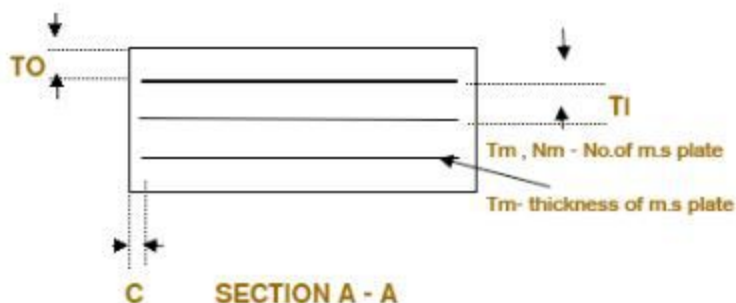
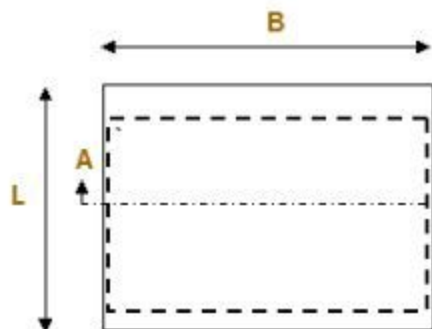


Based on BS 5400 Part 9.2:1983, Shear Modulus, $G=0.9 \text{ N/mm}^2$,
 Hardness, IRHD = 60, Bulk Modulus, $E_b = 2,000 \text{ N/mm}^2$



Note 1 :
 The Laminated Elastomeric Bearing shall be designed and manufactured in accordance with BS 5400, Section 9.2. : 1983

Laminated Rubber Bearing - Data sheet 510 X 400

Plan dimensions : 510 X 400
 Top & bottom cover rubber thickness, $T_o = 6 \text{ mm}$
 Side cover rubber thickness, $C = 10 \text{ mm}$
 Steel plate thickness, $T_m = 4.5 \text{ mm}$

PART No	DIMENSIONS			Calculated Compressive Stiffness	Calculated Rotational Capacity	Fixed Bearing		Free Bearing		Unlocated	
	B	L	T			Max Load Zero Rotation	Max Load Full Rotation	Max Load Zero Rotation	Max Load Full Rotation	Maximum Shear	Shear Stiffness
	(mm)	(mm)	(mm)	(kN/mm)	RAD/100kN	(kN)	(kN)	(kN)	(kN)	mm	kN/mm
EB5140/2/12	400	510	49.5	1835	0.00043	3220	2555	3000	2120	25.2	5.10
EB5140/3/12	400	510	66.0	1320	0.00060	3220	2490	2935	2060	33.6	3.83
EB5140/4/12	400	510	82.5	1031	0.00077	3220	2460	2860	2010	42.0	3.06
EB5140/5/12	400	510	99.0	846	0.00093	3220	2440	2795	1970	50.4	2.55
EB5140/6/12	400	510	115.5	717	0.00110	3220	2420	2720	1935	58.8	2.19
EB5140/7/12	400	510	132.0	622	0.00127	3220	2415	2650	1990	67.2	1.91
EB5140/1/15	400	510	36.0	1951	0.00040	3188	2241	2605	1889	18.9	6.80
EB5140/2/15	400	510	55.5	1106	0.00071	2578	2070	2370	1720	29.4	4.37
EB5140/3/15	400	510	75.0	771	0.00102	2578	2000	2307	1653	39.9	3.22
EB5140/4/15	400	510	94.5	592	0.00133	2578	1960	2236	1602	50.4	2.55
EB5140/5/15	400	510	114.0	481	0.00164	2578	1930	2165	1564	60.9	2.11
EB5140/6/15	400	510	133.5	404	0.00195	2578	1919	2094	1530	71.4	1.80
EB5140/2/18	400	510	61.5	698	0.00113	2140	1660	1958	1391	33.6	3.8
EB5140/3/18	400	510	84.0	479	0.00247	2140	1590	1887	1321	46.2	2.78
EB5140/4/18	400	510	106.5	364	0.00217	2140	1550	1816	1277	58.8	2.19