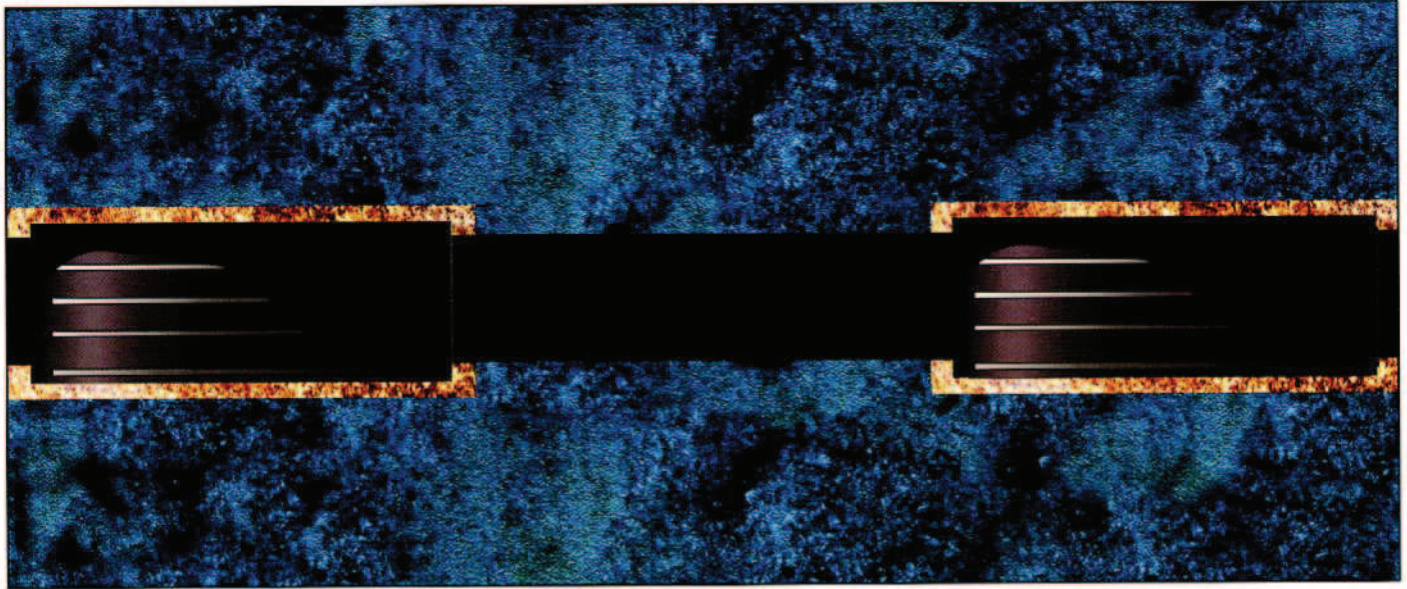


SKE Laminated Rubber / Steel Bearings



Performance

For loads of 84 kN to 5547 kN (subject to rotation and shear deflection), SKE laminated bearings provide high compression stiffness and good rotation capacity.

Dimensions

SKE bearings are available in standard sizes (see table opposite for general guidance only).

Laying instructions

Each unit is laid on a clean, smooth and level surface in accordance with the fitting instructions provided. If a bedding mortar is used, it should be high strength (eg cementitious or epoxy) and the bedding operation should be carried out whilst the mortar is plastic. In most applications, bearings are held in place by friction. In some cases, they may require to be fixed. Contact us for further advice.

Advantages

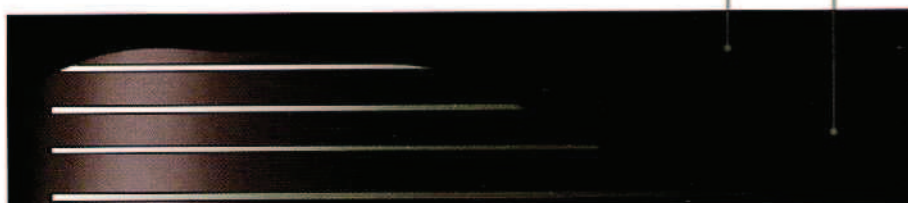
SKE bearings are moulded as single units comprising steel reinforcement plates enveloped in natural rubber (standard) or in neoprene. Strict quality control on materials and the manufacturing process ensure that the elastomer is evenly cured and chemically bonded to the steel reinforcement plates. For instance, every unit is routinely subjected to 'quick production compression tests' before despatch to site.

Materials

SKE bearings are designed and manufactured to comply with BS 5400. The standard natural rubber compound is formulated to meet the requirements of BS 5400. A neoprene compound is also available if required. The steel reinforcing plates comply with BS 1449.

Standard types

A free design service is on tap to assist engineers in selecting standard and non-standard sizes of SKE bearings or variants for special applications. The table opposite is intended to give a general choice of bearing based on information typically available at the onset of a project. However, we always recommend that engineers take advantage of our design service. We can rapidly identify the bearing providing best performance at economical cost - and we can provide the supporting data (to BS 5400).



a = Natural rubber(standard) or neoprene
b = Steel reinforcement plate

SKE Laminated Rubber / Steel Bearings

Bearing Code	Plan Size mm	Overall Height mm	Max Load kN No Rotation		Max Load kN Max Rotation		Shear Deflection mm	Rotation Rads
			No Shear	Max Shear	No Shear	Max Shear		
SKE21B641	229 X 152	20	461	353	247	200	9.8	0.0129
SKE21B642	229 X 152	31	461	338	223	179	15.4	0.0210
SKE21B643	229 X 152	42	461	322	214	169	21.0	0.0290
SKE21B644	229 X 152	53	416	307	209	163	26.6	0.0370
SKE21B661	229 X 152	24	307	230	134	109	12.6	0.0195
SKE21B662	229 X 152	39	307	215	118	95	21.0	0.0332
SKE21B663	229 X 152	54	251	197	112	90	29.4	0.0469
SKE21B665	229 X 152	84	160	106	108	84	46.2	0.0741
SKE31B641	320 X 165	20	866	668	481	389	9.8	0.0106
SKE31B642	320 X 165	31	866	641	438	350	15.4	0.0172
SKE31B643	320 X 165	42	866	615	420	333	21.0	0.0239
SKE31B644	320 X 165	53	855	588	410	321	26.6	0.0305
SKE31B661	320 X 165	24	578	436	268	218	12.6	0.0161
SKE31B662	320 X 165	39	578	410	237	191	21.0	0.0274
SKE31B663	320 X 165	54	516	383	226	180	29.4	0.0387
SKE31B664	320 X 165	69	410	300	220	174	37.8	0.0499
SKE32B641	300 X 240	22	1518	1198	698	570	9.8	0.0050
SKE32B642	300 X 240	34	1480	1167	635	516	15.4	0.0081
SKE32B643	300 X 240	46	1480	1136	610	492	21.0	0.0112
SKE32B644	300 X 240	58	1480	1105	596	478	26.6	0.0143
SKE32B648	300 X 240	106	1220	954	573	448	49.0	0.0266
SKE32B661	300 X 240	26	1012	788	390	319	12.6	0.0074
SKE32B662	300 X 240	42	987	757	345	281	21.0	0.0125
SKE32B663	300 X 240	58	987	726	329	267	29.4	0.0176
SKE32B664	300 X 240	74	987	695	321	259	37.8	0.0228
SKE32B665	300 X 240	90	863	664	316	253	46.2	0.0279
SKE32B666	300 X 240	106	730	553	312	249	54.6	0.0330
SKE42B641	455 X 220	22	2271	1866	1224	996	9.8	0.0058
SKE42B642	455 X 220	34	2082	1313	1122	907	15.4	0.0094
SKE42B643	455 X 220	46	2082	1759	1080	867	21.0	0.0130
SKE42B644	455 X 220	58	2082	1706	1057	843	26.6	0.0166
SKE42B646	455 X 220	82	2082	1599	1033	810	37.8	0.0238
SKE42B661	455 X 220	26	1584	1226	709	579	12.6	0.0087
SKE42B662	455 X 220	42	1388	1173	631	513	21.0	0.0147
SKE42B663	455 X 220	58	1388	1119	603	487	29.4	0.0208
SKE42B664	455 X 220	74	1388	1066	588	472	37.8	0.0268
SKE42B665	455 X 220	90	1230	953	579	461	46.2	0.0329
SKE42B666	455 X 220	106	1041	763	573	452	54.6	0.0339
SKE43B641	420 X 300	20	2906	2806	1555	1272	9.8	0.0032
SKE43B644	420 X 300	58	2644	2415	1349	1091	26.6	0.0090
SKE43B648	420 X 300	106	2644	2206	1303	1035	49.0	0.0168
SKE43B661	420 X 300	26	2131	1912	914	749	12.6	0.0046
SKE43B662	420 X 300	42	1776	1645	816	667	21.0	0.0078
SKE43B663	420 X 300	58	1776	1593	780	635	29.4	0.0110
SKE43B664	420 X 300	74	1776	1540	761	618	37.8	0.0142
SKE43B665	420 X 300	90	1776	1488	750	606	46.2	0.0174
SKE43B666	420 X 300	106	1776	1436	742	597	54.6	0.0026
SKE53B641	500 X 320	20	3724	3604	2178	1784	9.8	0.0028
SKE53B661	500 X 320	24	2731	2618	1316	1080	12.6	0.0040
SKE63B641	610 X 320	20	4569	4422	2918	2390	9.8	0.0028
SKE63B661	610 X 320	24	3350	3212	1805	1481	12.6	0.0040
SKE64B661	610 X 420	24	4449	4310	2416	1985	12.6	0.0023
SKE65B661	610 X 520	24	5547	5409	2923	2406	12.6	0.0015

Note: This table is for guidance only. We recommend contact is made with our technical department. The compressive loading data given here is for one case only, that of permanent and live load being equal in magnitude. Other non-standard sizes are available which are not listed above.