Conseil des Communautés Européennes du 21 décembre 1988, relative au rapprochement des dispositions législatives, réglementaires et administratives des Etats Membres, concernant les produits de construction (Directive Produits de Construction – DPC), modifiée par la Directive 93/68/CEE du Conseil des Communautés Européennes du 22 juillet 1993, il a été établi que :

les appareils d'appui en élastomère « type A » et « type » B, composés soit de caoutchouc naturel de module G égal à 0.9 MPa, soit de caoutchouc naturel de module G égal à 0.9 MPa avec un enrobage de polychloroprène, avec des frettes d'acier nuance S235JRG2 (EN 10025), pour une température de service minimale de -25° C et une capacité de rotation statique déterminée sur la base de l'essai sous charge excentrée, produits par :

la Société « Caucho Celular del Centro, S.A. » (CACESA)

ont été soumis aux essais de type initiaux et que le fabricant assure un contrôle de la production en usine conforme aux exigences de l'annexe ZA de la norme EN 1337-3 pour des appareils d'appui selon le système 1 « utilisation critique ».

L'organisme notifié ASQPE a réalisé l'inspection initiale de l'usine et a vérifié la mise en place du contrôle de la production. Ce certificat atteste que les essais de type initiaux réalisés sur des appareils d'appui issus de la production de l'usine de Moraleja de Enmedio ont satisfait les exigences prescrites dans la partie harmonisée de la norme EN 1337-3.

Ce certificat est délivré pour la première fois le 20 août 2010 et, sauf retrait ou suspension, demeure valide tant que les conditions précisées dans la spécification technique de référence, les conditions de fabrication en usine ou le contrôle de la production en usine lui-même ne sont pas modifiés de manière significative.

Délivré à Paris, le 20/08/2010

le Président de l'ASQPE

ASQPE

Jacky SEANTIER

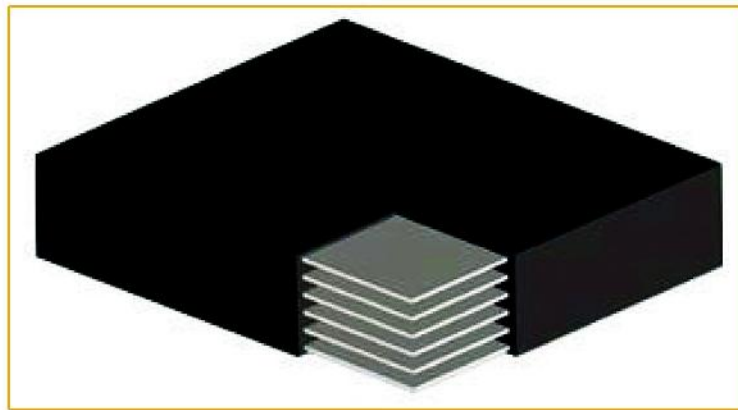
ASQPE (Association Pour la Qualification de la Précontrainte et des Equipements des Ouvrages et de Génie Civil)
58, Boulevard Lefebvre - 75732 Paris cedex 15 - Tél: 33 (0)1 40 43 53 04 - Fax: 33 (0)1 40 43 65 22 - www.asqpe.fr



Laminated Elastomeric Bearings:

These laminated elastomeric bearings allow:

- a) Simultaneous movement in two directions.
- b) Simultaneous turns in three different axes.
- c) Absorption of vertical loads.
- d) Absorption of short horizontal loads.



The manufacturing process of our elastomeric bearings undergo periodical tests.

Interbuna,S.L.work under the European Standard EN-1137-3,test will be done on finished bearings in order to assure a real control of the piece.

Interbuna,S.L. is certified with the ISO-9001/2008 standard con el n°:0710043018-'1'M.

Interbuna,S.L. can manufacture elastomeric bearing according different standards: BS 5400,AASHTO,SETRA,UNI-1001B,DIN 4141,EN-1337,or any other requested by clients.

Laminated elastomeric bearings can be manufactured in three qualities: 100% Natural Rubber, Natural Rubber covered by Chloroprene or only in Chloroprene rubber internal steel plates remain totally covered, avoiding the rusting process.



STANDARD TYPE OF LAMINATED ELASTOMERIC BEARINGS:

A TYPE-ONE STEEL PLATE REINFORCED BEARINGS:



B TYPE-REINFORCED BEARING:

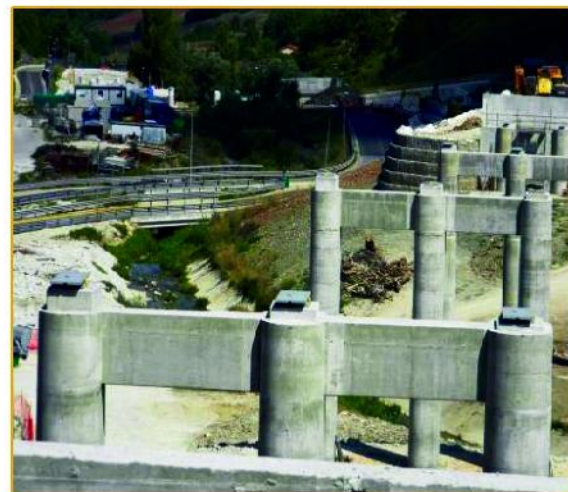
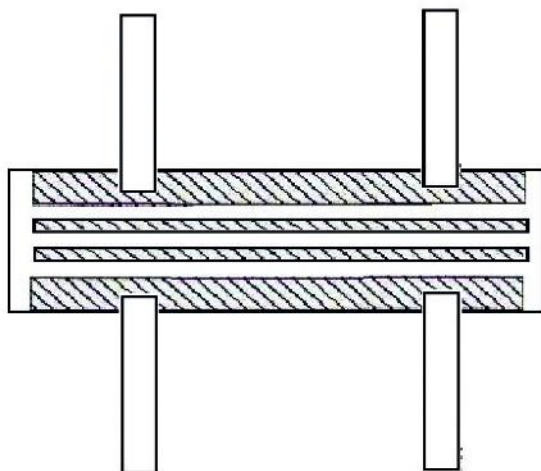
Bearings manufactured with elastomeric layers and high resistance steel plates joint by a careful vulcanization process.

They can absorb vertical loads up to 15000kN and movements and turns in all directions.



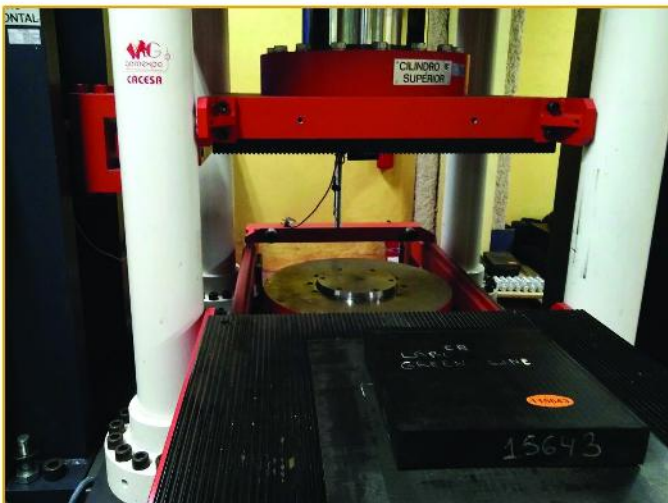
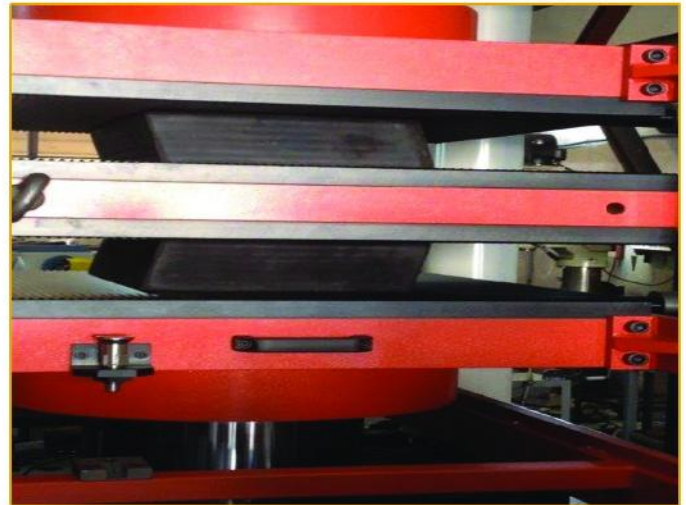
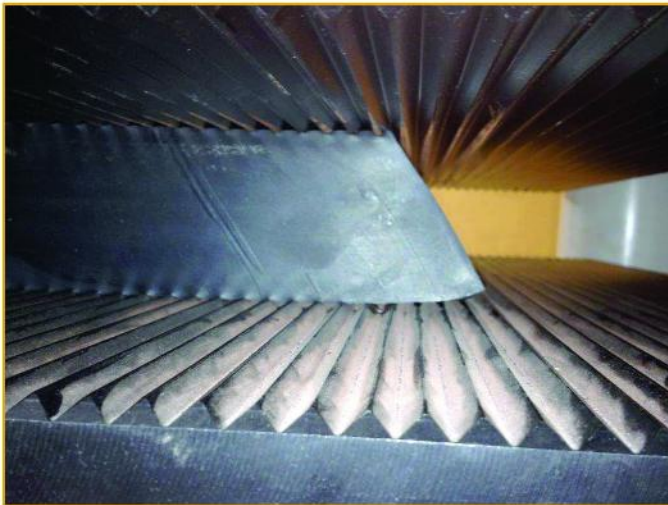
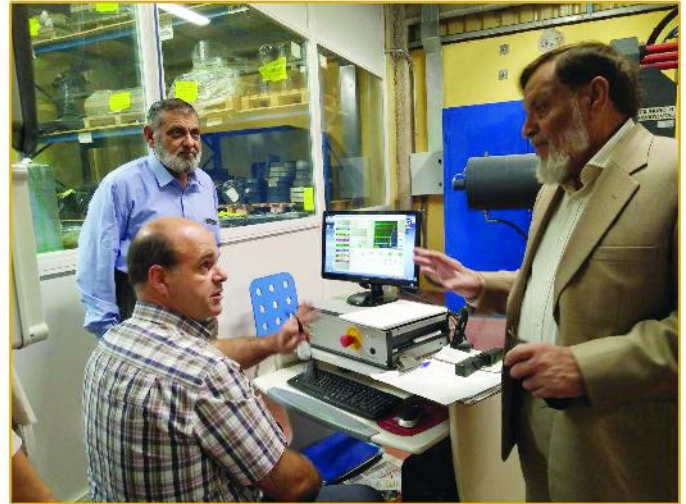
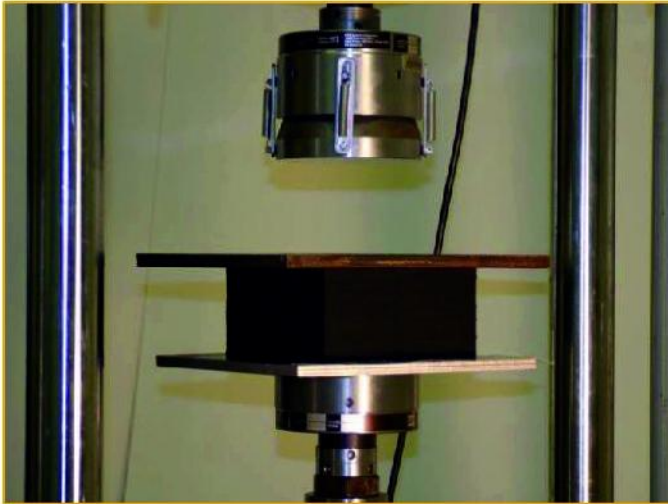
C TYPE-REINFORCED AND ANCHORED BEARINGS (C2, C4 & C5):

C2 Type:



Laminated Elastomeric bearing with their upper and lowered sides anchored to the structure. This is to avoid a displacement between the bearing and the structure.

Interbuna S.L. Spain is doing a Factory Production Control about their raw material and final product fulfilling the UNE 1337-3 standard in every moment in the bearing production, doing at least test requested by the mentioned standard different phases of routine compression test and Sheer Modulus etc.



NHA Standards for Bearing Pad

ASTM Code	Test Discription	Methodology / Testing Method	Units	Satndard Values / Units
D-412	Tensile Strength	Standard	Kgf/cm ²	160 (min)
	Elongation at break	Standard	Percent	350 (min)
D-395	Compression Set	22 Hrs at 67° C	Percent	25 (max)
D-624 (Die C)	Tear Strength	Standard	Kgf/cm ²	13 (min)
D-2240	Hardness(Shore-A°)	Standard	Points	60 ± 5
D-1149 (except 100±20 parts per 100,000,000)	Ozone resistance test 20% Strain	100 Hrs at 38°C ±1°c	Observation	No cracks
D-797	Low temperature stiffness	Young's modulus at 35°C	Kgf/cm ²	350 (max)
D-736	Low temperature brittleness test	5Hrs at -40°C	Observation	Passed

Note: After accelerated aging in accordance with ASTM Designation D573 for 70 Hrs at 100°C, the elastomer shall not show deterioration changes of excess of the following:

ASTM Code	Test Description	Units	Satndard Values / Units	Remarks
D-412	Tensile Strength	Percent	±15	But not less than 300% total elongation of the material
	Elongation at break	Percent	-50	
D-2240	Hardness(Shore-A)	Points	10	
D-4014	Shear Test	kg/sq.cm	7 (min)	Without vertical load
D-4014	Shear Test	7 kg/sq.cm (min)	N.A.	
	TEXAS DEPT OF TRANSPORTATION	95-130 Psi		
D-429	Adhesion between steel and elastomer		7 N/mm (min)	

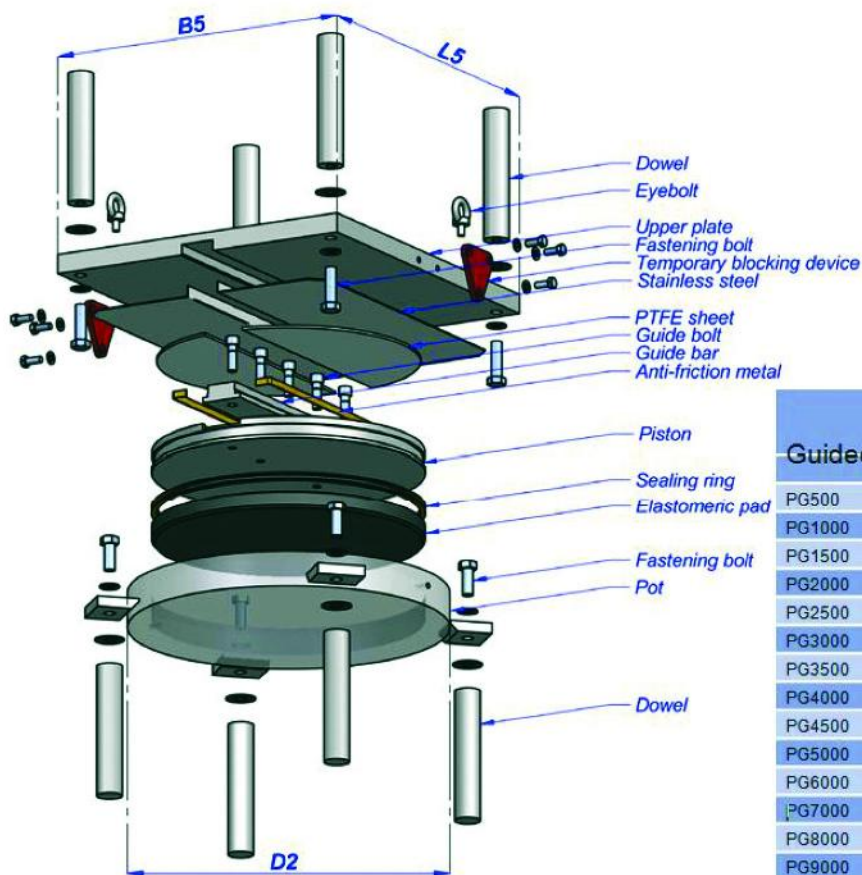
Bearing installation:

Bearings will be placed over a clean, dry and horizontal place. For in-situ construction, the bearing should be protected in order to avoid grout or concrete from damaging the sides of the bearings. This can be achieved by surrounding the bearing with expanded polystyrene and taping adequately between the top surface of the bearing and the polystyrene. Polystyrene should be carefully removed after the structure has been cast.

POT BEARING COMPONENTS AND TYPES

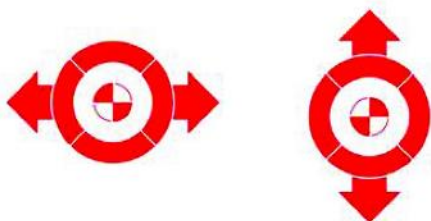
INTERBUNA designs each bearing according to the Client specifications, such as Standard, Loads, top and bottom contact surfaces, etc. Nevertheless, the following tables define the general dimensions of bearings according to the EN-1337-5, considering a maximum concrete pressure of 25 N/mm² (SLS).

Guided bearing type PG or PT



PG8000 - Guided POT Bearing - 8000 kN
Maximum Vertical Load : 8000 kN (ULS)
Maximum Horizontal Load : 10% Vmax
Rotation : 0,01 rad (ULS)

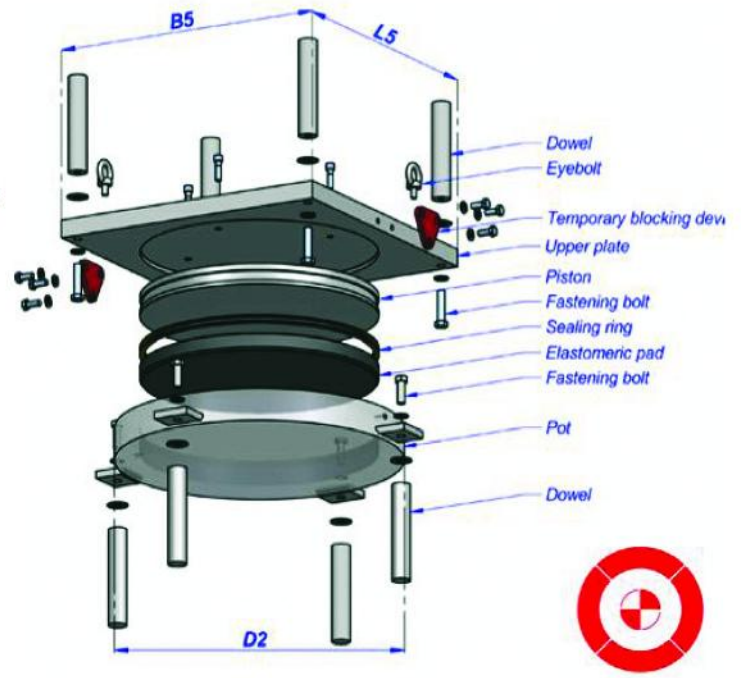
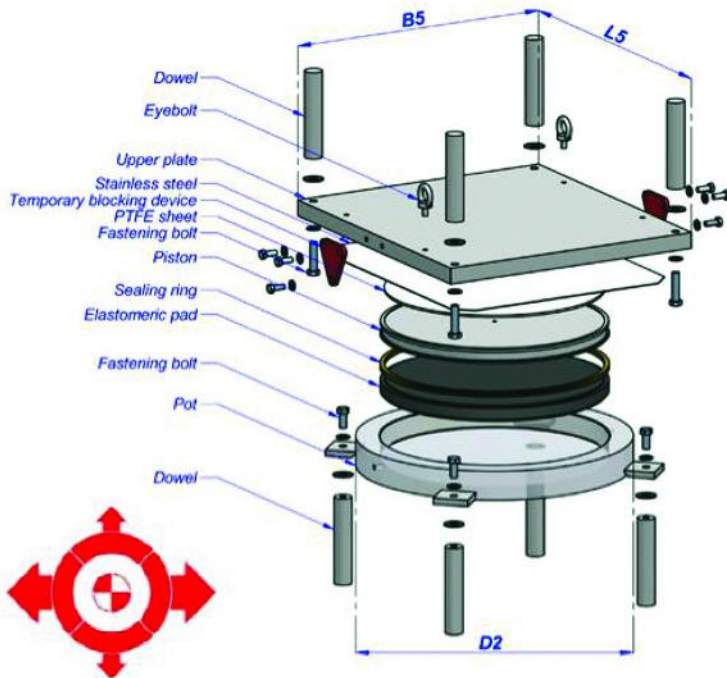
Guided	Longitudinal Displacement : ±50 mm				Weight Kg
	General dimensions (mm)				
	D2	L5	B5	H	
PG500	251	381	251	89	49
PG1000	271	401	271	89	55
PG1500	291	421	291	90	61
PG2000	324	451	324	94	74
PG2500	369	491	369	95	90
PG3000	413	531	413	100	122
PG3500	421	531	421	100	125
PG4000	456	561	456	110	153
PG4500	488	591	488	110	169
PG5000	496	591	496	110	173
PG6000	534	621	534	115	207
PG7000	572	651	572	116	232
PG8000	606	681	606	128	297
PG9000	633	701	633	133	335
PG10000	661	721	661	133	358
PG12000	723	771	723	148	465
PG14000	775	811	775	151	560
PG16000	826	851	826	172	719
PG18000	875	891	875	173	790
PG20000	917	921	917	177	866
PG24000	1004	1004	1004	188	1088
PG28000	1075	1075	1075	209	1388
PG32000	1167	1167	1167	221	1703
PG36000	1232	1232	1232	234	2014
PG40000	1332	1332	1332	247	2432
PG45000	1443	1443	1443	260	3018
PG50000	1465	1465	1465	264	3155
PG55000	1554	1554	1554	292	3939
PG60000	1573	1573	1573	292	4045
PG65000	1681	1681	1681	303	4717
PG70000	1698	1698	1698	307	4878



Dimensions given in the tables are indicative.

Multidirectional Pot Bearing type PM

Fixed Pot Bearing type PF



PM8000 - Multidirectional POT Bearing - 8000 kN
 Maximum Vertical Load: 8000 kN (ULS)
 Rotation: 0,01 rad (ULS)
 Longitudinal Displacement: ±50 mm
 Transversal Displacement: +70 mm

PF8000 - Fixed POT Bearing - 8000 kN
 Maximum Vertical Load: 8000 kN (ULS)
 Maximum Horizontal Load: 10% Vmax
 Rotation: 0,1 rad (ULS)

Multidirectional	General dimensions (mm)				Weight Kg
	D2	L5	B5	H	
PM500	241	331	241	86	43
PM1000	291	381	291	86	57
PM1500	291	381	291	86	57
PM2000	361	451	361	91	84
PM2500	361	451	361	91	84
PM3000	371	461	371	91	87
PM3500	401	491	401	92	99
PM4000	441	531	441	95	119
PM4500	441	531	441	95	119
PM5000	471	561	471	106	116
PM6000	501	591	501	106	151
PM7000	531	621	531	110	199
PM8000	561	651	561	110	216
PM10000	591	681	591	123	230
PM10300	611	701	611	120	292
PM12000	665	751	665	133	354
PM14000	732	811	732	143	445
PM16000	780	851	780	143	510
PM18000	827	891	827	153	617
PM20000	865	921	865	163	739
PM24000	949	991	949	163	824
PM28000	1017	1051	1017	180	1084
PM32000	1105	1131	1105	196	1313
PM36000	1167	1181	1167	196	1469
PM40000	1261	1271	1261	216	1887
PM45000	1307	1307	1307	216	2007
PM50000	1387	1387	1387	236	2491
PM55000	1475	1475	1475	267	3118
PM60000	1489	1489	1489	267	3186
PM65000	1594	1594	1594	287	3928
PM70000	1608	1608	1608	287	4047

Dimensions given in the tables are indicative

Fixed	General dimensions (mm)				Weight Kg
	D2	L5	B5	H	
PF500	201	201	201	80	29
PF1000	251	251	251	80	40
PF1500	251	251	251	80	40
PF2000	323	323	323	85	61
PF2500	333	333	333	85	65
PF3000	352	352	352	85	71
PF3500	385	385	385	89	86
PF4000	426	426	426	90	102
PF4500	434	434	434	90	106
PF5000	468	468	468	99	133
PF6000	507	507	507	99	153
PF7000	544	544	544	99	182
PF8000	582	582	582	105	219
PF9000	613	613	613	117	264
PF10000	641	641	641	117	285
PF12000	701	701	701	132	387
PF14000	772	772	772	137	476
PF16000	824	824	824	147	560
PF18000	873	873	873	157	700
PF20000	910	910	910	150	779
PF24000	1002	1002	1002	167	975
PF28000	1073	1073	1073	169	1274
PF32000	1164	1164	1164	199	1547
PF36000	1229	1229	1229	209	1800
PF40000	1329	1329	1329	219	2232
PF45000	1378	1378	1378	230	2554
PF50000	1461	1461	1461	240	2954
PF55000	1550	1550	1550	279	3849
PF60000	1568	1568	1568	279	3949
PF65000	1676	1676	1676	289	4597
PF70000	1693	1693	1693	289	4703

Dimensions given in the tables are indicative

The number following the type designation indicates the maximum vertical load (Ultimate Limit State), in kN.

TYPE B	Turn										Total Height										Turn										Total Height									
	Measurements	Load	No. of layers	Movements	Support			Rubber	θ	Measurements	Load	No. of layers	Movements	Support			Rubber	θ	Measurements	Load	No. of layers	Movements	Support			Rubber	θ	Measurements	Load	No. of layers	Movements	Support			Rubber	θ				
					Type C2	Type C4	Type C5							Type C2	Type C4	Type C5							Type C2	Type C4	Type C5							Type C2	Type C4	Type C5			Type C2	Type C4	Type C5	
100x150	225	1	7	42	72	26	10	0.008	350x450	2360	1	15.4	66	106	40	22	0.005	9700	5770	1	21	75	115	49	230	0.002														
		2	10.5	49	79	33	15	0.012			2	31.5	95	135	69	45	0.006																							
		3	16.3	63	93	47	20	0.016			3	42	115	155	89	60	0.008																							
		4	16	70	100	54	30	0.024			4	52.5	135	175	109	75	0.01																							
		5	7	42	72	26	10	0.005			5	73.5	175	215	149	105	0.014																							
		6	10.5	49	79	33	15	0.009			6	84	195	235	169	120	0.016																							
150x200	450	1	14	56	86	40	20	0.012	6400	1890	1	15.4	66	106	40	22	0.004	9450	8510	1	102.9	235	275	209	150	0.02														
		2	17.5	63	93	47	25	0.015			2	109	255	295	229	165	0.022																							
		3	21	70	100	54	30	0.018			3	115.7	275	315	249	180	0.024																							
		4	23.3	77	107	61	35	0.021			4	121.2	295	335	269	195	0.026																							
		5	25.3	84	114	68	40	0.024			5	126	315	355	289	210	0.028																							
		6	27	91	121	75	45	0.027			6	126	315	355	289	210	0.028																							
		7	11.2	49	79	33	16	0.006			7	25.2	81	121	55	56	0.004																							
		8	16.8	60	90	44	24	0.009			8	37.8	104	144	78	64	0.006																							
		9	22.4	71	101	55	32	0.012			9	50.4	127	167	101	72	0.008																							
200x250	750	1	16.8	60	90	44	24	0.009	6400	3000	1	30.8	96	136	70	44	0.008	9800	9600	1	121.5	265	305	239	180	0.02														
		2	22.4	71	101	55	32	0.012			2	129.2	288	328	262	198	0.022																							
		3	28	82	112	66	40	0.015			3	136.1	311	351	285	216	0.024																							
		4	31.7	93	123	77	48	0.018			4	142.2	334	374	308	234	0.026																							
		5	34.7	104	134	88	56	0.021			5	142.2	334	374	308	234	0.026																							
		6	11.2	49	79	33	16	0.006			6	85.2	196	236	170	126	0.014																							
		7	16.8	60	90	44	24	0.009			7	100.8	219	259	193	144	0.016																							
		8	22.4	71	101	55	32	0.012			8	113	242	282	216	162	0.018																							
		9	28	82	112	66	40	0.015			9	121.5	265	305	239	180	0.02																							
200x300	900	1	16.8	60	90	44	24	0.009	450x600	2390	1	30.8	96	136	70	44	0.008	900x900	12150	1	121.5	265	305	239	180	0.02														
		2	22.4	71	101	55	32	0.012			2	129.2	288	328	262	198	0.022																							
		3	28	82	112	66	40	0.015			3	136.1	311	351	285	216	0.024																							
		4	31.7	93	123	77	48	0.018			4	142.2	334	374	308	234	0.026																							
		5	34.7	104	134	88	56	0.021			5	142.2	334	374	308	234	0.026																							
		6	11.2	49	79	33	16	0.006			6	85.2	196	236	170	126	0.014																							
		7	16.8	60	90	44	24	0.009			7	100.8	219	259	193	144	0.016																							
		8	22.4	71	101	55	32	0.012			8	113	242	282	216	162	0.018																							
		9	28	82	112	66	40	0.015			9	121.5	265	305	239	180	0.02																							
8250	1200	1	16.8	60	90	44	24	0.009	9500	4050	1	30.8	96	136	70	44	0.008	9500	9540	1	121.5	265	305	239	180	0.02														
		2	22.4	71	101	55	32	0.012			2	129.2	288	328	262	198	0.022																							
		3	28	82	112	66	40	0.015			3	136.1	311	351	285	216	0.024																							
		4	31.7	93	123	77	48	0.018			4	142.2	334	374	308	234	0.026																							
		5	34.7	104	134	88	56	0.021			5	142.2	334	374	308	234	0.026																							
		6	11.2	49	79	33	16	0.006			6	85.2	196	236	170	126	0.014																							
		7	16.8	60	90	44	24	0.009			7	100.8	219	259	193	144	0.016																							
		8	22.4	71	101	55	32	0.012			8	113	242	282	216	162	0.018																							
		9	28	82	112	66	40	0.015			9	121.5	265	305	239	180	0.02																							
250x400	1500	1	16.8	60	90	44	24	0.009	6500	2960	1	30.8	96	136	70	44	0.008	6500	12150	1	121.5	265	305	239	180	0.02														
		2	22.4	71	101	55	32	0.012			2	129.2	288	328	262	198	0.022																							
		3	28	82	112	66	40	0.015			3	136.1	311	351	285	216	0.024																							
		4	31.7	93	123	77	48	0.018			4	142.2	334	374	308	234	0.026																							
		5	34.7	104	134	88	56	0.021			5	142.2	334	374	308	234	0.026																							
		6	11.2	49	79	33	16	0.006			6	85.2	196	236	170	126	0.014																							
		7	16.8	60	90	44	24	0.009			7	100.8	219	259	193	144	0.016																							
		8	22.4	71	101	55	32	0.012			8	113	242	282	216	162	0.018																							
		9	28	82	112	66	40	0.015			9	121.5	265	305	239	180	0.02																							
8300	2500	1	16.8	60	90	44	24	0.009	6500	4500	1	30.8	96	136	70	44	0.008	6500	12150	1	121.5	265	305	239	180	0.02														
		2	22.4	71	101	55	32	0.012			2	129.2	288	328	262	198	0.022																							
		3	28	82	112	66	40	0.015			3	136.1	311	351	285	216	0.024																							
		4	31.7	93	123	77	48	0.018			4	142.2	334	374	308	234	0.026																							
		5	34.7	104	134	88	56	0.021			5	142.2	334	374	308	234	0.026																							
		6	11.2	49	79	33	16	0.006			6	85.2	196	236	170	126	0.014																							
		7	16.8	60	90	44	24	0.009			7	100.8	219	259	193	144	0.016																							
		8	22.4	71	101	55	32	0.012			8	113	242	282	216	162	0.018																							
		9	28	82	112	66	40	0.015			9	121.5	265	305	239	180	0.02																							
1440	1440	1	16.8	60	90	44	24	0.009	6500	4240	1	30.8	96	136	70	44	0.008	6500	12150	1	121.5	265	305	239	180	0.02														
		2	22.4	71	101	55	32	0.012			2	129.2	288	328	262	198	0.022																							
		3	28	82	112	66	40	0.015			3	136.1	311	351	285	216	0.024																							
		4	31.7	93	123	77	48	0.018			4	142.2	334	374	308	234	0.026																							
		5	34.7	104	134	88	56	0.021			5	142.2	334	374	308	234	0.026																							
		6	11.2	49	79	33	16	0.006			6	85.2	196	236	170	126	0.014																							
		7	16.8	60	90	44	24	0.009			7	100.8	219	259	193	144	0.016																							
		8	22.4	71	101	55	32	0.012			8	113	242	282	216	162	0.018																							
		9	28	82	112	66	40	0.015			9	121.5	265	305	239	180	0.02																							



Metro Bus System Islamabad



Metro Bus Service Lahore



Multan Metro Bus Project



Chandni Chowk Rawalpindi



Canal Expressway, Faisalabad



Koral Chowk Islamabad



Aziz Cross Flyover Gujranwala



New Islamabad International Airport (NIIA)



Shahpur Kanjra Fly over

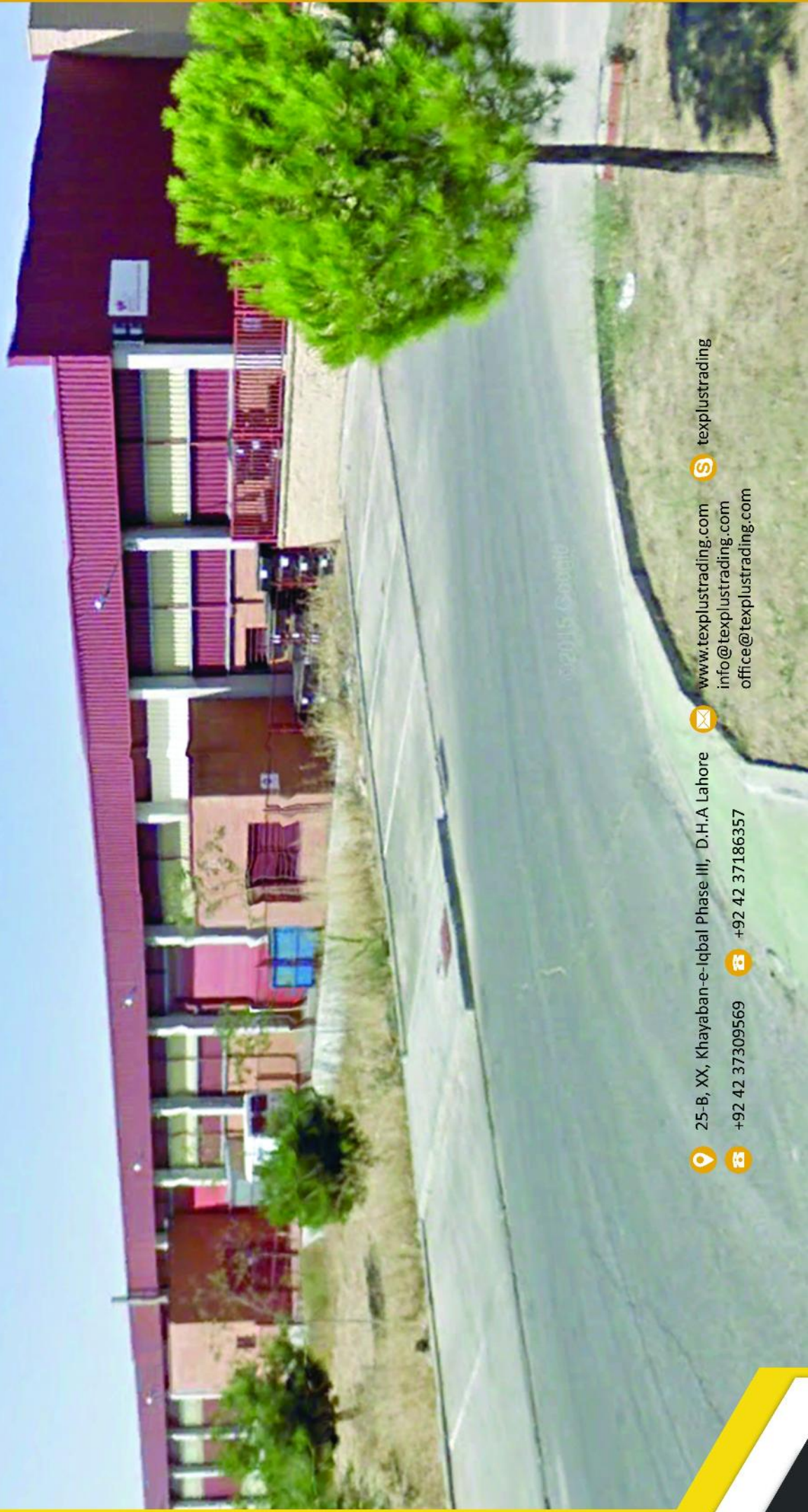


Lahore Ring Road Southern Loop

Projects Completed By INTERBUNA S.L. Spain

1	Expansion joints at Lahore Gujranwala project (C08)
2	Expansion joints at Musa Pak Shaheed Bridge Multan.
3	Bearing pads, Expansion joints at Kabul-Kandahar Highway Bridge #45 Repair Wks.
4	Bearing Pads and Expansion joints for Chandni Chowk Fly Over Rawalpindi.
5	Bearing pads for Muslim Town Fly over Lahore.
6	Bearing Pads at Lahore Rapid Transport Service Package II and Package 2-B (MetroBus Service Lahore).
7	Expansion joints at Lahore Bridge Ferozepur Road Lahore.
8	Expansion joints at 2-LaneBridge over River Indus at Khushal Garh, District Kohat and Its approach Roads. Package-III.
9	Expansion joints at 2-LaneBridge over River Indus at Khushal Garh, District Kohat and Its approach Roads. Package-II.
10	Bearing Pads at High Level Bridge L 900 Rft. On River Soan Between District Mianwali & Attock.
11	Expansion joints and Bearing pads on construction of signal free junction at Qainchi, Ghazi road and Khaira .
12	Bearing pads at Rawalpindi-Islamabad Metro Bus Project Package III Rawalpindi.
13	Expansion joints at LOS (Drain) Naula connecting Multan road with Ferozepur road , Lahore.
14	Bearing Pads and Expansion joints at Link Road Motorway at Shahpu Kanjran to Raiwind Road and Khayaban-e-Jinnah.
15	Bearing pads and Expansion joints at Sahianwala Flyover, Canal Expressway Gutwalla Bridge to (M-3) Interchange Faisalabad.
16	Expansion joints at Jhumra Flyover, Canal Expressway GATT walla Bridge to Sahianwalla (M-3) Interchange, Faisalabad
17	Bearing pads at Bridge over River Jehlum at Langarwala Pattan in District Sargodha/Khoshab.
18	Bearing Pads at Metro Bus Service Multan. Package I and Package IV.
19	Bearing pads at Hasan Abdal Havelian Section of E-35-ICB-I Burhan to Jarikas.
20	Bearing pads at Hasan Abdal Havelian Section of E-35-ICB-II Jarikas to Sarai Saleh.
21	Bearing pads at Hasan Abdal Havelian Section of E-35-ICB-III Sarai Saleh to Havelian.
22	Expansion joints at New Khanki Barrage and Auxiliary Works.
23	Bearing pads at Rehabilitation Of Road Portion Of Riawind Road From Thokar NiazBaig to Bhohtian Chowk at Sattu Katla.
24	Expansion Joints at Bridge over Railway Crossing at Kahna Kacha.
25	Expansion joints at construction of Bridge over River Ravi for Metro Bus Service Lahore.
26	Rehabilitation of Lahore-Islamabad Motorway M-2 Replacement of Bearing pads.
27	Bearing pads at Construction of Flyover at Shaheen Chowk on Gujrat ByPass (N-5) in District Gujrat.
28	Bearing pads at Green Line Metro Bus Service Project Karachi.
29	Bearing pads at Construction of Flyover on G.T Road at Aziz Crossing Gujranwala.
30	Bearing pads at Bridge of Railway Crossing Kacha Jail Road Lahore
31	Bearing pads at Karal chowk Islamabad Express way, Islamabad
32	Expansion joints at Flyover at Shaheen Chowk on Gujrat ByPass (N-5) in District Gujrat.
33	Bearing pads at Lahore Ring Road Southern loop.
34	Expansion joints at Rehabilitation of Existing Bridge over River Ravi Lahore.
35	Expansion joints at Hasan Abdal Havelian Section of E-35-ICB-I , II and III.
36	Expansion joints at Construction of Section from M-1/M-2 to New Islamabad International Airport Main Link.
37	Supply of Rubber Seal for LRTS rehabilitation WD-80.
38	Bearing pads at Karachi-Thatta Dual Carriageway at Package-1 and II FWO
39	Expansion joints at Karachi-Thatta Dual Carriageway at Package-1 and II ZKA

Interbuna Factory



25-B, XX, Khayaban-e-Iqbal Phase III, D.H.A Lahore



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