

Section/ Schnitt A-A

Levelling of the bearing using a temporary levelling device on the milled recess on the top surface of the bearing is not possible after the bearing has been connected to the bridge deck!  
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 Einnivellierung des Lagers von oben mit 3-Punkt-Messebene; nach Einbau des Lagers ist diese Ausrichtung nicht mehr möglich!

Loads acc. to ENV 1991-3 / EC 1

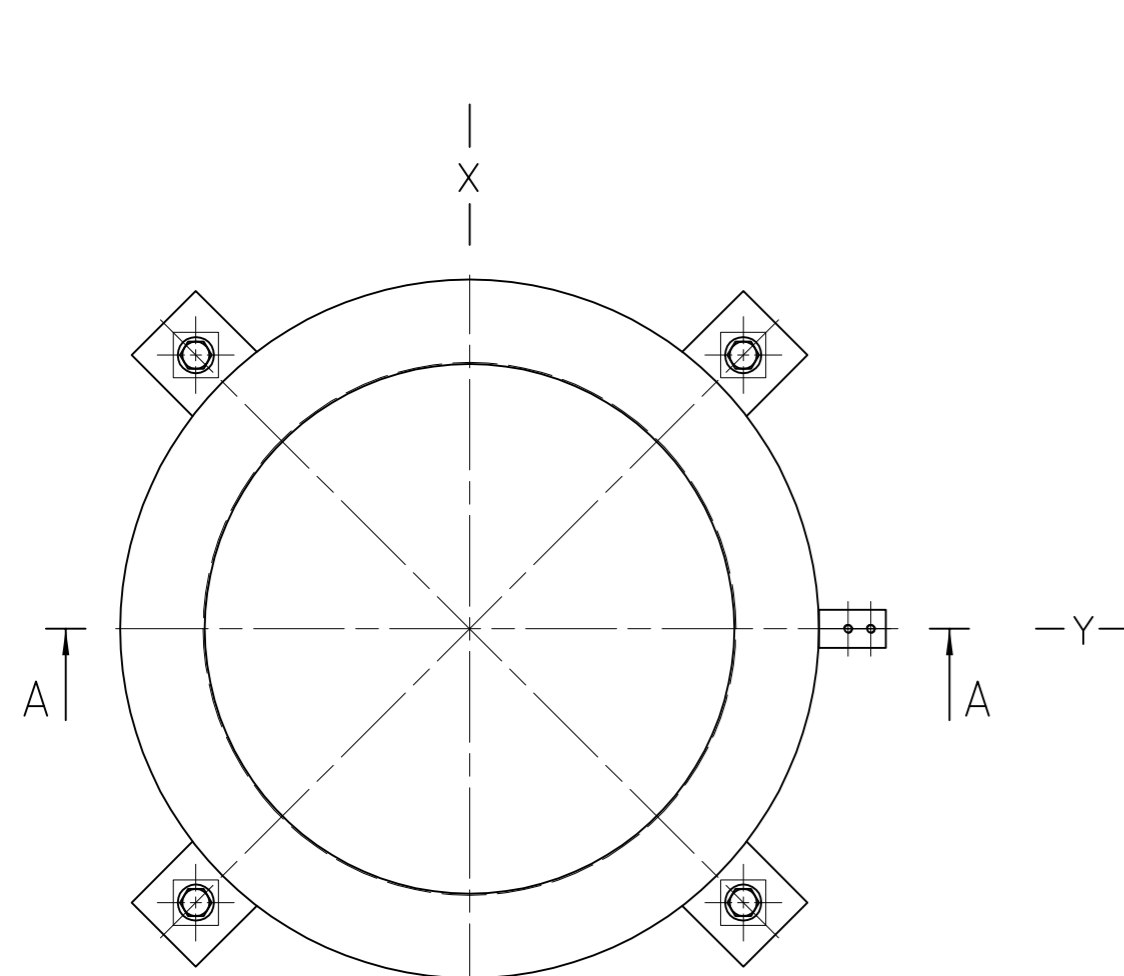
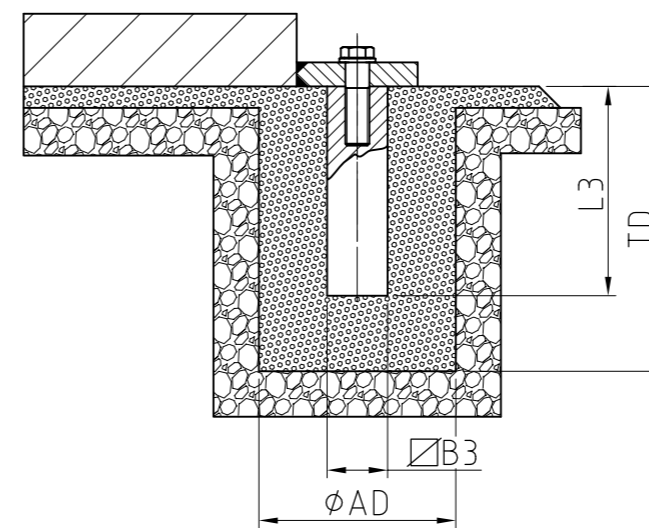
Type	Loads (kN)	
	$N_{Rd,max}$	$N_{Rd,min}$
KA 1.0	1000	300
KA 2.0	2000	600
KA 3.0	3000	900
KA 4.0	4000	1200
KA 5.0	5000	1500
KA 6.0	6000	1800
KA 7.0	7000	2100
KA 8.0	8000	2400
KA 9.0	9000	2700
KA 10.0	10000	3000
KA 12.0	12000	3600
KA 15.0	15000	4500
KA 20.0	20000	6000
KA 25.0	25000	7500
KA 30.0	30000	9000
KA 40.0	40000	12000
KA 50.0	50000	15000

DIMENSIONS (mm)

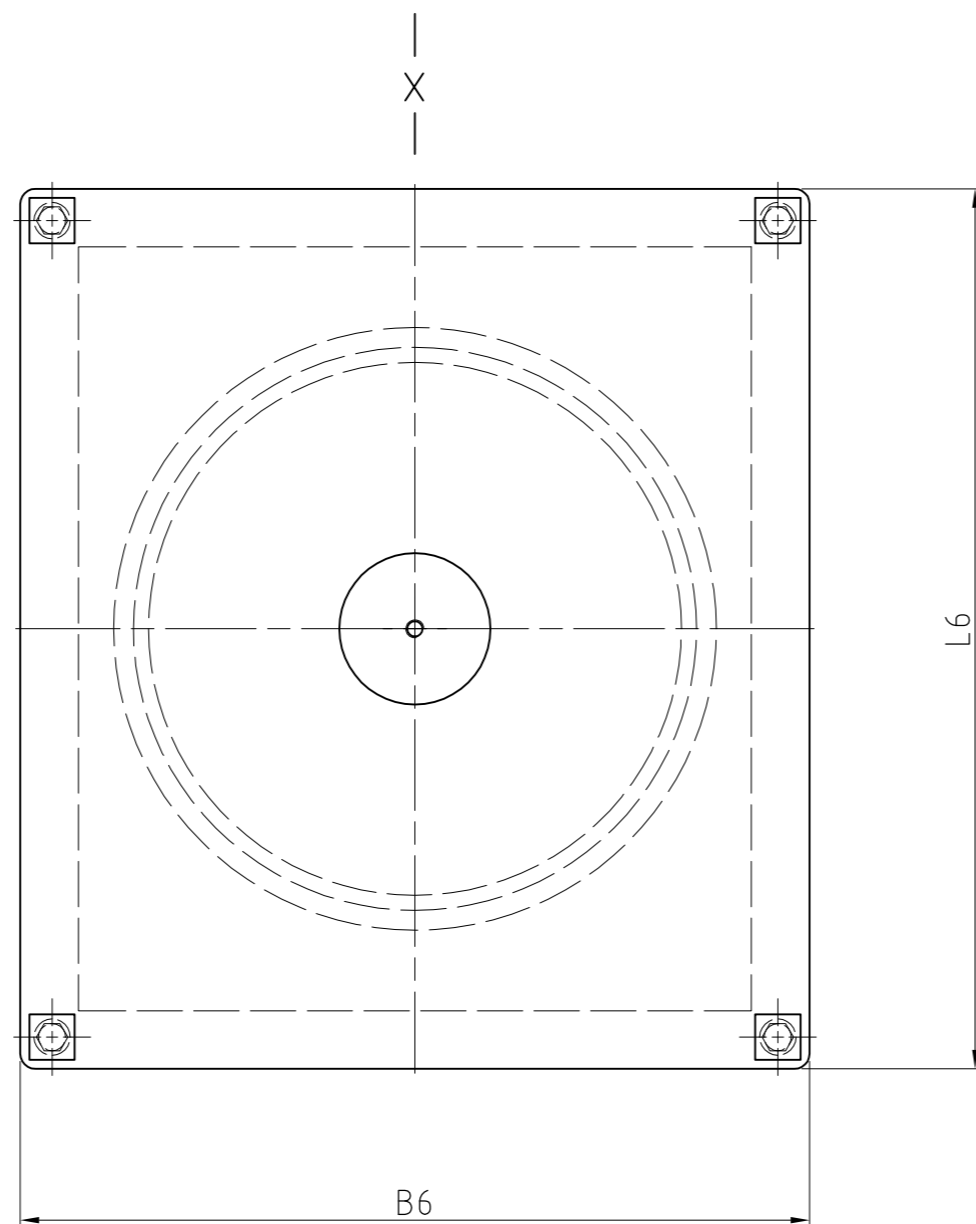
Type	ØD1	B6	L6	H	kg	Bolt
KA 1.0	183	243	303	67	30	M12
KA 2.0	236	296	356	70	43	M12
KA 3.0	278	338	398	77	60	M12
KA 4.0	320	380	440	81	76	M16
KA 5.0	364	424	484	83	95	M16
KA 6.0	397	457	517	86	115	M16
KA 7.0	417	477	537	104	152	M16
KA 8.0	456	516	576	93	158	M16
KA 9.0	479	539	599	104	193	M16
KA 10.0	507	567	627	103	214	M16
KA 12.0	548	608	668	120	284	M16
KA 15.0	616	676	736	129	390	M16
KA 20.0	708	768	828	138	539	M16
KA 25.0	797	857	917	142	688	M20
KA 30.0	881	941	1001	141	835	M20
KA 40.0	1022	1082	1142	157	1246	M20
KA 50.0	1147	1207	1267	178	1785	M20

Standard anchoring (mm)

Bolt	Dowel		Block out	
	ØB3	L3	ØAD	TD
M 12	30	180	150	250
M 16	40	200	150	250
M 20	50	250	150	300



Bottom part / Unterteil



Sliding Plate / Gleitplatte

ANGEWANDTE NORM / APPLIED STANDARD

Konstruktive Ausführung gemäss : / Design according to : EN 1337

Lasten nach : / Loads according to : ENV 1991-3 / EC 1

MAX. MÖGLICHE BEWEGUNG / MAX. POSSIBLE MOVEMENT

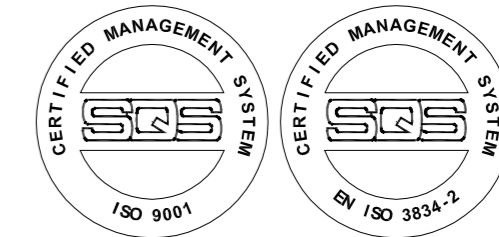
Ohne Bewegungszuschläge nach : / Exclusive of increased movement according to : EN 1337-1

Verschiebung / Displacement  $v_x$  = ± 50 mm

Verschiebung / Displacement  $v_y$  = ± 20 mm

Verdrehung / Rotation  $\alpha_{xy}$  = ± 13 ‰

QUALITY MANAGEMENT / QUALITÄTSSICHERUNG:



TECHNICAL SPECIFICATION

- Bearings are equipped with ROBO®SLIDE high-grade sliding material
- ROBO®SLIDE has the European Technical Approval ETA-08/0115
- The relevant characteristic properties of ROBO®SLIDE are:
  - characteristic permissible pressure  $f_k = 180 \text{ N/mm}^2$
  - friction coefficient  $\mu < 0,020$  with  $T \geq -5^\circ \text{C}$
- Requirements for connecting concrete bridge structure to allow an optimal load transfer:
  - Concrete quality C50/60 (EC2)
  - Cone-shaped dispersion of stress in the connecting structure

TECHNISCHE SPEZIFIKATION

- Lager ist mit hochwertigem Gleitmaterial ROBO®SLIDE ausgestattet
- ROBO®SLIDE besitzt die Europäische Technische Zulassung ETA-08/0115
- Die relevanten charakteristischen Eigenschaften von ROBO®SLIDE sind:
  - charakteristische zulässige Pressung  $f_k = 180 \text{ N/mm}^2$
  - Reibungskoeffizient  $\mu < 0,020$  bei  $T \geq -5^\circ \text{C}$
- Anforderungen für Betonbrücken, um eine optimale Lastübertragung zu ermöglichen:
  - Betonqualität C50/60 (EC2)
  - kegelförmige Lastausbreitung im Anschlussbauwerk

ANZ.	BENENNUNG	DIMENSIONEN	POS.	MATERIAL	ARTIKEL
1	Calotte / Kalotte	ØD4x(T4+H6)	8	S355J2+N	
8	Dowel / Dolle	B3xB3xL3	26	S235JR	
1	Bottom part / Unterteil	ØD1xT1	2	S355J2+N	
1	Sliding plate / Gleitplatte	L6xB6xT6	12	S355J2+N	
1	Sliding sheet / Gleitblech	L1xB1xT9	11	1.44.04	
2	ROBO®SLIDE L2	ØD5xT5	10	ROBO®SLIDE	

Revision	Date	Description	Prepared	Reviewed	Approved
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		SOLISTRASSE 68 8180 BÜLACH-SWITZERLAND TEL. +41-44-872 40 50 / FAX +41-44-872 40 59 mageba@mageba.ch - www.mageba.ch		Article-No.: <b>General tolerances according ISO 2768-</b>	
Client:		Scale:		Weight:	
Project:					
Structural Member: Spherical Bearing with RoboSlide Type KA (free sliding)		Location:		P-No.:	
				Sheet-No.:	

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Drawing-No.: KA with RoboSlide