

VSLIDE S TYPE SPL



- Allow rotations in any direction
- Allow movements in any direction
- Do not bear horizontal loads apart from friction between sliding elements

Bearings according to ETA 21/0726

FREE BEARING							
DATASHEET FOR A LONGITUDINAL DISPLACEMENT OF +/-50MM							
BEARING DESIGNATION	V _{max, ULS} (kN)	V _{max, SLS} (kN)	UX (mm)	ETA			
				L5 (mm)	B5 (mm)	D2 (mm)	TH (mm)
SPL-2000 ±50	2000	1429	±50	361	261	213	69
SPL-4000 ±50	4000	2858	±50	432	332	284	79
SPL-6000 ±50	6000	4286	±50	484	384	336	88
SPL-8000 ±50	8000	5715	±50	530	430	382	88
SPL-10000 ±50	10000	7143	±50	567	467	419	102
SPL-12000 ±50	12000	8572	±50	605	505	457	102
SPL-14000 ±50	14000	10000	±50	637	537	489	112
SPL-16000 ±50	16000	11429	±50	665	565	517	112
SPL-18000 ±50	18000	12858	±50	698	598	550	112
SPL-20000 ±50	20000	14286	±50	725	625	577	118
SPL-22000 ±50	22000	15715	±50	750	650	602	127
SPL-24000 ±50	24000	17143	±50	775	675	627	127
SPL-26000 ±50	26000	18572	±50	799	699	651	133
SPL-28000 ±50	28000	20000	±50	822	722	674	138
SPL-30000 ±50	30000	21429	±50	840	740	692	142
SPL-34000 ±50	34000	24286	±50	884	784	736	144
SPL-38000 ±50	38000	27143	±50	925	825	777	152
SPL-42000 ±50	42000	30000	±50	960	860	812	152
SPL-46000 ±50	46000	32858	±50	999	899	851	162
SPL-50000 ±50	50000	35715	±50	1031	931	883	162
SPL-55000 ±50	55000	39286	±50	1074	974	926	164
SPL-60000 ±50	60000	42858	±50	1110	1010	962	172
SPL-65000 ±50	65000	46429	±50	1150	1050	1002	174
SPL-70000 ±50	70000	50000	±50	1184	1084	1036	187
SPL-80000 ±50	80000	57143	±50	1257	1157	1109	192
SPL-90000 ±50	90000	64286	±50	1321	1221	1173	207
SPL-100000 ±50	100000	71429	±50	1387	1287	1239	212

FREE BEARING							
DATASHEET FOR A LONGITUDINAL DISPLACEMENT OF +/-100MM							
BEARING DESIGNATION	$V_{max, ULS}$ (kN)	$V_{max, SLS}$ (kN)	UX (mm)	ETA			
				L5 (mm)	B5 (mm)	D2 (mm)	TH (mm)
SPL-2000 ±100	2000	1429	±100	461	261	213	74
SPL-4000 ±100	4000	2858	±100	532	332	284	84
SPL-6000 ±100	6000	4286	±100	584	384	336	88
SPL-8000 ±100	8000	5715	±100	630	430	382	92
SPL-10000 ±100	10000	7143	±100	667	467	419	103
SPL-12000 ±100	12000	8572	±100	705	505	457	107
SPL-14000 ±100	14000	10000	±100	737	537	489	112
SPL-16000 ±100	16000	11429	±100	765	565	517	117
SPL-18000 ±100	18000	12858	±100	798	598	550	117
SPL-20000 ±100	20000	14286	±100	825	625	577	118
SPL-22000 ±100	22000	15715	±100	850	650	602	128
SPL-24000 ±100	24000	17143	±100	875	675	627	132
SPL-26000 ±100	26000	18572	±100	899	699	651	137
SPL-28000 ±100	28000	20000	±100	922	722	674	138
SPL-30000 ±100	30000	21429	±100	940	740	692	143
SPL-34000 ±100	34000	24286	±100	984	784	736	148
SPL-38000 ±100	38000	27143	±100	1025	825	777	153
SPL-42000 ±100	42000	30000	±100	1060	860	812	157
SPL-46000 ±100	46000	32858	±100	1099	899	851	162
SPL-50000 ±100	50000	35715	±100	1131	931	883	167
SPL-55000 ±100	55000	39286	±100	1174	974	926	168
SPL-60000 ±100	60000	42858	±100	1210	1010	962	177
SPL-65000 ±100	65000	46429	±100	1250	1050	1002	178
SPL-70000 ±100	70000	50000	±100	1284	1084	1036	188
SPL-80000 ±100	80000	57143	±100	1357	1157	1109	192
SPL-90000 ±100	90000	64286	±100	1421	1221	1173	212
SPL-100000 ±100	100000	71429	±100	1487	1287	1239	222

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)

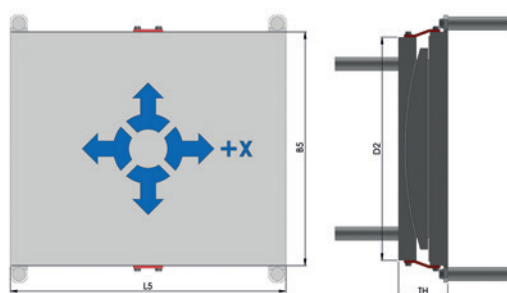
Bearing designation: bearing type – $V_{max, ULS}$ (kN) – Longitudinal displacement capacity ULS (mm)

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

L5 = upper plate length

B5 = upper plate width

D2 = lower plate diameter

TH = total height