

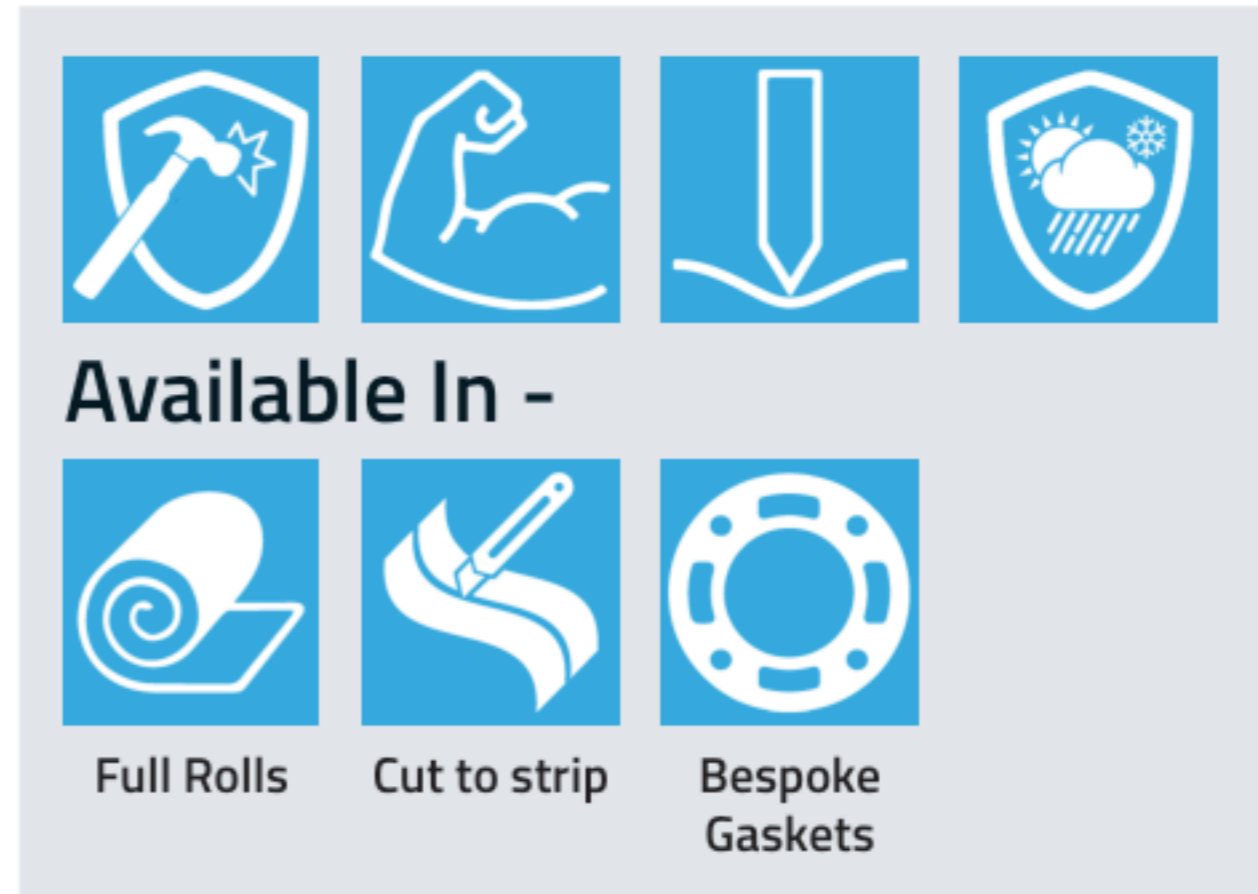
Natural Rubber Sheet Bridge Bearing BS EN 1337-3

Product Code: RC0309

Product Description

Our Natural Rubber Bridge Bearing sheet is a high-performance rubber that is often found being used for elastomeric bridge bearing pads. It is mainly used in the construction industry and is compliant with BS EN 1337-3. This product provides superior physical properties in comparison to other, standard grades of natural rubber.

Technical Specification



Properties	Test Method	Values (FPS)	Test Method	Values (Metric)
Specific Gravity	DIN 53508	1.25 ± 0.05	ASTM D297	1.25 ± 0.05
Hardness (Shore A)	DIN 53505	60 ± 5	ASTM D2240	60 ± 5
Tensile Strength	DIN 53504	2275 PSI	ASTM D412	155 kg/cm ²
Elongation at Break	DIN 53504	400%	ASTM D412	400%
Compression Set (70°C/24hrs/25% compression)	DIN 53517	30%	ASTM D395 METHOD B	30%
Tear Resistance (angular)	DIN 53515	335 lbs/inch	ASTM D624	60 kg/cm
Abrasion Resistance (mm)				120
Heat Ageing For (168hrs @ 70°C)			ASTM D573	
Temperature Range	-	-20°C to +70°C		-20°C to +70°C



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Technical Data Tolerances & Tests

Properties	Test Method	Values (FPS)	Test Method	Values (Metric)
Hardness (PTS)		-5 / +10		-5 / +10
Tensile Strength (%)		±15		±15
Elongation at Break (%)		±25		±25
Volume Swell: At 70°C for 72hrs			ASTM D471	
In IRM Oil No.1		NOT RECOMMENDED		NOT RECOMMENDED
In IRM Oil No.2		NOT RECOMMENDED		NOT RECOMMENDED
In IRM Oil No.3		NOT RECOMMENDED		NOT RECOMMENDED
Ozone Resistance Elongation 30% / 96 hrs / 40°C ± 2°C		NO CRACKS AT 25 PPHM	ASTM D 1149	NO CRACKS AT 25 PPHM
Dilute Acids and Bases		NOT RECOMMENDED		NOT RECOMMENDED
Concentrated Acids and Bases		NOT RECOMMENDED		NOT RECOMMENDED
Oils		NOT RECOMMENDED		NOT RECOMMENDED
Solvents		NOT RECOMMENDED		NOT RECOMMENDED



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Standard Sizes

Width (mm)	Thickness (mm)	Maximum Load (kn/m)	Shear Deflection (kn/m)	Shear Stiffness (kn/m)	Rotation Rads/100KN
100	10	314	7.0	11.30	0.00344
150	10	706	7.0	16.95	0.00136
200	10	1130	7.0	22.60	0.00043
250	10	1413	7.0	28.25	0.00018
300	10	1695	7.0	33.90	0.00008
100	15	209	10.5	7.53	0.02325
150	15	471	10.5	11.30	0.00459
200	15	837	10.5	15.07	0.00145
250	15	1308	10.5	18.83	0.00059
300	15	1695	10.5	22.60	0.00029
100	20	157	14.0	5.65	0.05738
150	20	353	14.0	8.48	0.01087
200	20	628	14.0	11.30	0.00344
250	20	981	14.0	14.12	0.00141
300	20	1412	14.0	16.95	0.00068
100	25	126	17.5	4.52	0.10714
150	25	282	17.5	6.78	0.02128
200	25	502	17.5	9.04	0.00673
250	25	785	17.5	11.30	0.00275
300	25	1130	17.5	13.56	0.00133
100	10	314	7.0	11.30	0.00344
150	10	706	7.0	16.95	0.00136



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