

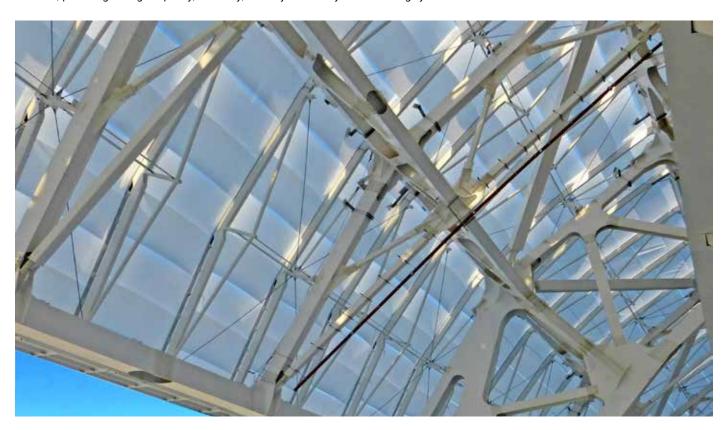
BESISTA® Rod Systems

BESISTA® BENEFITS

- Aesthetic design from every angle and down to the last detail.
- Simple installation without any additional thread protection thanks to HDG threads.
- Visual checking points via openings in rod anchors.
- Individual rod lengths up to 15 m (49.2ft).
- Capable of tolerating misalignment up to 2° due to special shape of the slot.
- Costs and material optimization thanks to 24 thread sizes from M8 (5/16 in) to M76 (3 in), with limit tensile forces up to 2016 kN (453 kips).
- ▶ Capable of transfer compression forces with compression rods made of steel or timber.
- Possibility to pretension rods with extra-light BESISTA® pretensioning systems BVS-230kN and BVS-500kN.
- ▶ Ductile iron impact toughness at -20° C (-4°F), elongation at break of 18%.

BESISTA® Rod System for architecture and civil engineering consists of rod anchors and tension / compression rods as main parts and extensive range of accessories like cover or extension sleeves and cross anchors for a wide variety of projects. BESISTA® has been used in variety of applications, from sports stadiums to eye-catching bridges. BESISTA® is ETA approved as well as a CE marked system.

The hot-dip galvanized system provides corrosion resistance for the entire lifespan of the system. In addition, the threads are also galvanized, removing the need for any additional sealing or encapsulation. Rod anchors are made of EN-GJS400-18C-LT material which is known as "ductile iron", providing enough capacity, flexibility, ductility and safety to the bracing system and braced structure.



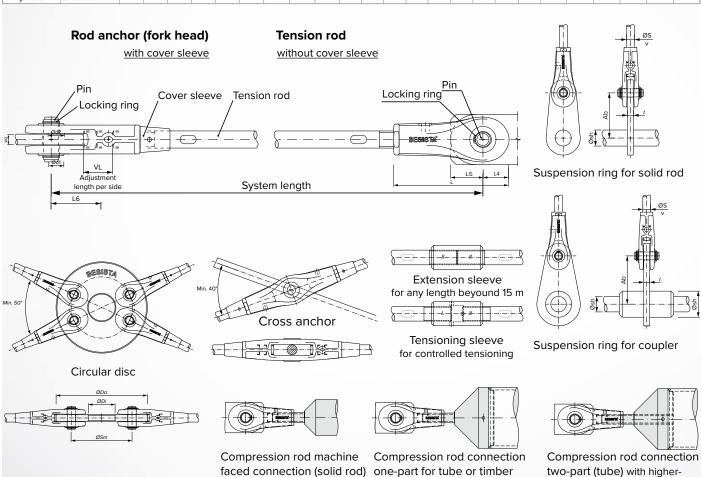






strength threaded bolts

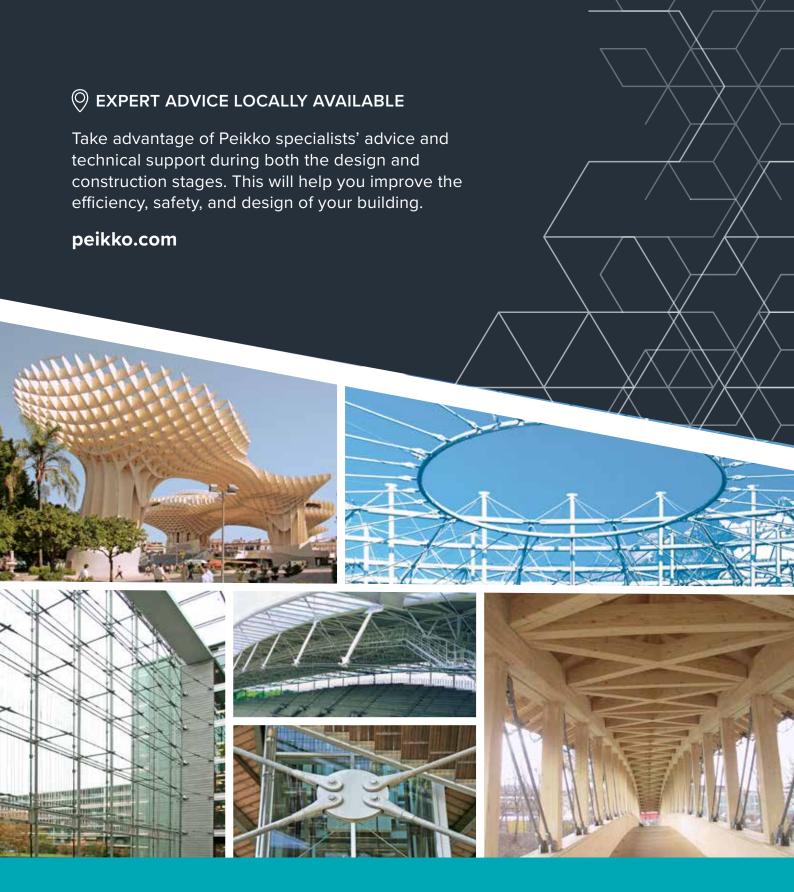
Li	Limit tensile forces N _{R,d} in kN for BESISTA® 540 (for limit compressive forces see ,Navi - Design loads')																									
Material combinations M8 M10					M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	М36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76
1	Standard tens. rod plates	S460N (R _e 540) S355	19	31	43,7	59,6	81,4	100	127	157	183	238	291	360	424	506	581	677	764	911	1053	1225	1387	1584	1796	2016
2	tens. rod plates	S460N (Re 540) GJS-400-15	16,4	27,3	40,9	57,3	81,4	92	123	135	164	203	256	338	368	465	501	614	655	798	955	1125	1200	1391	1596	1814
3	tens. rod	S460N (R _e 460) S235	15,4	25,6	38,5	53,8	76,9	86,5	110	121	148	182	230	304	331	419	451	552	589	686	821	968	1032	1197	1372	1560



Dimensions in mm for BESISTA® 540																									
Thread sizes		M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	M68	M72	M76
Tension rods	Ød	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48	52	56	60	64	68	72	76
	Ø d1 Z	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48	52	56	60	64	68	72	76
Dad anakana	Ø d1 D ¹⁾	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48	52	56	60	64	68	72	76	80
Rod anchors	V ²⁾	14	16	18	20	22	26	28	30	36	40	44	46	50	54	58	64	70	74	80	84	92	96	100	108
	L6 ³⁾	23	28	32	37	42	46	51	57	63	71	78	83	92	98	107	114	125	137	146	155	167	177	185	195
	w2 (t)	6	8	10	12	15	15	18	18	20	22	25	30	30	35	35	40	40	45	50	55	55	60	65	70
	C2 min	28	35	41	47	52	57	62	70	75	85	93	99	112	117	130	136	153	167	175	187	203	214	224	244
Gusset plates	Ø d2 Z	8,5	11	13	15	17	19	21	23	25	28	31	34	37	40	43	46	50	54	58	62	66	70	74	78
	Ø d2 D	10,5	13	15	17	19	21	23	25	28	31	34	37	40	43	46	49	54	58	62	66	70	74	78	82
	L5 4)	16	20	23	27	31	34	37	42	45	51	56	60	67	71	78	82	91	100	106	113	122	129	135	141
	Ø Da	96	118	140	162	184	204	224	248	268	302	334	364	400	430	466	496	534	582	626	668	718	764	800	848
Circular discs	Ø Di	30	36	42	48	54	60	66	72	78	88	98	108	118	128	138	148	158	170	184	196	210	226	234	248
	Ø Sm	64	78	94	108	122	136	150	164	178	200	222	244	266	288	310	332	354	382	414	442	474	506	530	566
Suspended rods	Ød						8						10							2		14			

¹⁾ Larger pin diameters apply for compression rods: Ø d1D for compression rods, Ø d1Z for tension rods - see website under "Technical data".

²⁾ Max. adjustment length = 2xV 3) Rod length = system length -2xL6 4) L5 = Distance from centre of pin to plate edge



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