

VSLIDE S TYPE SPF



- Transfers horizontal loads in both longitudinal and transverse directions
- Allows rotations in any direction
- Restrains horizontal movements in any direction

Bearings according to ETA 21/0726

FIXED BEARING							
DATASHEET FOR A HORIZONTAL LOAD OF 10% THE VERTICAL LOAD							
BEARING DESIGNATION	$V_{max, ULS}$ (kN)	$V_{max, SLS}$ (kN)	$H_{max, ULS}$ (kN)	$H_{max, SLS}$ (kN)	ETA		
					D5 (mm)	D2 (mm)	TH (mm)
SPF-2000-H10%	2000	1429	200	143	271	221	80
SPF-4000-H10%	4000	2858	400	286	342	292	89
SPF-6000-H10%	6000	4286	600	429	394	344	99
SPF-8000-H10%	8000	5715	800	572	452	390	99
SPF-10000-H10%	10000	7143	1000	714	489	427	125
SPF-12000-H10%	12000	8572	1200	857	539	465	116
SPF-14000-H10%	14000	10000	1400	1000	575	497	125
SPF-16000-H10%	16000	11429	1600	1143	615	525	125
SPF-18000-H10%	18000	12858	1800	1286	660	558	135
SPF-20000-H10%	20000	14286	2000	1429	695	585	136
SPF-22000-H10%	22000	15715	2200	1572	720	610	146
SPF-24000-H10%	24000	17143	2400	1714	757	635	146
SPF-26000-H10%	26000	18572	2600	1857	781	659	146
SPF-28000-H10%	28000	20000	2800	2000	808	682	156
SPF-30000-H10%	30000	21429	3000	2143	830	700	156
SPF-34000-H10%	34000	24286	3400	2429	890	744	167
SPF-38000-H10%	38000	27143	3800	2714	935	785	167
SPF-42000-H10%	42000	30000	4200	3000	986	820	177
SPF-46000-H10%	46000	32858	4600	3286	1025	859	177
SPF-50000-H10%	50000	35715	5000	3572	1077	891	188
SPF-55000-H10%	55000	39286	5500	3929	1136	934	188
SPF-60000-H10%	60000	42858	6000	4286	1176	970	197
SPF-65000-H10%	65000	46429	6500	4643	1232	1010	197
SPF-70000-H10%	70000	50000	7000	5000	1262	1044	207
SPF-80000-H10%	80000	57143	8000	5714	1363	1117	218
SPF-90000-H10%	90000	64286	9000	6429	1439	1181	229
SPF-100000-H10%	100000	71429	10000	7143	1533	1247	249

FIXED BEARING							
DATASHEET FOR A HORIZONTAL LOAD OF 20% THE VERTICAL LOAD							
BEARING DESIGNATION	$V_{max, ULS}$ (kN)	$V_{max, SLS}$ (kN)	$H_{max, ULS}$ (kN)	$H_{max, SLS}$ (kN)	ETA		
					D5 (mm)	D2 (mm)	TH (mm)
SPF-2000-H20%	2000	1429	400	286	271	221	93
SPF-4000-H20%	4000	2858	800	572	350	292	112
SPF-6000-H20%	6000	4286	1200	857	418	344	139
SPF-8000-H20%	8000	5715	1600	1143	476	390	141
SPF-10000-H20%	10000	7143	2000	1429	529	427	168
SPF-12000-H20%	12000	8572	2400	1714	575	465	159
SPF-14000-H20%	14000	10000	2800	2000	615	497	169
SPF-16000-H20%	16000	11429	3200	2286	651	525	170
SPF-18000-H20%	18000	12858	3600	2572	696	558	180
SPF-20000-H20%	20000	14286	4000	2857	727	585	190
SPF-22000-H20%	22000	15715	4400	3143	764	610	200
SPF-24000-H20%	24000	17143	4800	3429	797	635	200
SPF-26000-H20%	26000	18572	5200	3714	825	659	209
SPF-28000-H20%	28000	20000	5600	4000	856	682	210
SPF-30000-H20%	30000	21429	6000	4286	882	700	220
SPF-34000-H20%	34000	24286	6800	4857	938	744	230
SPF-38000-H20%	38000	27143	7600	5429	987	785	240
SPF-42000-H20%	42000	30000	8400	6000	1038	820	241
SPF-46000-H20%	46000	32858	9200	6572	1093	859	261
SPF-50000-H20%	50000	35715	10000	7143	1137	891	261
SPF-55000-H20%	55000	39286	11000	7857	1200	934	281
SPF-60000-H20%	60000	42858	12000	8572	1244	970	282
SPF-65000-H20%	65000	46429	13000	9286	1100	1010	300
SPF-70000-H20%	70000	50000	14000	10000	1134	1044	301
SPF-80000-H20%	80000	57143	16000	11429	1215	1117	301
SPF-90000-H20%	90000	64286	18000	12857	1283	1181	322
SPF-100000-H20%	100000	71429	20000	14286	1353	1247	342

FIXED BEARING							
DATASHEET FOR A HORIZONTAL LOAD OF 30% THE VERTICAL LOAD							
BEARING DESIGNATION	$V_{max, ULS}$ (kN)	$V_{max, SLS}$ (kN)	$H_{max, ULS}$ (kN)	$H_{max, SLS}$ (kN)	ETA		
					D5 (mm)	D2 (mm)	TH (mm)
SPF-2000-H30%	2000	1429	600	429	279	221	108
SPF-4000-H30%	4000	2858	1200	857	378	292	141
SPF-6000-H30%	6000	4286	1800	1286	454	344	159
SPF-8000-H30%	8000	5715	2400	1715	520	390	169
SPF-10000-H30%	10000	7143	3000	2143	573	427	190
SPF-12000-H30%	12000	8572	3600	2572	627	465	200
SPF-14000-H30%	14000	10000	4200	3000	675	497	209
SPF-16000-H30%	16000	11429	4800	3429	715	525	219
SPF-18000-H30%	18000	12858	5400	3857	760	558	229
SPF-20000-H30%	20000	14286	6000	4286	799	585	240
SPF-22000-H30%	22000	15715	6600	4715	844	610	260
SPF-24000-H30%	24000	17143	7200	5143	881	635	260
SPF-26000-H30%	26000	18572	7800	5572	913	659	280
SPF-28000-H30%	28000	20000	8400	6000	948	682	280
SPF-30000-H30%	30000	21429	9000	6429	974	700	281
SPF-34000-H30%	34000	24286	10200	7286	834	744	299
SPF-38000-H30%	38000	27143	11400	8143	879	785	299
SPF-42000-H30%	42000	30000	12600	9000	918	820	300
SPF-46000-H30%	46000	32858	13800	9857	961	859	320
SPF-50000-H30%	50000	35715	15000	10715	997	891	340
SPF-55000-H30%	55000	39286	16500	11786	1044	934	340
SPF-60000-H30%	60000	42858	18000	12857	1088	970	361
SPF-65000-H30%	65000	46429	19500	13929	1132	1010	368
SPF-70000-H30%	70000	50000	21000	15000	1170	1044	385
SPF-80000-H30%	80000	57143	24000	17143	1251	1117	405
SPF-90000-H30%	90000	64286	27000	19286	1323	1181	425
SPF-100000-H30%	100000	71429	30000	21429	1397	1247	450

Bearings have been designed with the following parameters :

VSLide™-M sliding material according to ETA 21/0726

Concrete on deck is H60 ($f_{ck} = 60$ MPa)

Concrete on piers and abutment is H50 ($f_{ck} = 50$ MPa)

Bearing designation: bearing type – $V_{max, ULS}$ (kN) – % $H_{max, ULS}$ (kN)

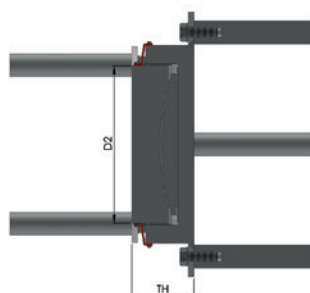
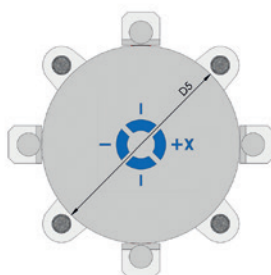
*% of horizontal load in ULS in comparison with vertical load in ULS

Minimum vertical load at SLS and ULS is 25% of maximum vertical load at SLS

Rotation 0,01 rad (EN)

Other models are available on request.

The dimensions given are indicative. Designs and dimensions may be modified by VSL without prior notification.



Notes

D5 = upper plate diameter

D2 = lower plate diameter

TH = total height