ENTON

CENTRIFUGE CONCRETE POLES
CONCRETE CROSSARMS
and
CONSOLES

CENTRIFUGE CONCRETE POLES

1. The size and the type are shown together on the poles. For instance; "12/4" indicates that the concrete pole is 12 m tall and type-4.

   The peak force of the pole can be found multiplying the pole type by 100. Direct peak force of a "12/4" pole is 400 kg.

2. The pole top force is the same in every direction.

3. Pole peak force is the force exerted perpendicular to the pole axis 25 cm below the top of the mast. Nominal peak intensity is the force which the pole can securely carry as mentioned above and marked on the pole.

4. Top fracture intensity is the force which makes the pole unable to carry the load when applied perpendicular to the pole axis 25 cm below the top of the mast.

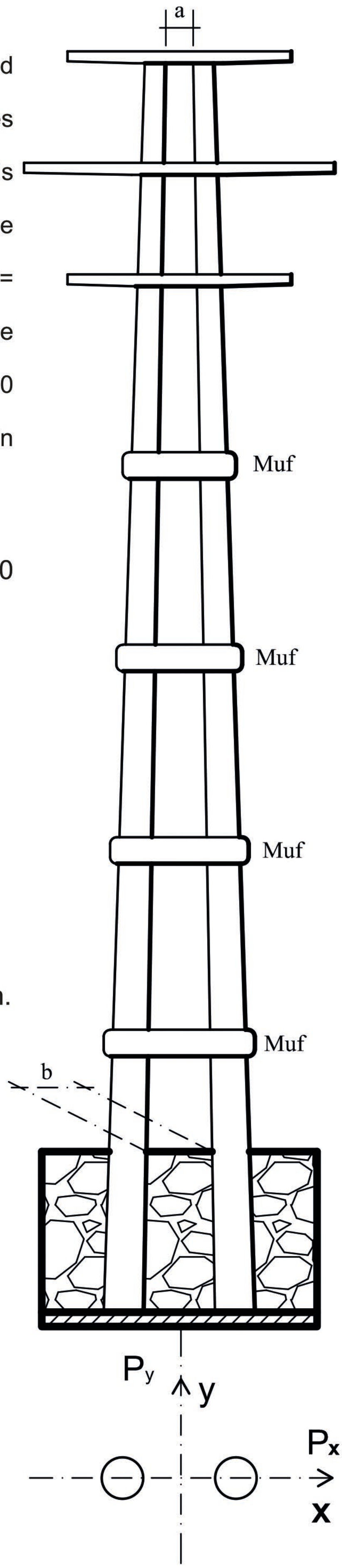
5. Safety factor; the ratio of the diffraction peak force to peak intensity. This rate should at least be 2.00 in value in standardtorsion poles, and at least 2.50 for poles which are produced for railways.

6. Thickening of the pole is 15 mm in 1 m. This thickening continues from top to bottom. However, the largest diameter is 540 mm. When this diameter is reached the pole continues as cylindrical till its end.

7. Dimensions of the pole foundations are given in the foundation selection chart.

8. The sign "CE" indicating that the product was produced and checked in accordance with conditions determined by related directives is available on the Centrifuge Concrete Poles which are manufactured according to the standards of TS EN 12843.

9. The double pole is used in cases where a larger force is required than the peak force provided in the list. Double pole is two-poles connected to each other. The peak intensity of the double pole is 2 times greater in one direction and 4 or 7 times greater in the other direction than the force of a single pole. For joint poles (a = 20 cm. B = 40 cm.) solid peak force is multiplied with 2 in one direction and 4 in the other. Power Line poles (a = 20 cm. B = 90 cm.), solid peak force is multiplied with 2 in one direction and 7 in the other.



The top force of double poles which consist of two 14/10 type poles are

x direction P * = 4 x 1,000 = 4,000 kg. or

Px 7x = 1.000 = 7.000 kg.

y direction Py = 2 x 1,000 = 2,000 kg.

In case the double pole will be planted in the direction of the line it should be shown as xx 14/10 and if it will be planted perpendicular to the line it should be shown as xxZ 14/10. The maximum distance between the mufs is 3 m.

CENTRIFUGAL POLE TOP DIAMETERS (mm)

TYPE \ HEIGH	9,30	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HEIGH / TYPE
1,5	135	135	135															1,5
2	"	"	"	135														2
2,5	"	"	"	"														2,5
3	180	180	180	180	225	225	225											3
3,5	"	"	"	"	"	"	"											3,5
4	"	"	"	"	"	"	"	225	225	225								4
5	"	"	"	225	"	"	"	"	"	"	270	270						5
6	"	"	"	"	"	"	"	"	"	"	"	"	270	270				6
7	225	225	225	"	"	"	"	"	"	"	"	"	"	"	270			7
8	"	"	"	270	270	270	270	270	270	270	"	"	"	"	"	270	360	8
9	270	270	270	"	"	"	"	"	"	"	"	"	"	"	"	"	"	9
10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	10
11	"	"	"	"	"	"	"	"	"	"	"	315	315	315	315	315	"	11
12	315	315	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	12
13	"	"	315	315	315	315	315	315	315	315	315	"	"	"	"	"	"	13
14	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	14
15	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	15
16	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	16
17	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	17
18	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	18
19	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	19
20	360	360	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	20
21	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	21
22	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	22
23	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	23
24	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	24
25	"	"	360	360	360	360	360	360	360	360	360	360	360	360	360	360	"	25
26	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	26
27	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	27
28	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	28
29	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	29
30	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"		30
31	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			31
32	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			32
33	"	"	"	"	"	"	"	"	"	"	"	"	"	"				33
34	"	"	"	"	"	"	"	"	"	"	"	"	"					34
35	"	"	"	"	"	"	"	"	"	"	"	"	"					35

Note : Pole diameter is increased by 15mm towards feet top to bottom. Largest foot diameter is 540mm.

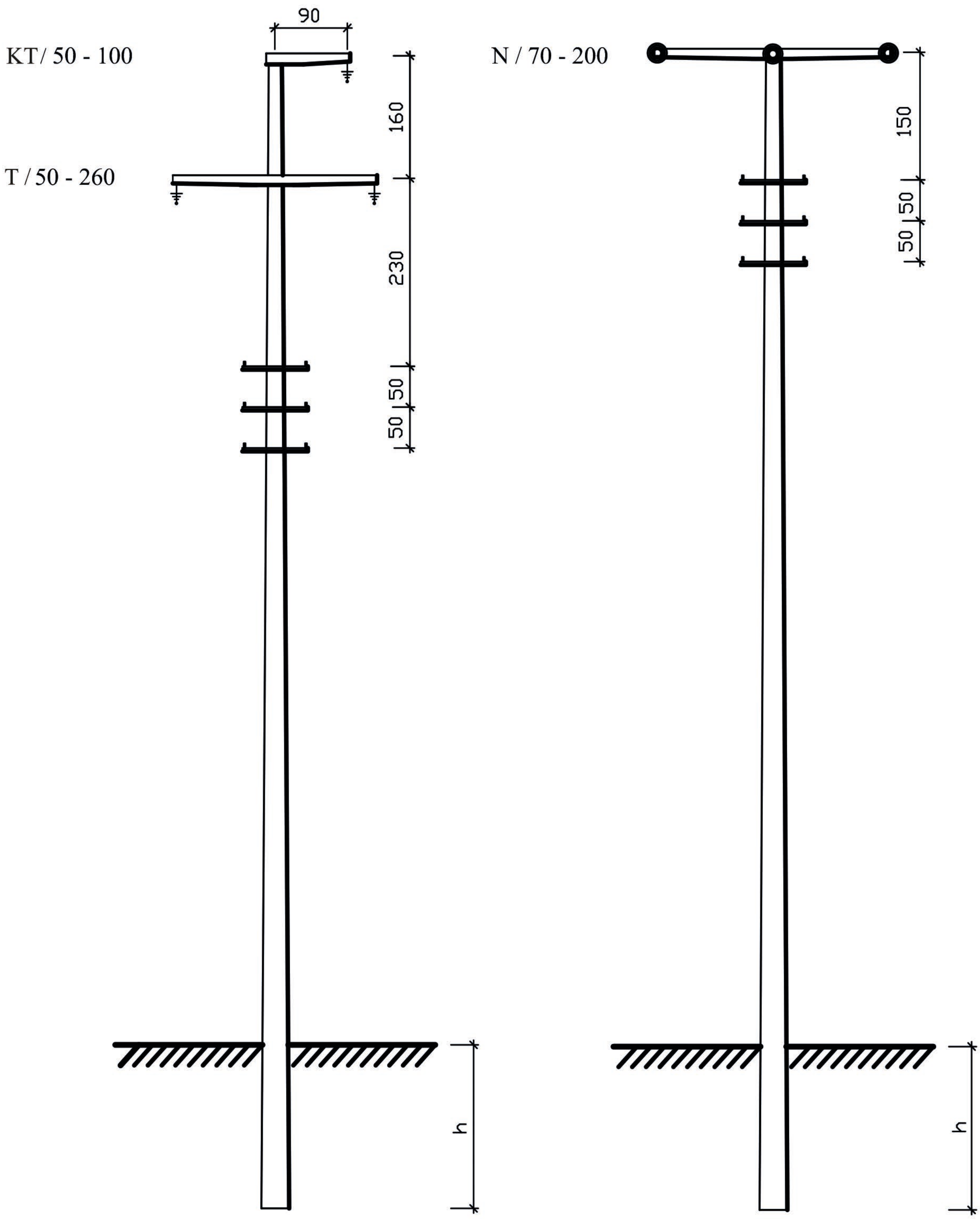
CENTRIFUGAL POLE BOTTOM DIAMETERS (mm)

HEIGH / TYPE	9,30	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HEIGH / TYPE
1,5	275	285	300															1,5
2	"	"	"	315														2
2,5	"	"	"	"														2,5
3	320	330	345	360	420	435	450											3
3,5	"	"	"	"	"	"	"											3,5
4	"	"	"	"	"	"	"	465	480	495								4
5	"	"	"	405	"	"	"	"	"	"	540	540						5
6	"	"	"	"	"	"	"	"	"	"	"	"	540	540				6
7	365	375	390	"	"	"	"	"	"	"	"	"	"	"	540			7
8	"	"	"	450	465	480	495	510	525	540	"	"	"	"	"	540	540	8
9	410	420	435	"	"	"	"	"	"	"	"	"	"	"	"	"	"	9
10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	10
11	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	11
12	455	465	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	12
13	"	"	480	495	510	525	540	540	540	"	"	"	"	"	"	"	"	13
14	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	14
15	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	15
16	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	16
17	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	17
18	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	18
19	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	19
20	500	510	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	20
21	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	21
22	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	22
23	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	23
24	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	24
25	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	25
26	"	"	525	540	540	540	"	"	"	"	"	"	"	"	"	"	"	26
27	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	27
28	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	28
29	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	29
30	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"		30
31	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			31
32	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			32
33	"	"	"	"	"	"	"	"	"	"	"	"	"	"				33
34	"	"	"	"	"	"	"	"	"	"	"	"	"					34
35	"	"	"	"	"	"	"	"	"	"	"	"	"					35

CENTRIFUGAL POLE WEIGHTS (kg)

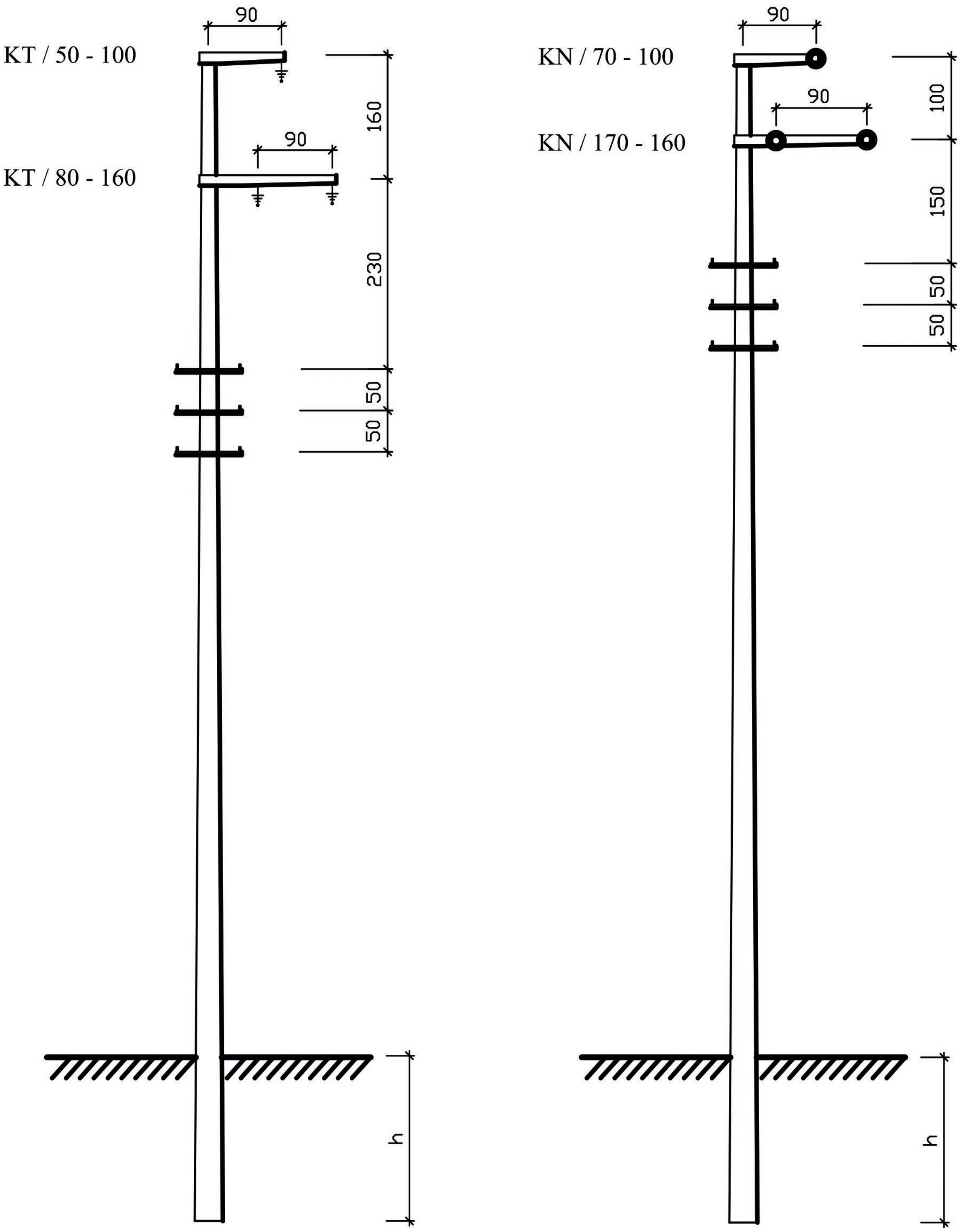
HEIGH / TYPE	9,30	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HEIGH / TYPE
1,5	620	695	815															1,5
2	625	700	825	955														2
2,5	635	710	835	965														2,5
3	865	965	1120	1285	1860	2090	2335											3
3,5	870	970	1130	1295	1870	2100	2345											3,5
4	875	975	1135	1300	1875	2105	2350	2610	2890	3180								4
5	885	990	1150	1670	1890	2125	2375	2635	2910	3205	4220	4570						5
6	900	1005	1165	1685	1910	2145	2395	2660	2935	3230	4245	4595	4950	5310				6
7	1165	1290	1490	1700	1925	2165	2415	2680	2970	3265	4280	4620	4975	5340	5695			7
8	1175	1305	1505	2110	2380	2660	2955	3270	3595	3945	4300	4655	5010	5370	5725	6085	7675	8
9	1475	1630	1870	2120	2395	2680	2975	3290	3625	3970	4330	4685	5055	5415	5775	6135	7725	9
10	1485	1645	1885	2140	2410	2690	2990	3320	3645	4000	4360	4715	5080	5445	5820	6185	7755	10
11	1495	1655	1900	2150	2425	2710	3020	3335	3675	4025	4385	5395	5760	6140	6510	6880	7805	11
12	1825	2015	1910	2170	2440	2730	3035	3360	3695	4060	4430	5435	5800	6170	6555	6910	7840	12
13	1835	2020	2310	2615	2940	3275	3625	3985	4355	4720	5090	5460	5830	6200	6595	6970	7880	13
14	1840	2030	2320	2625	2950	3285	3640	4000	4375	4740	5115	5485	5860	6245	6620	7000	7935	14
15	1850	2035	2335	2635	2960	3300	3655	4030	4400	4770	5140	5530	5905	6285	6665	7045	7980	15
16	1860	2050	2345	2650	2975	3325	3685	4050	4420	4805	5180	5555	5935	6310	6720	7105	8050	16
17	1865	2060	2355	2660	2995	3340	3700	4065	4455	4830	5205	5585	5980	6365	6750	7140	8085	17
18	1875	2065	2360	2670	3010	3355	3715	4100	4475	4850	5230	5630	6015	6400	6790	7180	8130	18
19	1885	2075	2380	2690	3020	3365	3740	4115	4495	4885	5265	5650	6060	6455	6845	7240	8185	19
20	2245	2475	2390	2700	3045	3390	3755	4155	4515	4915	5300	5700	6095	6485	6880	7280	8240	20
21	2255	2480	2400	2720	3060	3405	3775	4170	4545	4940	5325	5735	6125	6520	6940	7355	8295	21
22	2260	2485	2410	2730	3070	3420	3790	4180	4565	4950	5365	5760	6155	6575	6990	7385	8345	22
23	2265	2490	2430	2745	3085	3440	3810	4205	4590	4980	5395	5795	6190	6615	7025	7430	8400	23
24	2275	2500	2435	2755	3100	3450	3840	4225	4610	5015	5445	5815	6245	6655	7060	7490	8445	24
25	2275	2510	2860	3230	3620	4000	4375	4775	5170	5565	5965	6370	6770	7240	7650	8080	8490	25
26	2285	2520	2880	3250	3640	4015	4395	4800	5200	5600	5995	6405	6860	7270	7700	8120	8530	26
27	2295	2535	2885	3260	3655	4035	4435	4820	5220	5615	6020	6475	6895	7310	7740	8165	8585	27
28	2300	2535	2895	3265	3655	4045	4435	4835	5235	5640	6045	6505	6930	7345	7780	8210	8625	28
29	2315	2550	2910	3280	3675	4055	4455	4855	5260	5675	6115	6530	6955	7375	7810	8245	8670	29
30	2320	2555	2910	3290	3685	4070	4475	4875	5280	5690	6155	6570	7000	7420	7865	8295		30
31	2330	2570	2935	3295	3695	4085	4485	4890	5335	5750	6165	6595	7025	7455	7900			31
32	2330	2570	2940	3315	3710	4115	4510	4910	5360	5785	6200	6635	7070	7495	7935			32
33	2340	2580	2950	3325	3730	4130	4515	4970	5390	5800	6230	6665	7100	7535				33
34	2350	2590	2960	3325	3745	4140	4535	4995	5415	5830	6265	6700	7130					34
35	2350	2605	2970	3345	3765	4160	4595	5015	5430	5860	6295	6730	7165					35

JOINT POLES



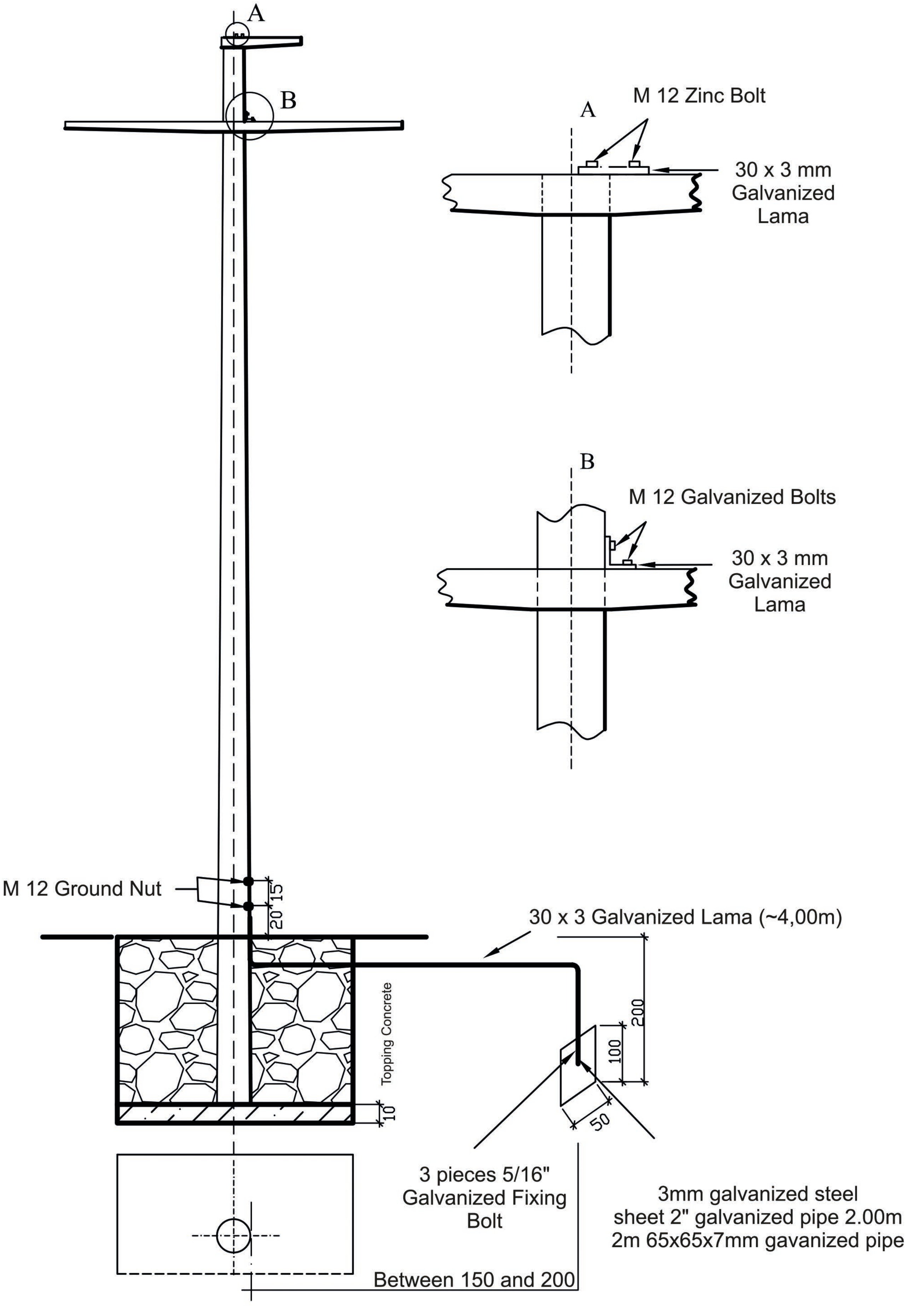
(Measurement are given in mm)

JOINT POLES



(Measurement are given in mm)

MEDIUM VOLTAGE GROUNDING AND DETAILS



(Measurement are given in mm)

SINGLE POLE (Safety factor 2.00) FOUNDATION SELECTION CHART (m)

HEIGH / TYPE	9,30	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HEIGH / TYPE
1,5	0,60	0,60	0,60															**1,5**
2	0,60	0,60	0,60	0,70														**2**
2,5	0,70	0,60	0,60	0,70														**2,5**
3	0,70	0,70	0,70	0,70	0,80	0,80	0,80											**3**
3,5	0,90	0,70	0,70	0,70	0,80	0,80	0,80											**3,5**
4	1,00	0,80	0,80	0,80	0,80	0,80	0,80	0,80										**4**
5	1,10	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,90	0,90						**5**
6	1,20	0,90	0,90	0,80	0,80	0,80	0,80	0,90	0,90	1,00	1,00	1,00	1,10	1,10				**6**
7	1,30	1,00	1,00	0,80	0,80	0,90	0,90	1,00	1,00	1,10	1,10	1,10	1,20	1,20	1,30			**7**
8	1,30	1,00	1,10	0,90	0,90	1,00	1,00	1,10	1,10	1,20	1,20	1,20	1,30	1,30	1,40	1,40	1,40	**8**
9	1,40	1,10	1,20	1,00	1,00	1,10	1,10	1,20	1,20	1,30	1,30	1,30	1,40	1,40	1,50	1,50	1,50	**9**
10	1,50	1,20	1,30	1,00	1,10	1,10	1,20	1,20	1,30	1,30	1,40	1,40	1,50	1,50	1,50	1,60	1,60	**10**
11	1,60	1,30	1,40	1,10	1,10	1,20	1,30	1,30	1,40	1,40	1,50	1,50	1,50	1,60	1,60	1,70	1,70	**11**
12	1,70	1,30	1,40	1,10	1,20	1,30	1,30	1,40	1,40	1,50	1,50	1,60	1,60	1,70	1,70	1,70	1,80	**12**
13	1,70	1,40	1,50	1,20	1,30	1,30	1,40	1,40	1,50	1,60	1,60	1,60	1,70	1,70	1,80	1,80	1,90	**13**
14	1,80	1,50	1,60	1,30	1,30	1,40	1,50	1,50	1,60	1,60	1,70	1,70	1,80	1,80	1,90	1,90	1,90	**14**
15	1,90	1,50	1,60	1,30	1,40	1,50	1,50	1,60	1,60	1,70	1,70	1,80	1,80	1,90	1,90	2,00	2,00	**15**
16	2,00	1,60	1,70	1,40	1,40	1,50	1,60	1,60	1,70	1,70	1,80	1,80	1,90	1,90	2,00	2,00	2,10	**16**
17	2,00	1,60	1,70	1,40	1,50	1,60	1,60	1,70	1,70	1,80	1,90	1,90	1,90	2,00	2,00	2,10	2,10	**17**
18	2,00	1,70	1,80	1,50	1,50	1,60	1,70	1,70	1,80	1,90	1,90	2,00	2,00	2,10	2,10	2,10	2,20	**18**
19	2,10	1,70	1,80	1,50	1,60	1,70	1,70	1,80	1,80	1,90	2,00	2,00	2,10	2,10	2,20	2,20	2,30	**19**
20	2,10	1,80	1,90	1,60	1,60	1,70	1,80	1,80	1,90	1,90	2,00	2,10	2,10	2,20	2,20	2,30	2,30	**20**
21	2,20	1,80	1,90	1,60	1,70	1,70	1,80	1,90	1,90	2,00	2,10	2,10	2,20	2,20	2,30	2,30	2,40	**21**
22	2,20	1,80	1,90	1,60	1,70	1,80	1,90	1,90	2,00	2,10	2,10	2,20	2,20	2,30	2,30	2,40	2,40	**22**
23	2,30	1,90	2,00	1,70	1,80	1,80	1,90	2,00	2,00	2,10	2,20	2,20	2,30	2,30	2,40	2,40	2,50	**23**
24	2,30	1,90	2,00	1,70	1,80	1,90	1,90	2,00	2,10	2,10	2,20	2,30	2,30	2,40	2,40	2,50	2,50	**24**
25	2,40	2,00	2,10	1,80	1,80	1,90	2,00	2,10	2,10	2,20	2,20	2,30	2,40	2,40	2,50	2,50	2,50	**25**
26	2,40	2,00	2,10	1,80	1,90	1,90	2,00	2,10	2,20	2,20	2,30	2,30	2,40	2,40	2,50	2,50	2,60	**26**
27	2,40	2,00	2,10	1,80	1,90	2,00	2,10	2,10	2,20	2,30	2,30	2,40	2,40	2,50	2,50	2,60	2,60	**27**
28	2,50	2,00	2,10	1,90	1,90	2,00	2,10	2,20	2,20	2,30	2,40	2,40	2,50	2,50	2,60	2,60	2,70	**28**
29	2,50	2,10	2,20	1,90	2,00	2,10	2,10	2,20	2,30	2,30	2,40	2,50	2,50	2,60	2,60	2,70	2,70	**29**
30	2,50	2,20	2,30	1,90	2,00	2,10	2,20	2,20	2,30	2,40	2,40	2,50	2,50	2,60	2,70	2,70		**30**
31	2,60	2,30	2,40	2,00	2,10	2,10	2,20	2,30	2,30	2,40	2,50	2,60	2,60	2,70	2,80			**31**
32	2,60	2,30	2,40	2,00	2,10	2,20	2,20	2,30	2,40	2,40	2,50	2,60	2,60	2,70	2,80			**32**
33	2,70	2,30	2,40	2,00	2,10	2,20	2,30	2,30	2,40	2,50	2,50	2,60	2,60	2,70				**33**
34	2,70	2,40	2,50	2,10	2,10	2,20	2,30	2,40	2,40	2,50	2,60	2,70	2,70					**34**
35	2,70	2,50	2,60	2,10	2,20	2,30	2,30	2,40	2,50	2,50	2,60	2,70	2,70					**35**
h	1,20	1,50	1,50	2,00														**h**

SINGLE POLE (Safety factor 2.21) FOUNDATION SELECTION CHART (m)

HEIGH / TYPE	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HEIGH / TYPE
3	1	1	1	1	1	2											**3**
3,5	1	1	1	2	2	2											**3,5**
4	1	2	2	2	2	2	3										**4**
5	2	2	2	3	3	4	4	4	5	5	6						**5**
6	2	3	3	4	4	5	5	6	6	6	6	7	7				**6**
7	3	4	4	5	5	6	6	6	7	7	8	8	8	9			**7**
8	4	4	5	6	6	6	7	8	8	8	9	9	10	10	10	11	**8**
9	4	5	6	6	7	8	8	8	9	9	10	10	11	11	12	12	**9**
10	6	6	6	7	8	8	9	9	10	10	11	12	12	12	13	13	**10**
11	6	6	7	8	8	9	10	10	11	12	12	12	13	13	14	14	**11**
12	6	7	8	9	9	10	10	11	12	12	13	13	14	14	14	15	**12**
13	7	8	9	9	10	11	12	12	12	13	14	14	14	15	15	15	**13**
14	8	8	9	10	11	12	12	13	13	14	14	14	15	15	15	16	**14**
15	8	9	10	11	12	12	13	14	14	14	15	15	15	16	16	16	**15**
16	9	10	10	12	12	13	14	14	14	15	15	16	16	16	17	17	**16**
17	9	10	11	12	13	14	14	14	15	15	16	16	16	17	17	17	**17**
18	10	11	12	12	13	14	14	15	15	16	16	16	17	17	18	18	**18**
19	10	12	12	13	14	14	15	15	16	16	16	17	17	18	18	18	**19**
20	11	12	13	14	14	15	15	16	16	16	17	17	18	18	18	19	**20**
21	12	12	13	14	14	15	16	16	16	17	17	18	18	19	19	19	**21**
22	12	13	14	14	15	15	16	16	17	17	18	18	19	19	19	20	**22**
23	12	14	14	15	15	16	16	17	17	18	18	19	19	19	20	20	**23**
24	13	14	14	15	16	16	17	17	18	18	18	19	19	20	20	21	**24**
25	13	14	15	15	16	16	17	17	18	18	19	19	20	20			**25**
26	14	14	15	16	16	17	17	18	18	19	19	20	20	21			**26**
27	14	15	15	16	16	17	18	18	19	19	20	20	20				**27**
28	14	15	16	16	17	17	18	18	19	20	20	21					**28**
29	14	15	16	16	17	18	18	19	19	20	20						**29**
30	15	15	16	17	17	18	19	19	20	20	21						**30**
31	16	16	16	17	18	18	19	19	20	21							**31**
32	16	16	17	17	18	19	19	20	20	21							**32**
33	16	16	17	17	18	19	20	20	21								**33**
34	16	16	17	18	18	20	20	20	21								**34**
35	16	17	17	18	19	20	20	21									**35**

NOTE : The values given above are the Basic Type Numbers.

DOUBLE POLES (Safety Factor 2.21) RECTANGULAR BLOCK FOUNDATION SELECTION CHART (Po=1kg/cm^2)

TİP \ BOY	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BOY / TİP
400	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	**400**
500	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 320	250 - 320	**500**
600	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 320	250 - 340	250 - 360	250 - 360	250 - 380	**600**
700	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 300	250 - 320	250 - 340	250 - 340	250 - 360	250 - 380	250 - 400	250 - 400	250 - 420	**700**
800	250 - 300	250 - 300	250 - 300	250 - 300	250 - 320	250 - 340	250 - 360	250 - 360	250 - 380	250 - 400	250 - 420	250 - 440	250 - 480	250 - 480	**800**
900	250 - 300	250 - 300	250 - 300	250 - 320	250 - 340	250 - 360	250 - 380	250 - 400	250 - 420	250 - 440	250 - 480	250 - 500	250 - 520	250 - 540	**900**
1000	250 - 300	250 - 300	250 - 320	250 - 360	250 - 380	250 - 400	250 - 420	250 - 440	250 - 480	250 - 500	250 - 520	250 - 540	250 - 560	250 - 580	**1000**
1100	250 - 300	250 - 320	250 - 360	250 - 380	250 - 400	250 - 420	250 - 440	250 - 480	250 - 520	250 - 540	250 - 560	250 - 580	250 - 600	250 - 600	**1100**
1200	250 - 320	250 - 360	250 - 380	250 - 400	250 - 420	250 - 480	250 - 500	250 - 520	250 - 540	250 - 560	250 - 580	250 - 600	300 - 540	300 - 580	**1200**
1300	250 - 340	250 - 380	250 - 400	250 - 440	250 - 480	250 - 500	250 - 520	250 - 560	250 - 580	250 - 600	300 - 540	300 - 560	300 - 580	300 - 600	**1300**
1400	250 - 360	250 - 400	250 - 420	250 - 480	250 - 500	250 - 520	250 - 560	250 - 580	250 - 600	300 - 540	300 - 580	300 - 600	300 - 620	300 - 640	**1400**
1500	250 - 380	250 - 420	250 - 440	250 - 500	250 - 520	250 - 560	250 - 580	250 - 600	300 - 560	300 - 580	300 - 600	300 - 620	300 - 640	300 - 680	**1500**
1600	250 - 400	250 - 440	250 - 500	250 - 520	250 - 560	250 - 580	250 - 600	300 - 560	300 - 580	300 - 600	300 - 640	300 - 680	300 - 700	300 - 720	**1600**
1700	250 - 420	250 - 480	250 - 520	250 - 540	250 - 580	250 - 600	300 - 560	300 - 580	300 - 620	300 - 640	300 - 680	300 - 700	300 - 720	350 - 660	**1700**
1800	250 - 440	250 - 500	250 - 540	250 - 560	250 - 600	300 - 540	300 - 580	300 - 600	300 - 640	300 - 680	300 - 700	300 - 720	350 - 660	350 - 660	**1800**
1900	250 - 480	250 - 520	250 - 560	250 - 580	300 - 540	300 - 580	300 - 600	300 - 640	300 - 680	300 - 700	350 - 660	350 - 660	350 - 660	350 - 680	**1900**
2000	250 - 500	250 - 540	250 - 580	250 - 600	300 - 560	300 - 600	300 - 620	300 - 680	300 - 700	350 - 660	350 - 660	350 - 660	350 - 680	350 - 720	**2000**
2100	250 - 520	250 - 560	250 - 600	300 - 540	300 - 580	300 - 620	300 - 640	300 - 700	300 - 720	350 - 660	350 - 660	350 - 680	350 - 720	350 - 740	**2100**
2200	250 - 540	250 - 580	300 - 540	300 - 580	300 - 600	300 - 640	300 - 680	300 - 720	350 - 660	350 - 660	350 - 680	350 - 720	350 - 740	350 - 760	**2200**
2300	250 - 560	250 - 600	300 - 560	300 - 600	300 - 620	300 - 680	300 - 720	350 - 660	350 - 660	350 - 680	350 - 700	350 - 740	350 - 760	350 - 780	**2300**
2400	250 - 560	250 - 600	300 - 580	300 - 620	300 - 640	300 - 700	350 - 660	350 - 660	350 - 680	350 - 700	350 - 720	350 - 760	350 - 780	350 - 800	**2400**
2500	250 - 580	300 - 540	300 - 600	300 - 620	300 - 680	300 - 720	350 - 660	350 - 660	350 - 700	350 - 720	350 - 740	350 - 780	350 - 800	350 - 820	**2500**
2600	250 - 600	300 - 560	300 - 600	300 - 640	300 - 700	350 - 660	350 - 660	350 - 680	350 - 720	350 - 740	350 - 780	350 - 800	350 - 820	350 - 860	**2600**
2700	300 - 540	300 - 580	300 - 620	300 - 680	300 - 720	350 - 660	350 - 680	350 - 700	350 - 740	350 - 760	350 - 800	350 - 820	350 - 840		**2700**
2800	300 - 560	300 - 600	300 - 640	300 - 700	350 - 660	350 - 660	350 - 680	350 - 720	350 - 760	350 - 780	350 - 820	350 - 840	350 - 860		**2800**
2900	300 - 580	300 - 620	300 - 680	300 - 720	350 - 660	350 - 680	350 - 700	350 - 740	350 - 760	350 - 800	350 - 820	350 - 860			**2900**
3000	300 - 580	300 - 620	300 - 700	350 - 660	350 - 660	350 - 680	350 - 720	350 - 760	350 - 780	350 - 820	350 - 840				**3000**
3100	300 - 600	300 - 640	300 - 700	350 - 660	350 - 680	350 - 700	350 - 740	350 - 780	350 - 800	350 - 840	350 - 860				**3100**
3200	300 - 620	300 - 680	300 - 720	350 - 660	350 - 680	350 - 720	350 - 760	350 - 800	350 - 820	350 - 860					**3200**
3300	300 - 620	300 - 700	350 - 660	350 - 660	350 - 700	350 - 740	350 - 780	350 - 800	350 - 840						**3300**
3400	300 - 640	300 - 700	350 - 660	350 - 680	350 - 720	350 - 760	350 - 780	350 - 820	350 - 860						**3400**
3500	300 - 680	300 - 720	350 - 660	350 - 700	350 - 720	350 - 760	350 - 800	350 - 840							**3500**

NOTE : Basic types cm respectively denominated rectangle shows the short-long-edge basis. The depth of all basic 2.10m.

DOUBLE POLE (Safety Factor 2.21) FOUNDATION SELECTION CHART (m)

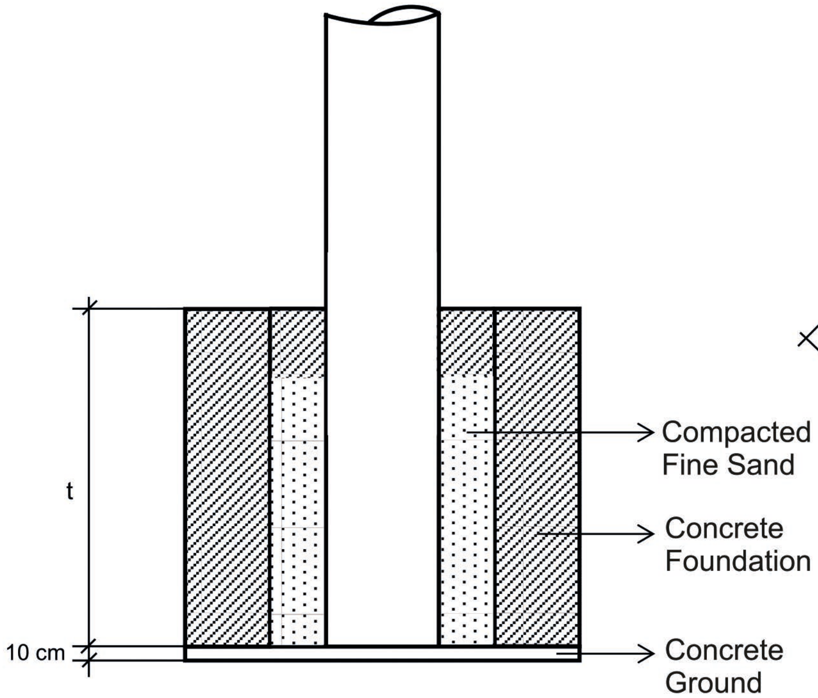
HEIGH / TYPE	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	HEIGH / TYPE
5	16	17	17	18	19	19	20	21	21	22	22						**5**
6	17	18	19	20	21	21	22	22	23	24	24	25	26				**6**
7	19	20	21	21	22	21	23	24	25	25	26	26	27	28			**7**
8	20	21	22	22	23	23	25	26	26	27	28	28	29	29	29	30	**8**
9	21	22	23	24	25	25	26	27	28	29	29	29	30	30	30	31	**9**
10	22	23	24	25	26	27	28	28	29	29	30	30	31	31	31	32	**10**
11	23	24	25	26	27	28	29	29	30	30	31	31	32	32	32	33	**11**
12	24	25	26	27	28	29	29	30	30	31	32	32	33	33	33	34	**12**
13	25	26	27	28	29	30	30	31	31	32	32	33	33	34	34	35	**13**
14	26	27	28	29	30	30	31	31	32	33	33	34	34	35	35	36	**14**
15	27	28	29	30	30	31	32	32	33	33	34	35	35	36	36	37	**15**
16	28	29	29	30	31	32	32	33	34	34	35	35	36	36	37	37	**16**
17	29	29	30	31	31	32	33	34	34	35	36	36	37	37	37	38	**17**
18	29	30	30	31	32	33	34	34	35	36	36	37	37	37	38	38	**18**
19	29	30	31	32	33	33	34	35	36	36	37	37	37	38	39	39	**19**
20	30	31	32	32	33	34	35	36	36	37	37	38	38	39	39	40	**20**
21	30	31	32	33	34	35	35	36	37	37	38	38	39	39	40	40	**21**
22	31	32	33	33	34	35	36	37	37	37	38	39	39	40	41	41	**22**
23	31	32	33	34	35	36	36	37	37	38	39	39	40	41	41	42	**23**
24	32	33	34	34	35	36	37	37	38	39	39	40	41	41	42	43	**24**
25	32	33	34	35	35	37	37	38	38	39	40	41	41	42			**25**
26	32	34	35	35	36	37	37	38	39	40	40	41	42	42			**26**
27	33	34	35	36	37	37	38	39	39	40	41	42	42				**27**
28	33	34	35	36	37	38	38	39	40	41	42	42					**28**
29	34	35	36	37	37	38	39	40	40	41	42						**29**
30	34	35	36	37	38	38	39	40	41	42	43						**30**
31	34	36	37	37	38	39	40	41	41	42							**31**
32	35	36	37	37	38	39	40	41	42	43							**32**
33	35	36	37	38	39	40	41	42	42								**33**
34	36	37	37	38	39	40	41	42	43								**34**
35	36	37	38	39	40	41	42	42									**35**

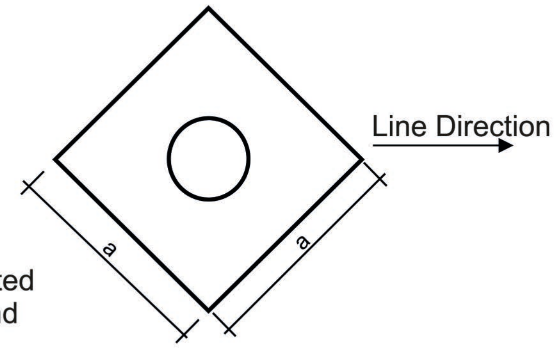
NOTE : The values given above are the Basic Type Numbers

COLLECTIVE CHARACTERISTICS OF FOUNDATION
(For Normal Ground)

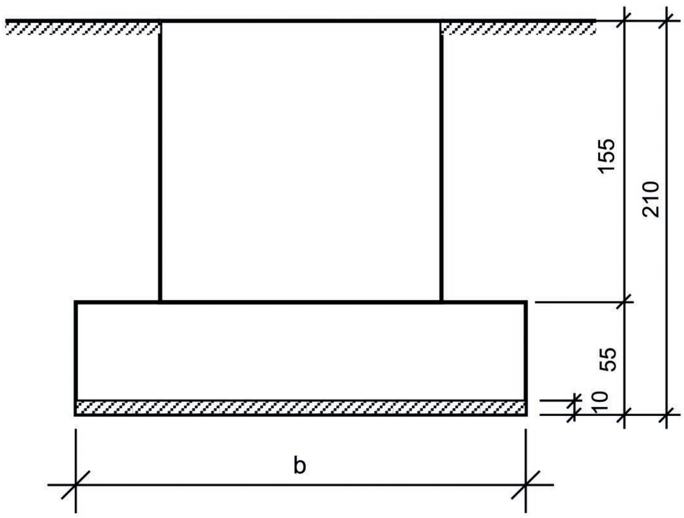
FOUNDATION TYPE NO	FOUNDATION TYPE	FOUNDATION DIMENSION and VOLUME					
		a (m)	a_1 (m)	b_1 (m)	b (m)	T (m)	V (m^3)
1	FULL BLOCK	0,6	0,6	0,6	0,6	2,1	0,756
2		0,7	0,7	0,7	0,7		1,029
3		0,8	0,8	0,8	0,8		1,344
4		0,9	0,9	0,9	0,9		1,701
5	STAGE (SMALL TYPE)	0,6	0,6	1,36	1,36		1,574
6		0,8			1,56		1,892
7		1,0			1,76		2,246
8		1,2			1,96		2,581
9		1,4			2,16		2,917
10		1,6			2,36		3,252
11		1,8			2,56		3,588
12		2,0			2,76		3,924
13	STAGE (MEDIUM TYPE)	1,6	1,0	1,76	2,36		4,763
14		1,9			2,66		5,519
15		2,2			2,96		6,274
16		2,5			3,26		7,030
17		2,8			3,56		7,785
18		3,1			3,86		8,540
19	STAGE (LARGE TYPE)	2,7	1,5	2,26	3,46		10,578
20		3,0			3,76		11,649
21		3,3			4,06		12,719
22		3,6			4,36		13,789
23		3,9			4,66		14,86
24		4,2			4,96		15,930
25		4,5			5,26		17,001
26		4,8			5,56		18,071
27		5,1			5,86		19,141
28		5,4			6,16		20,212
29		5,7			6,46		21,283
30		6,1			6,86		22,710
31		6,5			7,26		24,137
32		7,0			7,76		25,921
33		7,5			8,26		27,702
34		8,0			8,76		29,489
35		8,5			9,26		32,273
36		9,0			9,76		33,052
37		9,5			10,26		34,840
38		10,0			10,76		36,625
39		10,5			11,26		38,408
40		11,0			12,26		40,193
41		11,5			12,76		41,975
42		12,0			12,76		43,760
43		12,5			13,26		45,540

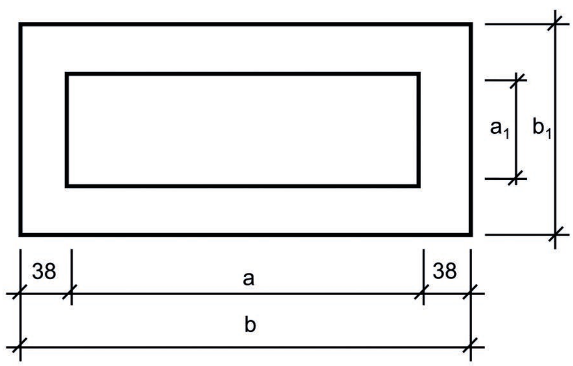
BLOCK FOUNDATION DETAILS





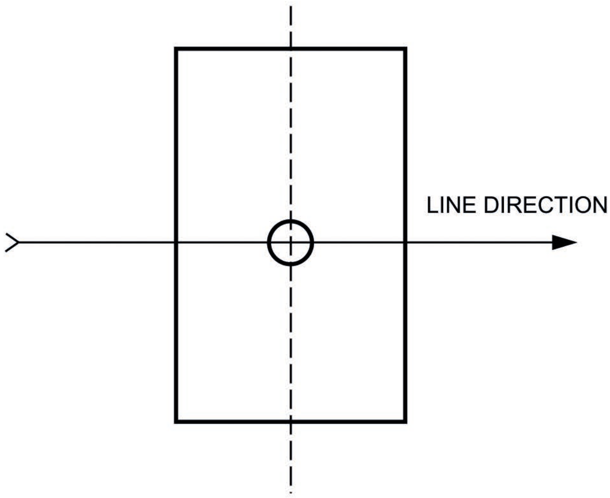
MAIN STAGE DETAILS



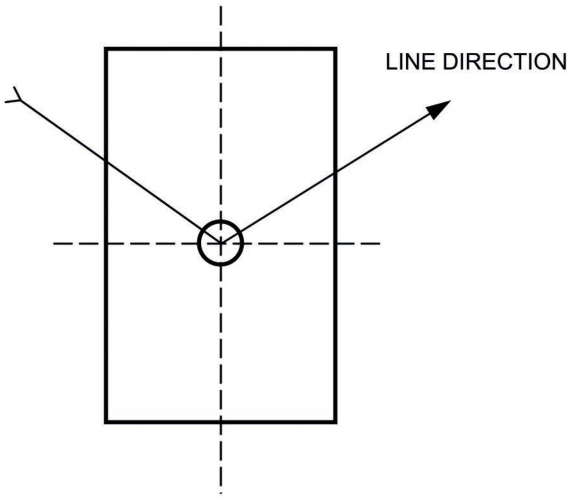


(Measurement are given in mm)

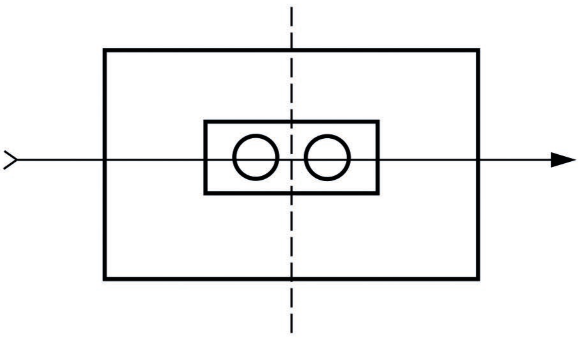
USES OF CONCRETE FOUNDATIONS



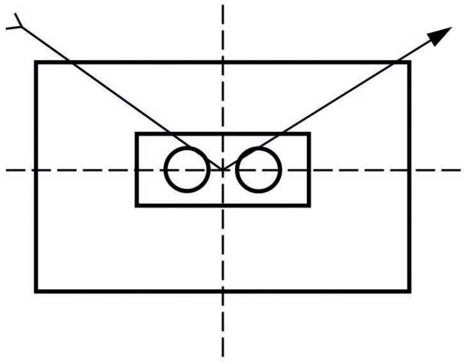
CARRIER



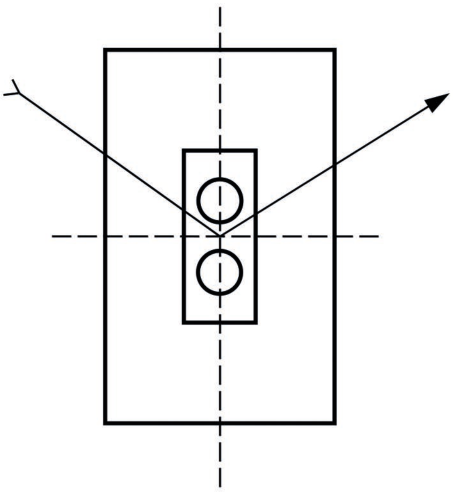
CORNER CARRIER



STOPPER - TERMINATIVE



IN CORNER STOPPER
(IN STOPPER POSITION)



IN CORNER STOPPER
(IN LODGES POSITION)

NOTE: Space on the basis of 65cm x 230cm for double pole will be released.

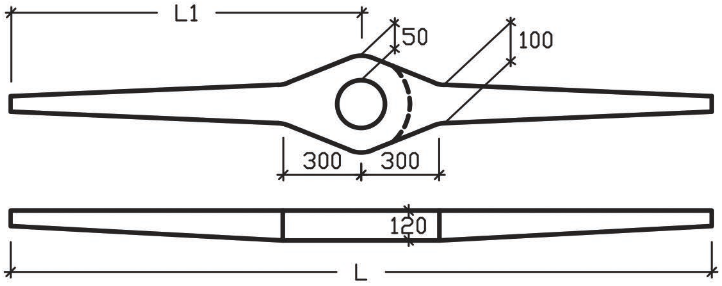
According to the TEDAŞ Concrete Pole Mount Specification gap between the base and mast will be allowed with concrete 300 doses the mast is erected.

CROSSARM PICTURES

a) STRUCTURAL TYPES

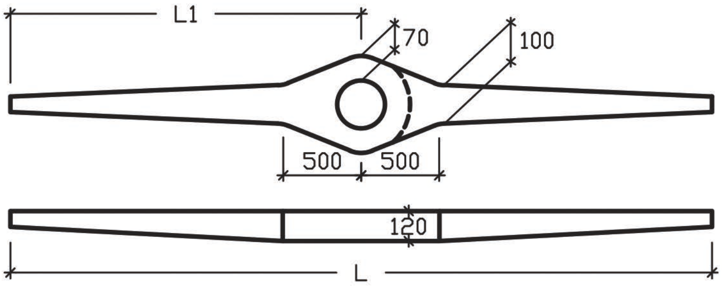
MAXIMUM TORQUE VERTICAL (kg x cm)

T / 27



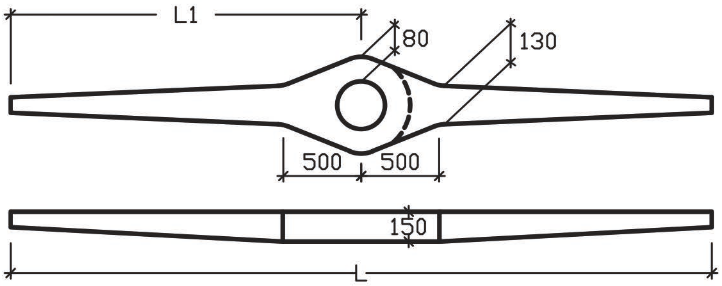
27000

T / 50



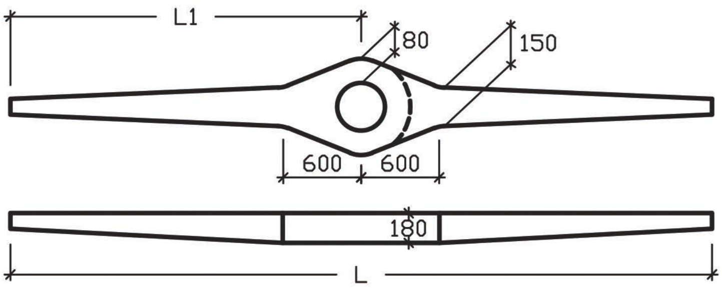
50000

T / 80



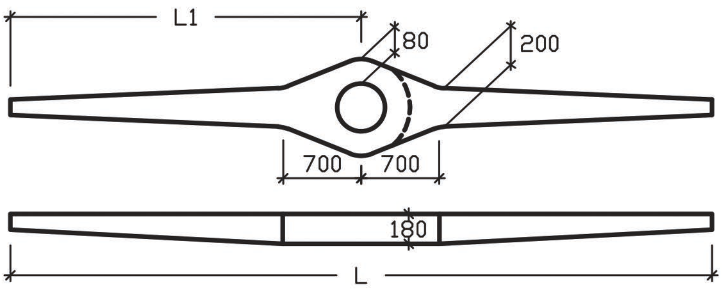
80000

T / 125



125000

T / 250



250000

L : Crossarm height to look at the lists

L_1 : Console height to look at the lists

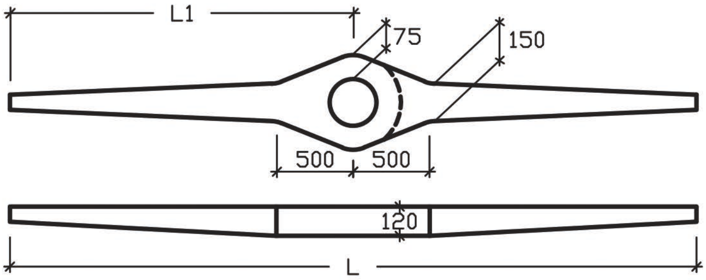
(Measurement are given in mm)

CROSSARM PICTURES

b) TERMINATIVE and STOPPER TYPES

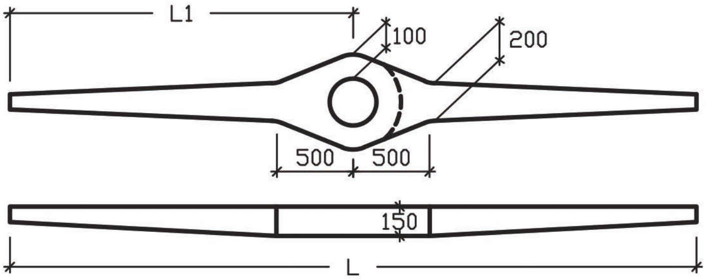
MAXIMUM TORQUE VERTICAL (kg x cm)

N / 70



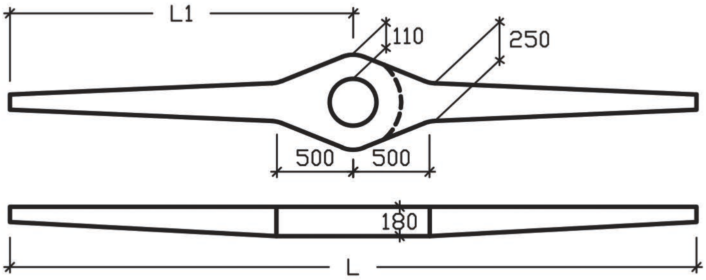
70000

N / 170



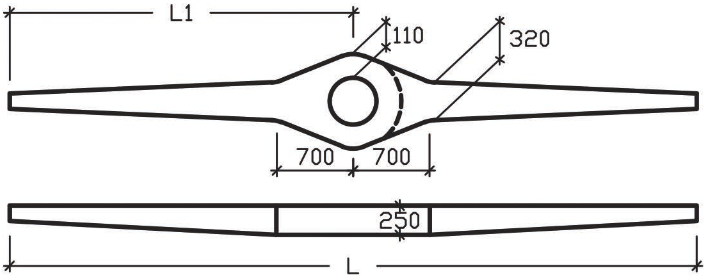
170000

N / 320



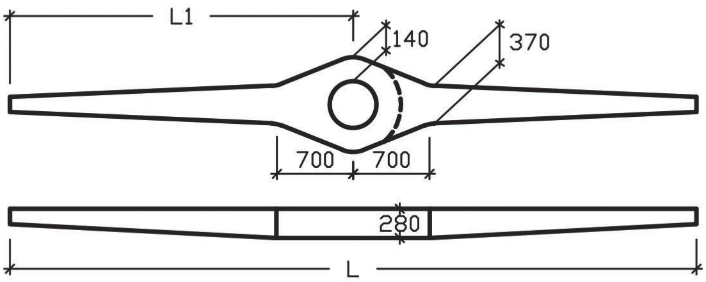
320000

N / 620



620000

N / 750



750000

L : Crossarm height to look at the lists
L_1 : Console height to look at the lists

(Measurement are given in mm)

LOW VOLTAGE CROSSARM
TWO CONDUCTOR PORTABLE CROSSARMS:

TYPE	TYPE	L (cm)	I (cm)	LIMIT of USE		FIGURE
				NAME OF CONDUCTOR	ANGLE	
CARRIER	t	60	52,5	PHLOX	122°	1
TERMINATIVE	n	60	52,5	PHLOX	122°	1
CARRIER	T	75	67,5	PHLOX	122°	1
CORNER	N	75	56,5	PHLOX	85°	2
CORNER - TERMINATIVE	N	90	68	PHLOX	85°	2
TIMING	2n	60	52,5	PHLOX	122°	3
TIMING	2N	90	68	PHLOX	85°	4

FOUR CONDUCTOR FIXED CROSSARMS:

TYPE	TYPE	L (cm)	LIMIT of USE		FIGURE
			NAME OF CONDUCTOR	ANGLE	
CARRIER	t4	160	PHLOX	122°	5
TERMINATIVE	n4	200	PHLOX	122°	6

TWO CONDUCTOR FIXED BRACKETS:

TYPE	TYPE	L (cm)	LIMIT of USE		FIGURE
			NAME OF CONDUCTOR	ANGLE	
CARRIER	Kt2	80	PHLOX	122°	5
TERMINATIVE	Kn2	100	PHLOX	122°	6

FIGURE - 1

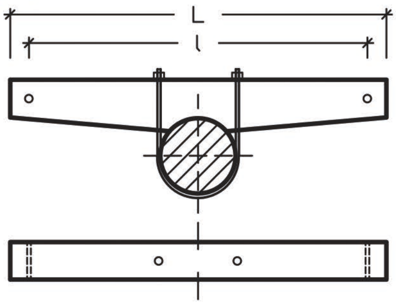


FIGURE - 3

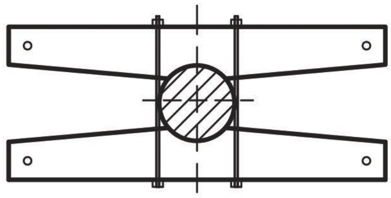


FIGURE - 2

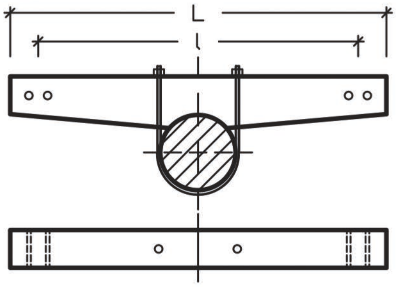


FIGURE - 4

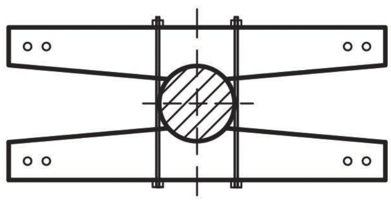


FIGURE - 5

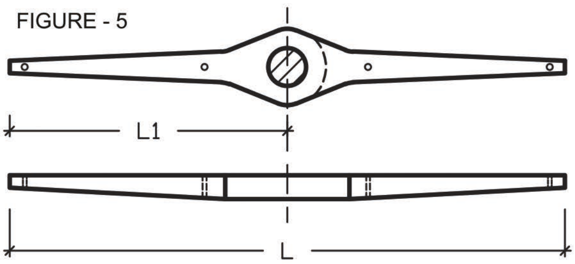
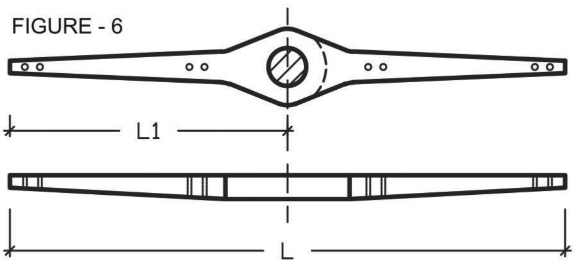


FIGURE - 6



(Measurement are given in mm)

HIGH VOLTAGE CROSSARMS WEIGHTS

CARRIERS					
MAX. TORQUE (kg / cm)	27000	50000	80000	125000	250000
TYPE / HEIGHT	T / 27	T / 50	T / 80	T / 125	T / 250
1,20	45				
1,40	50				
1,60	55				
1,80	60	95			
2,00	65	100	150	190	390
2,20	70	105	155	200	400
2,40	75	110	165	210	410
2,60	80	115	170	220	420
2,80	80	120	180	230	430
3,00	85	125	190	240	440
3,20	90	130	200	250	450
3,40	90	135	210	260	470
3,60		140	215	270	480
3,80		145	225	280	500
4,00		150	235	290	510
4,20			240	300	530
4,40			250	305	540
4,60			255	310	560
4,80			260	320	570
5,00			270	330	590
5,20			275	335	600
5,40			285	340	620
5,60				350	630
5,80				360	640
6,00				365	650
6,20				375	660
6,40					670
6,60					680
6,80					690
7,00					695
7,20					705
7,40					710
7,60					715
7,80					720
8,00					725

STOPPER and TERMINATIVE					
70000	170000	320000	620000	750000	MAX. TORQUE (kg / cm)
N / 70	N / 170	N / 320	N / 620	N / 750	TYPE / HEIGHT
95					1,20
100					1,40
110					1,60
120					1,80
125	190	310			2,00
130	200	320			2,20
140	210	340			2,40
145	220	350			2,60
150	230	360			2,80
160	240	380	680	900	3,00
165	250	390	700	920	3,20
170	260	400	730	940	3,40
175	270	420	750	970	3,60
180	280	430	770	990	3,80
185	290	440	790	1010	4,00
	295	460	820	1040	4,20
	300	470	840	1060	4,40
	305	480	860	1080	4,60
	310	490	880	1110	4,80
	315	500	910	1130	5,00
		520	930	1150	5,20
		530	950	1180	5,40
		540	970	1200	5,60
		550	1000	1220	5,80
		560	1020	1240	6,00
			1050	1240	6,20
			1070	1260	6,40
			1090	1280	6,60
			1110	1300	6,80
			1130	1320	7,00
				1340	7,20
				1360	7,40
				1375	7,60
				1390	7,80
				1405	8,00

HIGH VOLTAGE CONSOLE WEIGHTS

CARRIERS						STOPPER and TERMINATIVE					
MAX. TORQUE (kg / cm)	27000	50000	80000	125000	250000	70000	170000	320000	620000	750000	MIN. TORQUE (kg / cm)
TYPE / HEIGH	KT / 27	KT / 50	KT / 80	KT / 125	KT / 250	KN / 70	KN / 170	KN / 320	KN / 620	KN / 750	TYPE / HEIGH
1,00	40					75					1,00
1,20	40	60	90	125		80	125	210			1,20
1,40	45	65	100	135		90	135	220			1,40
1,60	50	70	110	145		95	145	230			1,60
1,80	50	75	120	155	275	100	155	240	430	550	1,80
2,00		80	130	160	290	105	165	260	450	580	2,00
2,20		90	140	170	300	110	170	270	470	600	2,20
2,40			150	180	320		175	280	490	620	2,40
2,60			160	190	330		180	290	510	650	2,60
2,80			170	200	340			300	530	670	2,80
3,00				210	360			310	550	690	3,00
3,20				220	370				570	710	3,20
3,40					380				580	740	3,40
3,60					390				600	760	3,60
3,80					395				610	780	3,80
4,00									620	800	4,00

NOTE : WHEN CALCULATING THE DOUBLE POLE, CROSSARM / CONSOLE WEIGHT 250kg SHOULD BE ADDED TO THE LIST DUE TO THE MUF VALUE.

LOW VOLTAGE CROSSARM and CONSOLE WEIGHTS

TYPE	WEIGHT (kg)
t - 60	6
T - 75	9
n - 60	7
N - 75	10
N - 90	12
2N - 60	14
2N - 75	20
2N - 90	24
PL - 250	700
PL - 400	900
PRJ. PLATFORM	340

TYPE	WEIGHT (kg)
Kt2 - 80	25
Kn2 - 100	50
ZKn2 - 110	55
t4 - 140	40
t4 - 160	45
n4 - 170	70
n4 - 200	75
Zn4 - 220	80
Kt4 - 160	65
ZKn4 - 185	140

LIGHTING POLES

1- Concrete lighting poles are produced 10mm/m inclined.

2- AD. 6 / 1 the length of the concrete poles is shown as 6m console number 1.

3- Lighting poles should be fed underground cable. Overhead lines fed lighting poles, also designed to be carried by the conductor.

4- Lighting poles are manufactured up to 25m on demand.

5- In linghting poles with side mounting the space between the two consoles can be made 90^0 to 180^0. The attachment of single, double, triple and quadriple consoles in overhead lighting poles are assembled in one pieces. The angle between consoles in double consoles is 180^0 , in triple consoles 120^0, and in quadriple consoles 90^0.

6- The main dimensions given in the list are for the normal ground.

7- Lighting(extures, fuses and conductors) are for the normal ground.

8- Most type and crossarm length is determined by the number of projectors to be used.

10 mm / m OBLIQUE LIGHTING POLES CHARACTERISTIC VALUES

POLE TYPE	CONSOLE NUMBER	TOP DIAMETER (mm)	POLE WEIGHT (kg)	CONCRETE BASE SIZE (cm)	BASE DEPTH h (cm)
PA - 4,5	-	95	115	50 x 50	100
PA - 5	-	95	135	50 x 50	100
PA - 6	-	105	195	60 x 60	100
AD - 6 / 1	1	135	275	60 x 60	100
AD - 6 / 2	2	135	275	60 x 60	100
AD - 7 / 1	1	135	340	60 x 60	150
AD - 7 / 2	2	135	340	60 x 60	150
AD - 7 / 3	3	165	445	60 x 60	150
AD - 8 / 1	1	135	405	70 x 70	150
AD - 8 / 2	2	135	405	70 x 70	150
AD - 8 / 3	3	165	530	70 x 70	150
AD - 9 / 1	1	135	485	80 x 80	150
AD - 9 / 2	2	135	485	80 x 80	150
AD - 9 / 3	3	165	620	80 x 80	150
AD - 9 / 4	4	195	770	80 x 80	150
AD - 9 / 5	5	225	940	80 x 80	150
AD - 10 / 1	1	135	565	80 x 80	150
AD - 10 / 2	2	135	565	80 x 80	150
AD - 10 / 3	3	165	720	80 x 80	150
AD - 10 / 4	4	195	890	80 x 80	150
AD - 10 / 5	5	225	1075	80 x 80	150
AD - 11 / 1	1	135	655	90 x 90	150
AD - 11 / 2	2	135	655	90 x 90	150
AD - 11 / 3	3	165	825	90 x 90	150
AD - 11 / 4	4	195	1020	90 x 90	150
AD - 11 / 5	5	225	1230	90 x 90	150
AD - 12 / 1	1	135	745	90 x 90	200
AD - 12 / 2	2	135	760	90 x 90	200
AD - 12 / 3	3	165	950	90 x 90	200
AD - 12 / 4	4	195	1160	90 x 90	200
AD - 12 / 5	5	225	1385	90 x 90	200

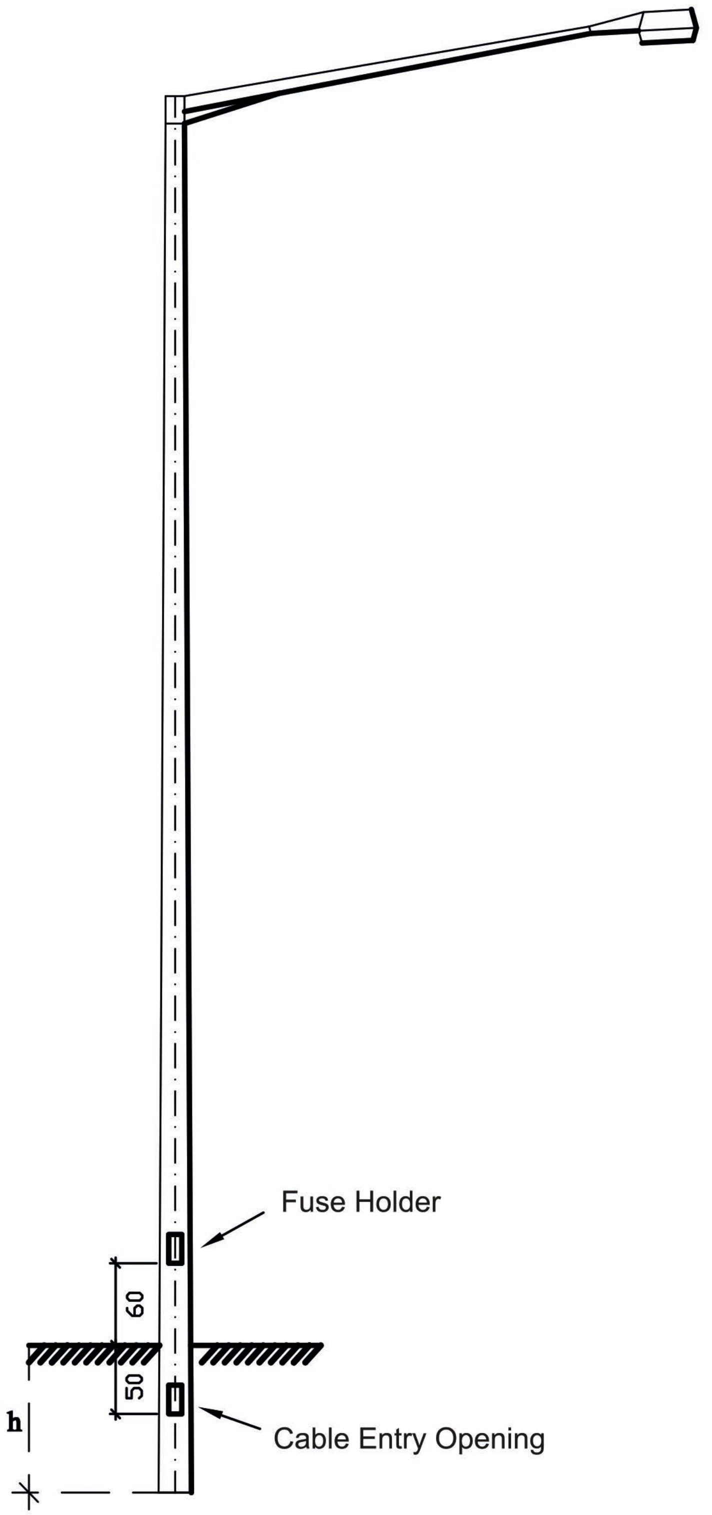
POLE TYPE	CONSOLE NUMBER	TOP DIAMETER (mm)	POLE WEIGHT (kg)	CONCRETE BASE SIZE (cm)	BASE DEPTH h (cm)
AD - 13 / 1	1	135	845	95 x 95	200
AD - 13 / 2	2	135	860	95 x 95	200
AD - 13 / 3	3	165	1070	95 x 95	200
AD - 13 / 4	4	195	1305	95 x 95	200
AD - 13 / 5	5	225	1550	95 x 95	200
AD - 14 / 1	1	165	1190	100 x 100	200
AD - 14 / 2	2	165	1190	100 x 100	200
AD - 14 / 3	3	165	1200	100 x 100	200
AD - 14 / 4	4	195	1455	100 x 100	200
AD - 14 / 5	5	225	1720	100 x 100	200
AD - 15 / 1	1	165	1320	105 x 105	200
AD - 15 / 2	2	165	1320	105 x 105	200
AD - 15 / 3	3	165	1335	105 x 105	200
AD - 15 / 4	4	195	1610	105 x 105	200
AD - 15 / 5	5	225	1900	105 x 105	200
AD - 16 / 1	1	165	1460	110 x 110	200
AD - 16 / 2	2	165	1460	110 x 110	200
AD - 16 / 3	3	165	1475	110 x 110	200
AD - 16 / 4	4	195	1775	110 x 110	200
AD - 16 / 5	5	225	2090	110 x 110	200
AD - 17 / 1	1	165	1630	115 x 115	200
AD - 17 / 2	2	165	1630	115 x 115	200
AD - 17 / 3	3	165	1650	115 x 115	200
AD - 17 / 4	4	195	1970	115 x 115	200
AD - 17 / 5	5	225	2305	115 x 115	200
AD - 18 / 1	1	165	1790	120 x 120	200
AD - 18 / 2	2	165	1805	120 x 120	200
AD - 18 / 3	3	165	1830	120 x 120	200
AD - 18 / 4	4	195	2155	120 x 120	200
AD - 18 / 5	5	225	2530	120 x 120	200

CONSOLE CHARACTERISTIC VALUES

SIDE FIXED		
CONSOLE TYPE	CONSOLE LENGTH (cm)	WEIGHT (kg)
AK - 125	125	35
AK - 150	150	40
AK - 210	210	55
AK - 225	225	60
AK - 250	250	80

TOP FIXED							
	CONSOLE TYPE	CONSOLE LENGTH (cm)	WEIGHT (kg)		CONSOLE TYPE	CONSOLE LENGTH (cm)	WEIGHT (kg)
SINGLE	AKN / T - 50	50	15	DOUBLE	AKN / Ç - 50	50	25
	AKN / T - 100	100	25		AKN / Ç - 100	100	45
	AKN / T - 150	150	40		AKN / Ç - 150	150	70
	AKN / T - 200	200	50		AKN / Ç - 200	200	90
	AKN / T - 250	250	70		AKN / Ç - 250	250	125
	AKN / T - 300	300	90		AKN / Ç - 300	300	160
TRIPLE	AKN / 3'lü - 100	100	65	QUARTED	AKN / 4'lü - 100	100	90
	AKN / 3'lü - 150	150	80				

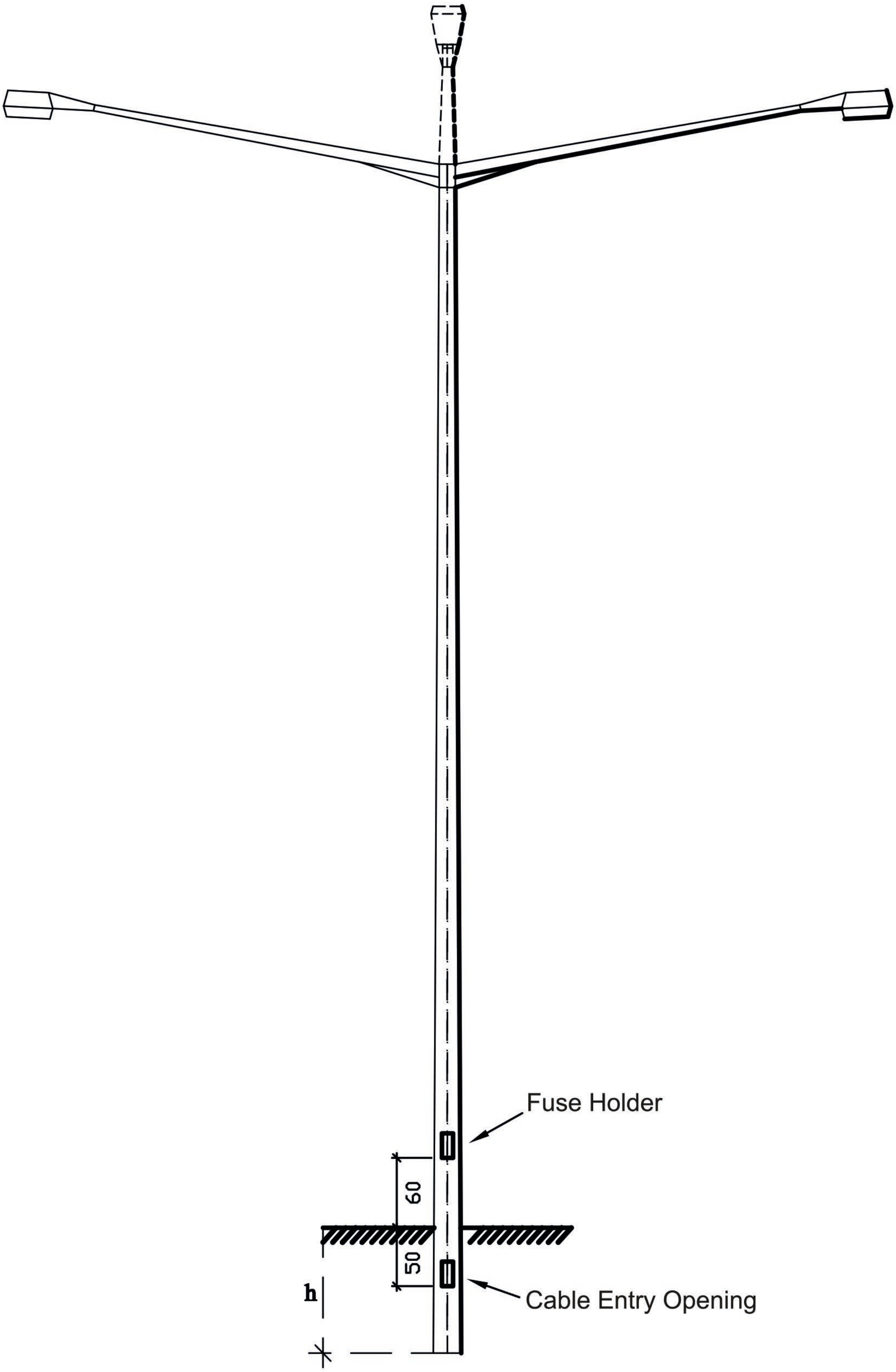
TOP MOUNTING(SINGLE CONSOLE)



AD - 6.......18

(Measurement are given in mm)

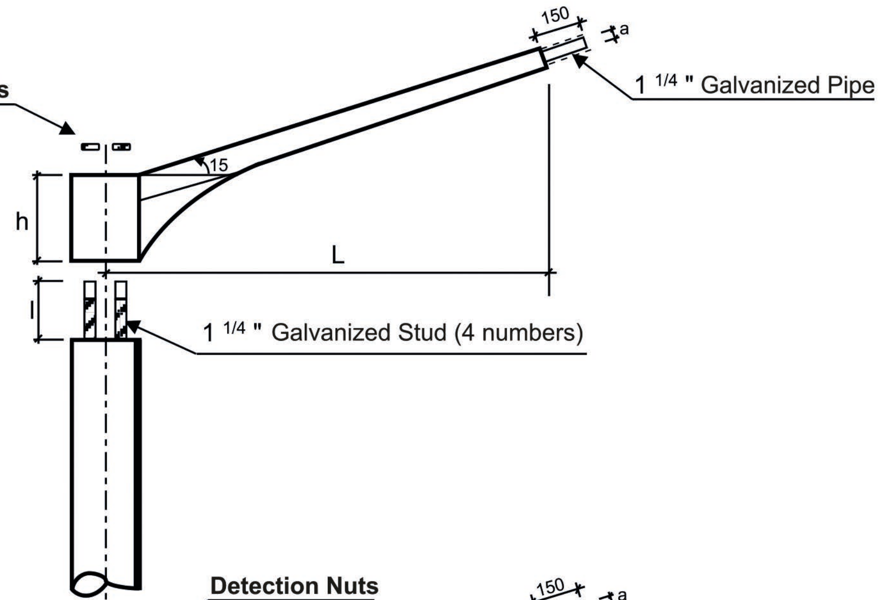
TOP MOUNTING(DOUBLE OR TRIPLE) CONSOLE



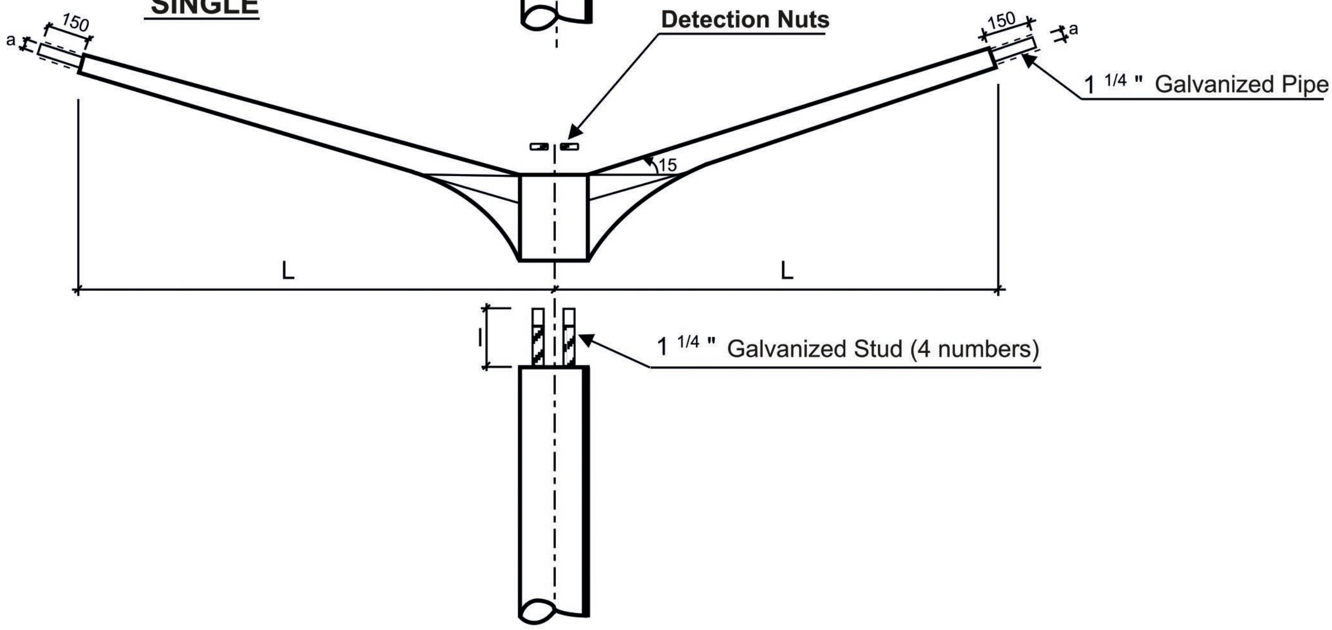
AD - 6.......18

(Measurement are given in mm)

TOP MOUNTING LIGHTING CONSOLES



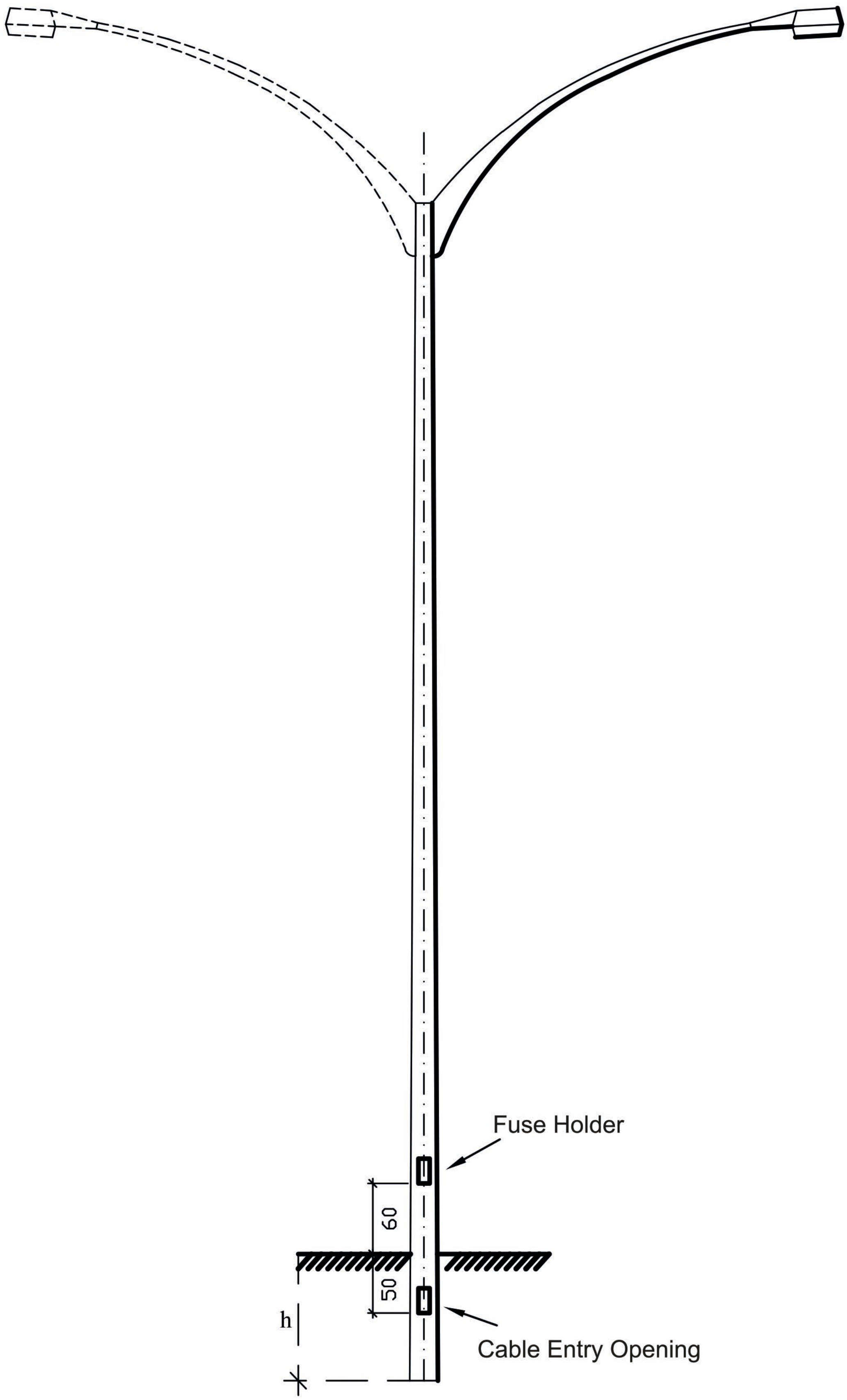
SINGLE



DOUBLE

TYPE	L (m)	h (mm)	a (mm)	l (mm)
AKN / T - 50	0,50	100	60	125
AKN / Ç - 50				
AKN / T - 100	1,00	150	60	175
AKN / Ç - 100				
AKN / T - 150	1,50	150	60	175
AKN / Ç - 150				
AKN / T - 200	2,00	200	60	225
AKN / Ç - 200				
AKN / T - 250	2,50	200	60	225
AKN / Ç - 250				
AKN / T - 300	3,00	265	70	290
AKN / Ç - 300				

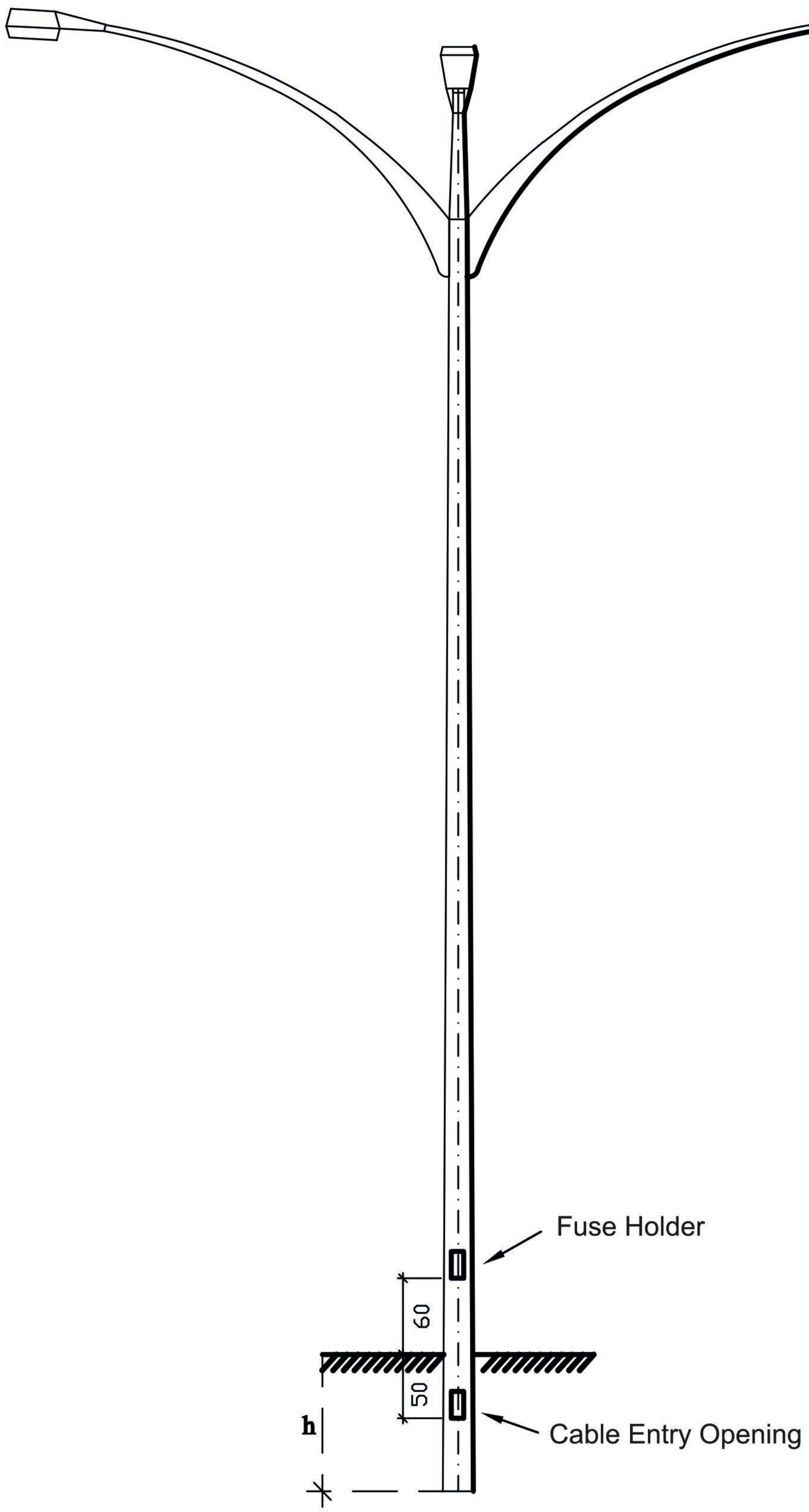
SIDE MOUNTING - SINGLE OR DUAL CONSOLE



AD - 6.......18

(Measurement are given in mm)

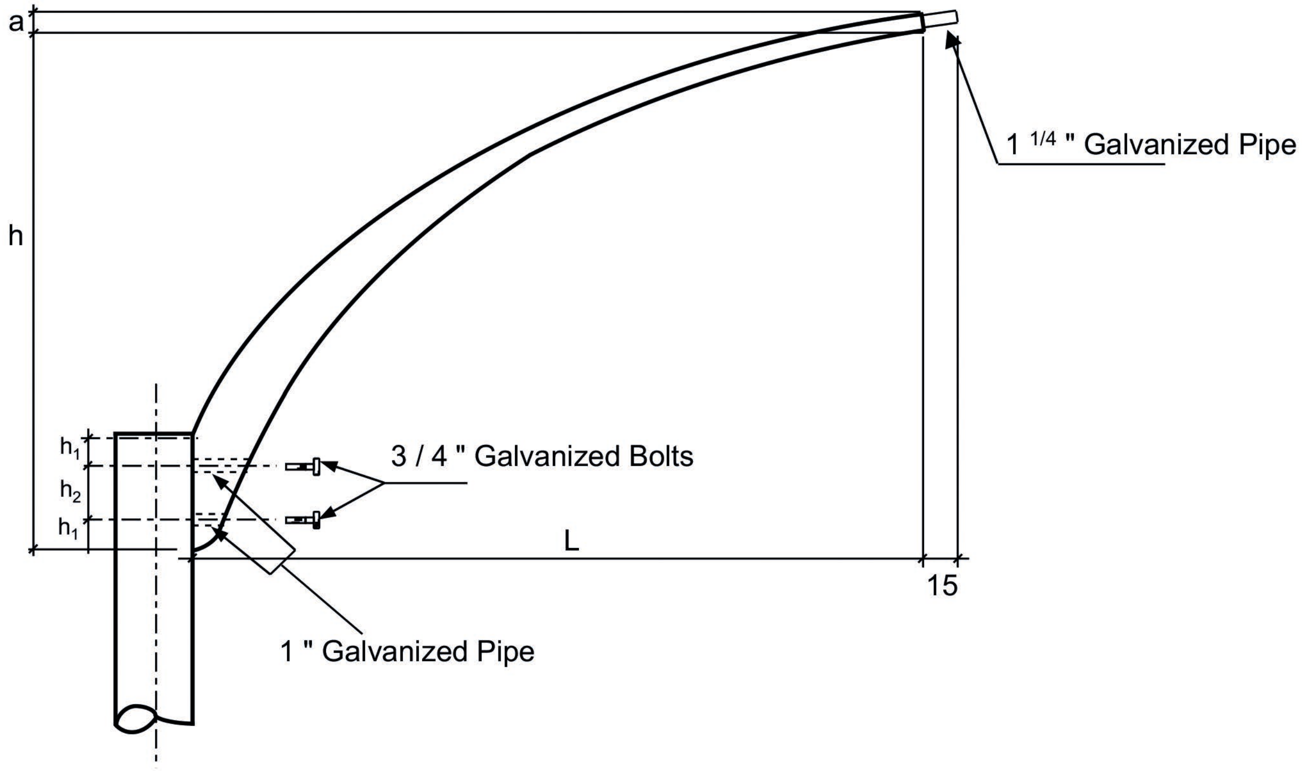
SIDE MOUNTING - TRIPLE CONSOLE



AD - 7.......18

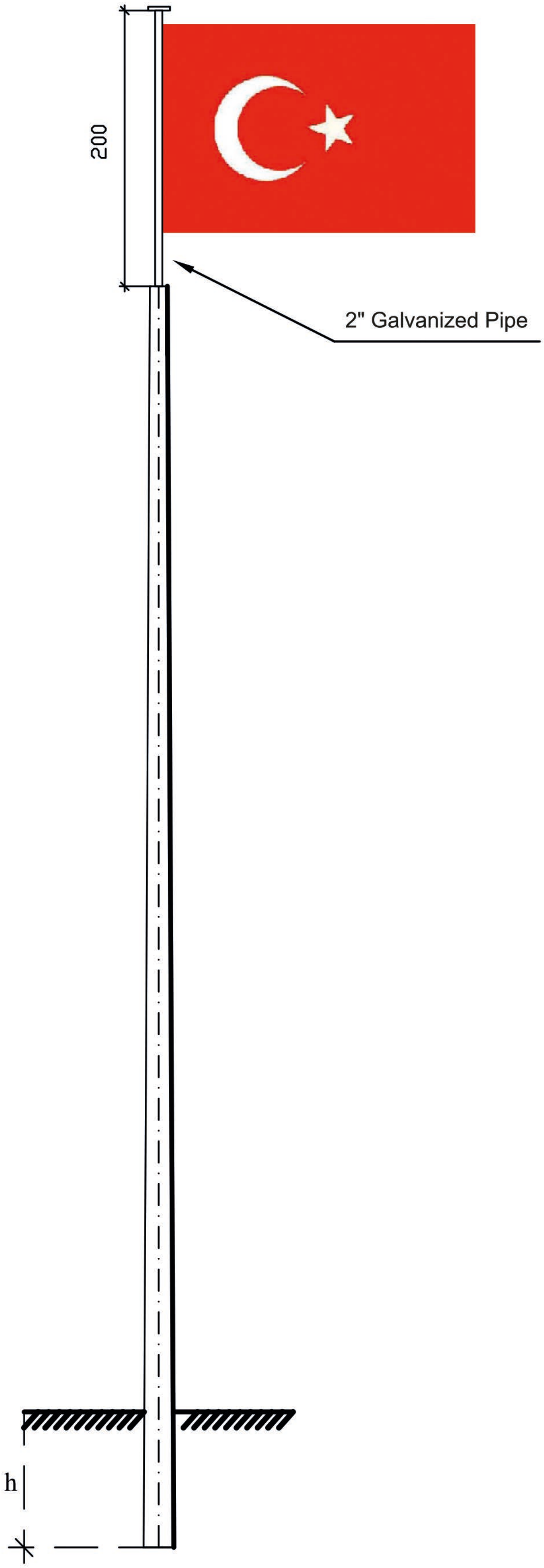
(Measurement are given in mm)

SIDE MOUNTING LIGHTING CONSOLE



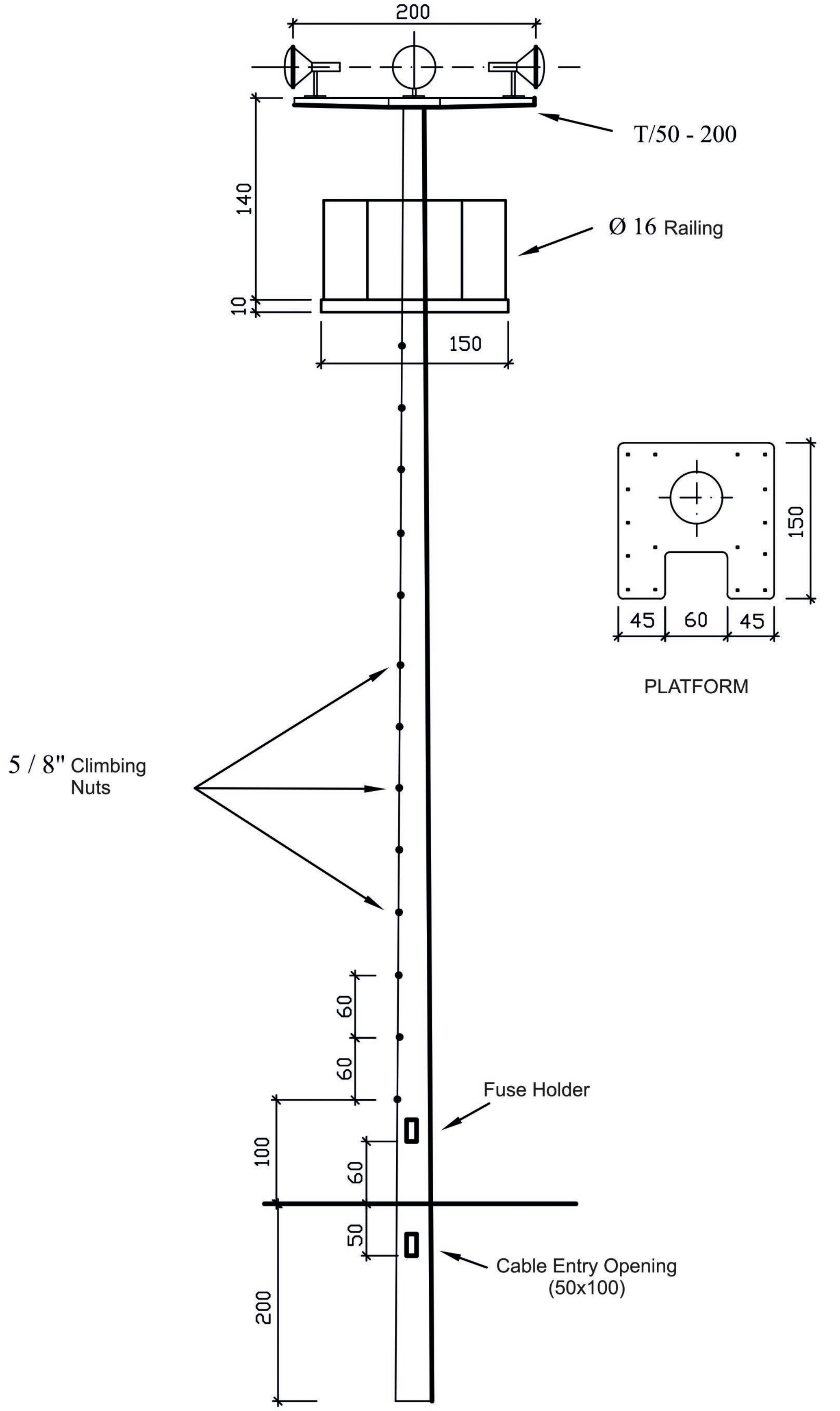
TYPE	L (m)	h (m)	h_1 (mm)	h_2 (mm)	a (mm)
AK - 125	1,25	1,00	80	170	60
AK - 150	1,50	1,25	80	170	60
AK - 210	2,10	1,40	80	170	60
AK - 225	2,25	1,50	80	170	60
AK - 250	2,50	1,70	80	170	70

FLAG POLE



(Measurement are given in mm)

PROJECTOR POLE



(Measurement are given in mm)

EXPLANATION ABOUT THE TRANSFORMER POLES

1- (TR) nickname is put directly in front of the transformer poles.

For instance; TR 13/10

2- The choice of transformer pole; poles have peak powers depending on their uses(Joint or E.N. LINE) . To select the pole type 300 kg up to 250 kV 500 kg up to 400 kVA is added to these values.

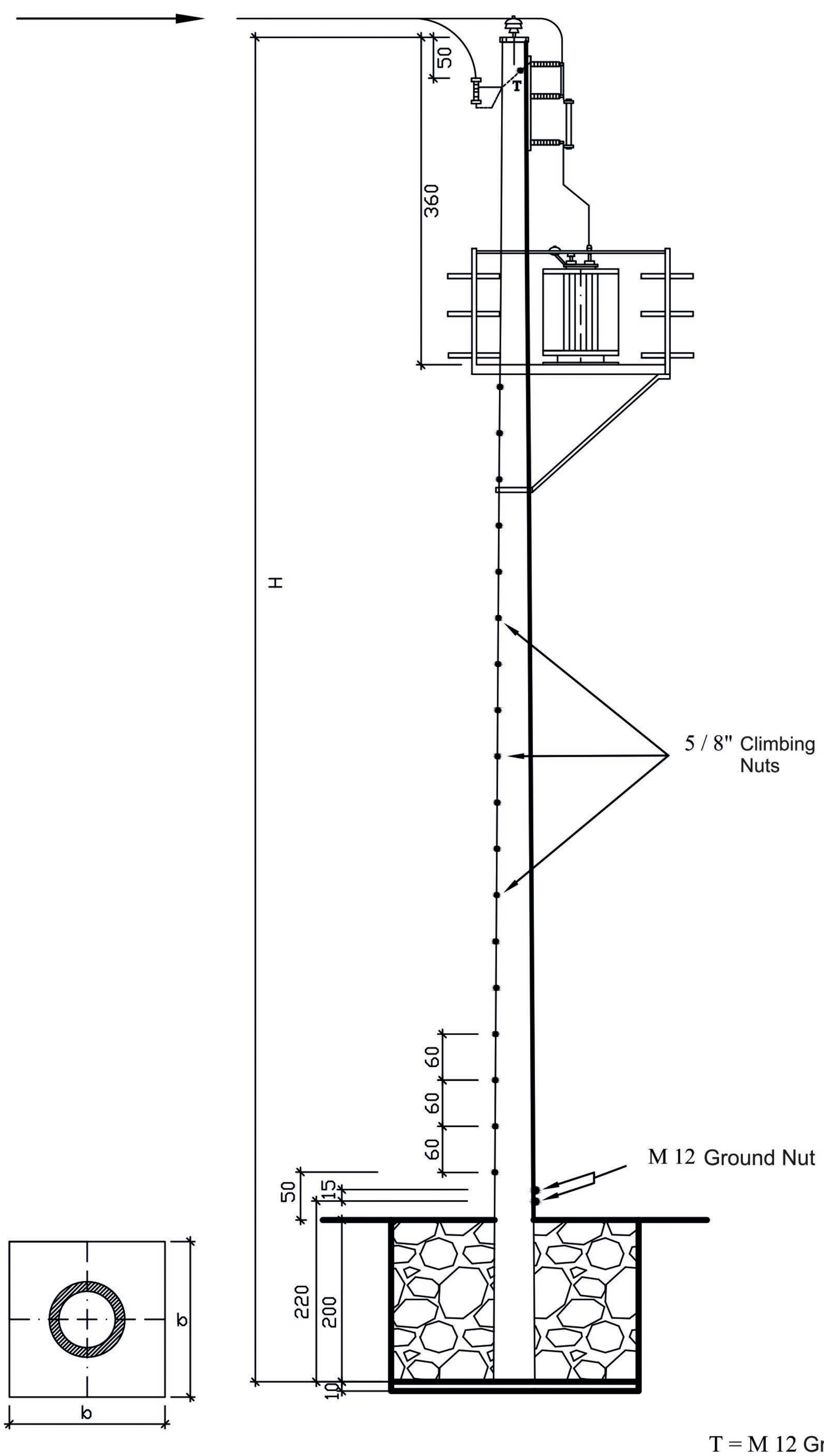
3- For low voltage lines, it is possible to make an output from four of the mast surfaces to four different directions.

4- Tranformer platforms are sized for carrying transformers up to PL-250 250 kV; and from PL-400 250 kVA to 400 kVA.

5- The transformer pole length normally used in the city's network is 13 m. The smallest type is 13/10.

6- The bases of transformer poles are determined by looking at the basic selection chart depending on the size and type of poles.

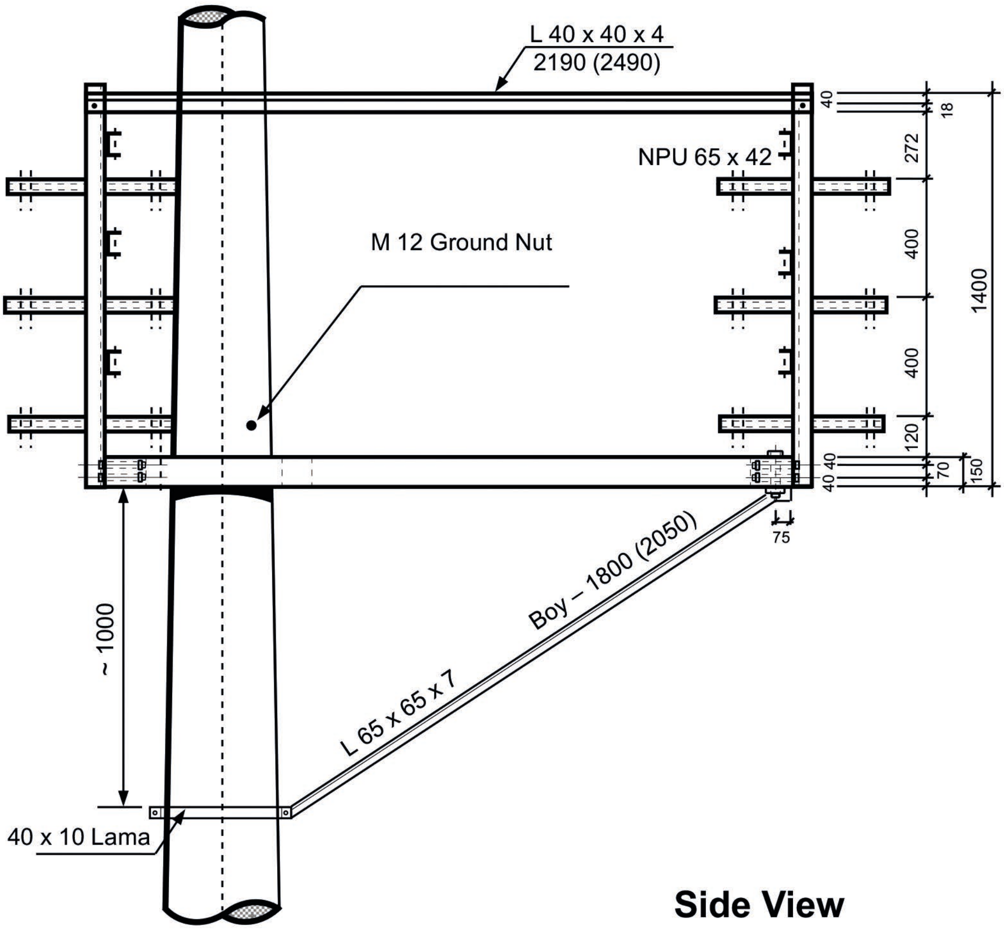
TRANSFORMER POLES



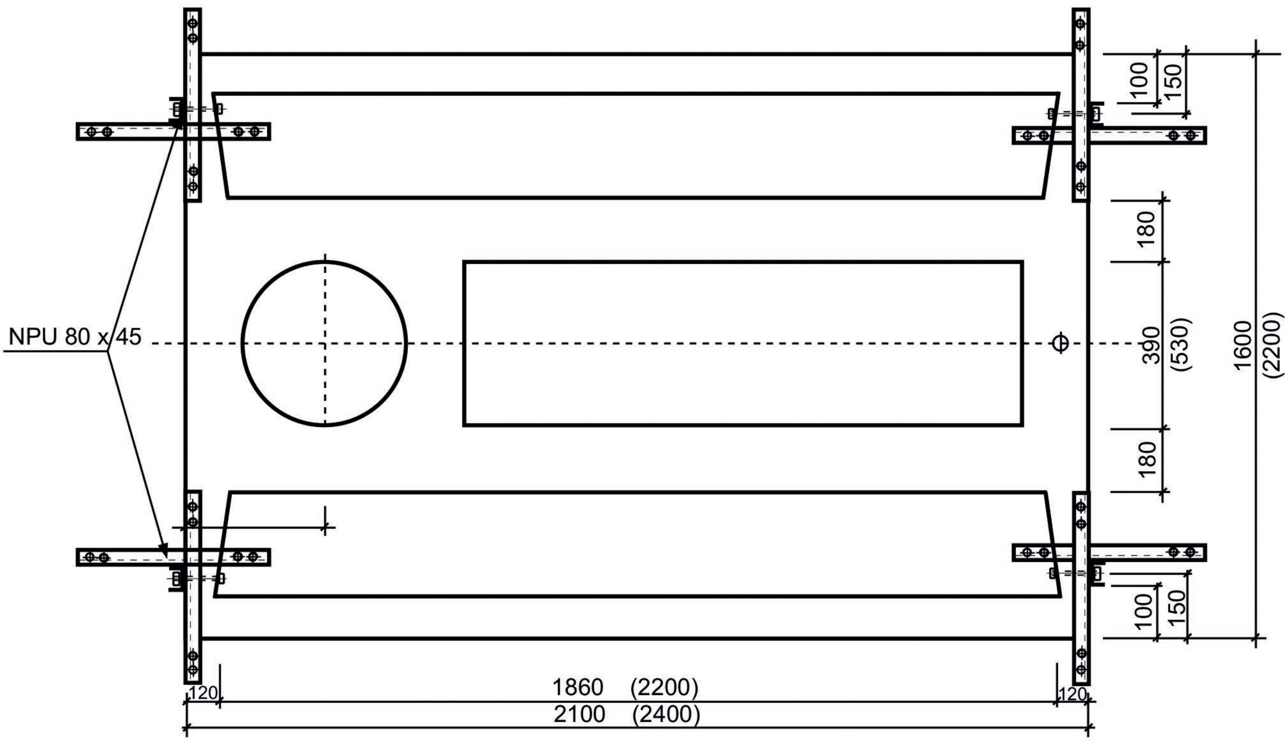
T = M 12 Ground Nut

(Measurements are given in mm)

TRANSFORMER PLATFORM



Side View

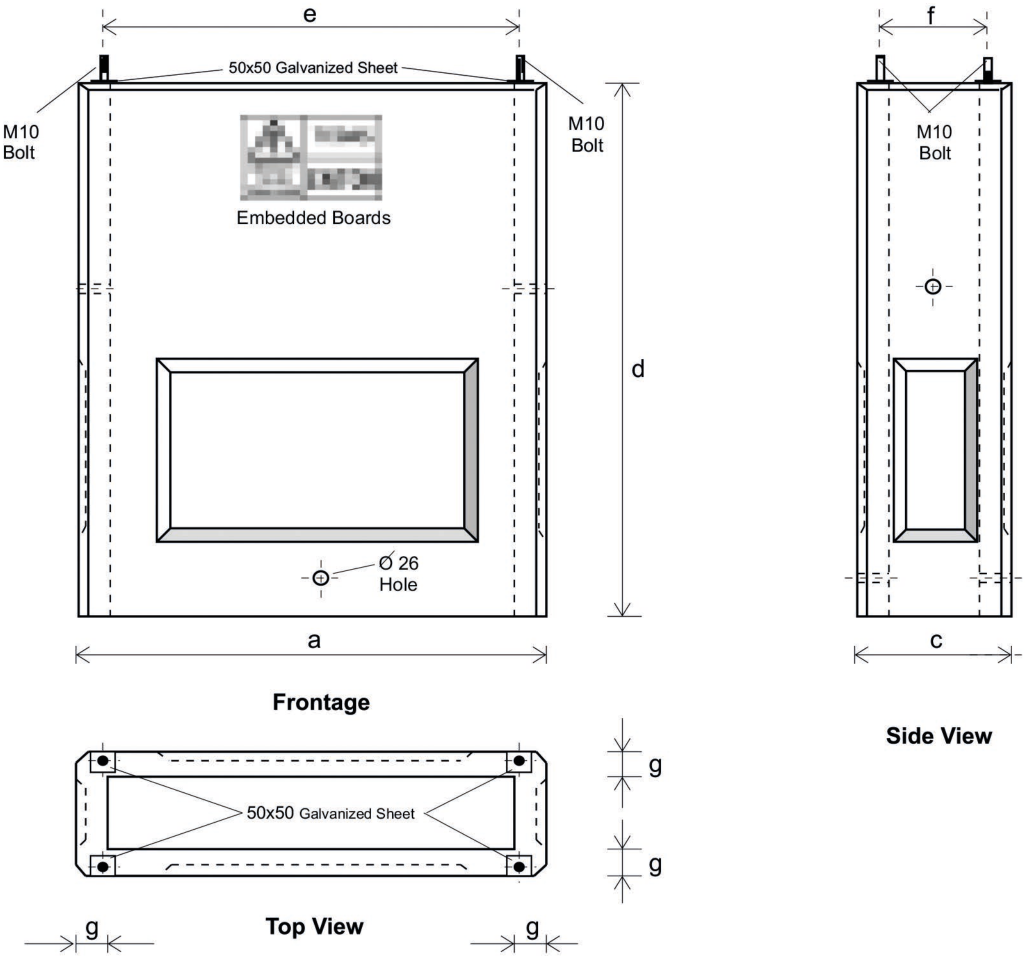


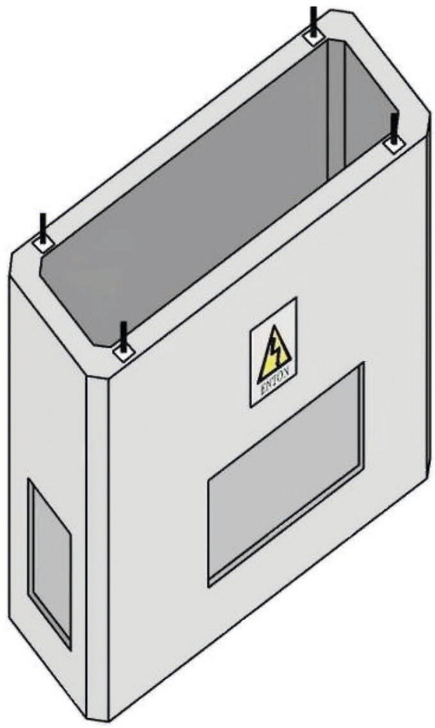
Top View

(…) mesures, PL – 400 type belongs to the platform.

(Measurements are given in mm)

CONCRETE PANEL BASE





S I Z E (mm)						
	a	c	d	e	f	g
Type 1	550	350	1000	350	300	100
Type 2	900	400	1000	700	350	100
Type 3	750	350	1000	550	300	100

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