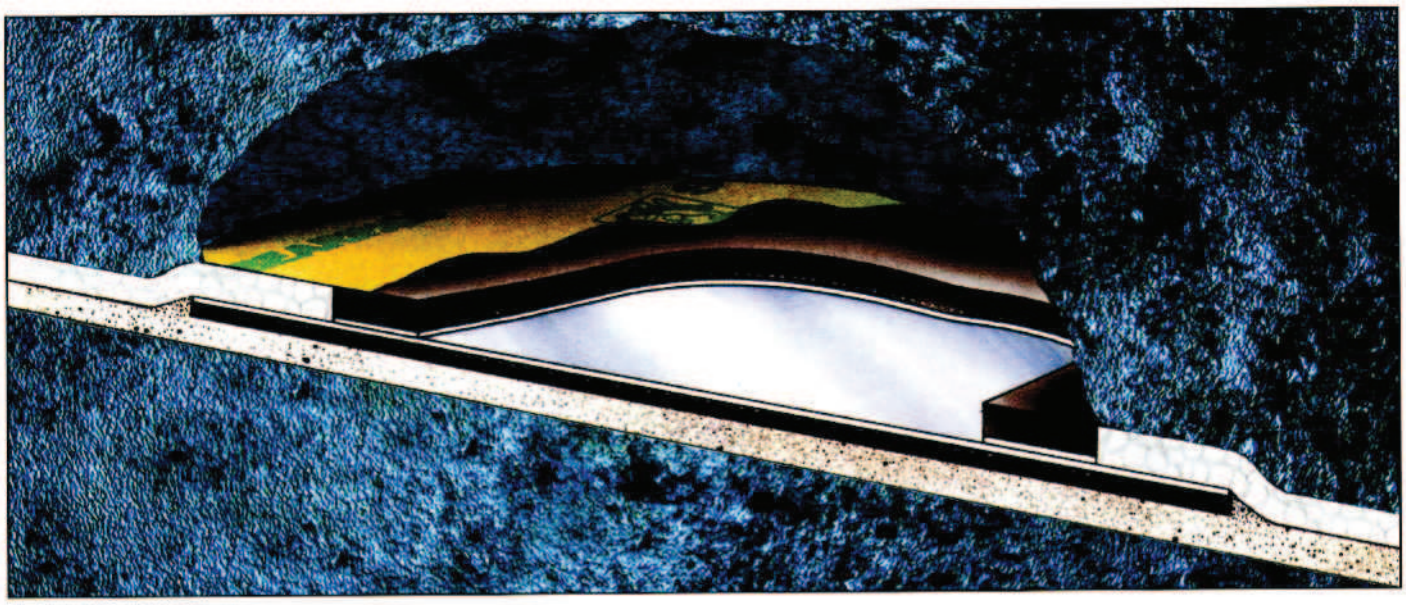
SKS Sliding Bearings



Performance

For loads up to 360 kN/m in strip form & loads up to 2000 kN for standard point load bearings. SKS bearings allow for movements of 10mm in any direction as standard and allow for some rotation.

Dimensions

The overall thickness is 7mm and the stationary pad is 25mm larger in plan size than the top load bearing pad to allow for movements of ± 10mm. This can usually be increased if required. The overall plan dimensions of the surrounding polystyrene are tailored to suit your requirements.

Laying instructions

The support surface must be flat and level (at least a steel float finish) without holes or sharp projections. The bearing is laid in one operation onto it with the waterproof backing paper uppermost. When slabs are being poured in situ, care should be taken to ensure that the complete supporting surface is covered by the SK bearing and its expanded polystyrene surround. If an adhesive is used it should be non-solvent based.

Important: Complete structures must not rest entirely on sliding bearings without some form of restraint. This may be provided by SKR Resilient bearings located at one end or centrally.

Advantages

The rubber components allow for small irregularities in the bearing surface. The PTFE and elastomer are chemically bonded under heat and pressure. An expanded polystyrene surround to fit the supporting area is supplied. This locates the pads and assists in situ pouring of super-structure concrete. Bearings are protected from wet grout and concrete by a waterproofed backing. The lubricated PTFE sliding faces give a very low coeficient of friction (in the order of 0.05). SKS bearings are now available in a fire resistant form (BS 476).

Materials

The neoprene rubber compound is specially formulated to satisfy BS 2752 and reinforced with high quality warp knitted polyester fabric. The PTFE is Grade A to BS 3784 and lubricated with silicone grease.

a = Waterproofed backing
b = 5mm thick sliding pad
c = 2mm thick stationary pad
d = PTFE-PTFE sliding faces
e = Reinforcement
f = Expanded polystyrene surround
g = Bearing range
h = Number of pads per metre
i = Width of 5mm pad across support
j = Length of 5mm pad along support
k = Overall length (metres)
l = Overall width (mm)

Standard types

Strip and Point Load Pads. When placed between steel or precast surfaces, SKS bearings come with no waterproof paper as indicated by SKS(NW). Non-standard types include holes & slots for bolts. In these cases, the load capacity of point load bearings is reduced and contact must be made with the Technical Department. (See also SKU/R)

g h i j k l

Max Load (ULS) kN/m	Strip Bearing No.
19	SKS-3-50/50-LxW
33	SKS-3-50/75-LxW
45	SKS-3-50/100-LxW
67	SKS-2-75/100-LxW
100	SKS-3-75/100-LxW
120	SKS-2-100/100-LxW
150	SKS-3-75/150-LxW
180	SKS-3-100/100-LxW
200	SKS-3-75/200-LxW
270	SKS-3-100/150-LxW
300	SKS-3-100/200-LxW

Max Load (ULS) kN	Pad Bearing No.
6	SKS-1-50/50-LxW
11	SKS-1-50/75-LxW
15	SKS-1-50/100-LxW
23	SKS-1-75/75-LxW
34	SKS-1-75/100-LxW
45	SKS-1-75/135-LxW
60	SKS-1-100/100-LxW
100	SKS-1-125/135-LxW
150	SKS-1-125/200-LxW
200	SKS-1-175/200-LxW
300	SKS-1-200/250-LxW
400	SKS-1-225/300-Lxw
500	SKS-1-280/300-LxW
1000	SKS-1-400/425-LxW
2000	SKS-1-425/800-LxW