



DECORATIVE

# WOODEN POLES

SPECIFICATIONS





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PEDESTRIAN  
ENVIRONMENT

**PEDESTRIAN**

**3-6m**

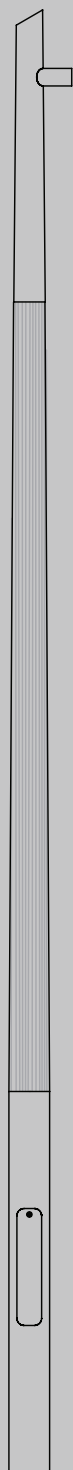
PALLAS 4M



# ROUND CONICAL



PALLAS



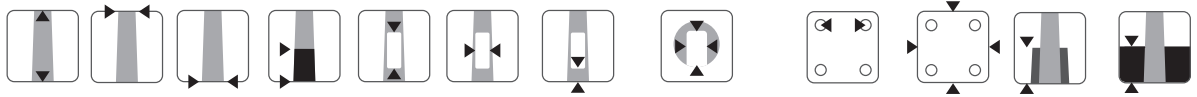
SEKA



LEMPEÄ



ONTELO

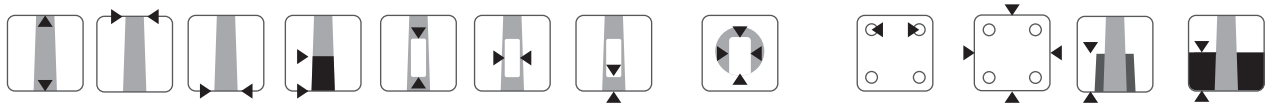


Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)	
Height (m)	Top ø	Base ø	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>PALLAS</b>											
3	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
4	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
5	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
6	90	140	1300	400	85	500	w80*d90	200x200	270	500	1000
<b>LEMPEÄ</b>											
4	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
5	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
6	90	140	1300	400	85	500	w80*d90	200x200	270	500	1000
<b>SEKA</b>											
4	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
5	90	140	1300	400	85	500	w80*d90	200x200	270	500	800
6	90	140	1300	400	85	500	w80*d90	200x200	270	500	1000
<b>ONTELO</b>											
4	120	168	1400	400	85	500	w80*d120	200x200	270	600	800
5	120	168	1400	400	85	500	w80*d120	200x200	270	600	800
6	120	168	1400	400	85	500	w80*d120	200x200	270	600	1000

### CAPACITY OF THE POLES

Height (m)	22 cat 1	22 cat 2	22 cat 3	24 cat 1	24 cat 2	24 cat 3	26 cat 1	26 cat 2	26 cat 3	28 cat 1	28 cat 2	28 cat 3	32 cat 1	32 cat 2	32 cat 3
<b>PALLAS</b>															
3	2,68	3,21	3,54	2,24	2,68	2,96	1,91	2,28	2,51	1,64	1,96	2,16	1,25	1,49	1,65
4	1,51	1,90	2,15	1,25	1,58	1,78	1,06	1,33	1,51	0,90	1,14	1,28	0,68	0,85	0,97
4	0,93	1,17	1,42	0,77	0,96	1,17	0,64	0,80	0,97	0,53	0,68	0,83	0,40	0,50	0,61
6	0,58	0,74	0,97	0,46	0,59	0,78	0,38	0,48	0,64	0,32	0,40	0,53	0,23	0,29	0,38
<b>LEMPEÄ</b>															
4	1,30	1,64	1,86	1,09	1,36	1,55	0,91	1,15	1,30	0,79	0,98	1,12	0,59	0,74	0,83
5	0,80	1,00	1,23	0,65	0,82	1,00	0,54	0,68	0,83	0,45	0,57	0,71	0,34	0,42	0,51
6	0,48	0,62	0,82	0,39	0,49	0,65	0,31	0,40	0,53	0,25	0,33	0,43	0,18	0,23	0,31
<b>SEKA</b>															
4	1,31	1,65	1,86	1,10	1,37	1,56	0,93	1,17	1,31	0,80	1,00	1,13	0,61	0,76	0,85
5	0,92	1,16	1,42	0,76	0,95	1,17	0,63	0,80	0,97	0,53	0,67	0,83	0,40	0,50	0,61
6	0,57	0,73	0,96	0,46	0,59	0,77	0,38	0,48	0,63	0,32	0,40	0,52	0,23	0,29	0,38
<b>ONTELO</b>															
4	0,55	0,71	0,82	0,44	0,57	0,66	0,38	0,47	0,54	0,32	0,41	0,46	0,23	0,29	0,34
5	0,48	0,61	0,74	0,41	0,50	0,61	0,35	0,42	0,51	0,30	0,37	0,44	0,22	0,28	0,34
6	0,35	0,42	0,55	0,29	0,36	0,45	0,24	0,30	0,39	0,21	0,25	0,33	0,15	0,19	0,24

Reference load used for calculation 20 kg.



Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)	
Height (m)	Top ø	Base ø	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>BALLAD</b>											
3	90	90	1100	300	65	500	w60*d40	200x200	270	500	800
3,5	90	90	1100	300	65	500	w60*d40	200x200	270	500	800
4	90	90	1100	300	65	500	w60*d40	200x200	270	500	800
<b>INARI</b>											
3	140	140	1300	400	85	500	w80*d90	200x200	270	500	800
4	140	140	1300	400	85	500	w80*d90	200x200	270	500	800
5	140	140	1300	400	85	500	w80*d90	200x200	270	500	800
6	140	140	1300	400	85	500	w80*d90	200x200	270	500	1000
<b>KAISLA</b>											
4	140	140	1300	400	85	500	w80*d90	200x200	270	500	800
5	140	140	1300	400	85	500	w80*d90	200x200	270	500	800
6	140	140	1300	400	85	500	w80*d90	200x200	270	500	1000



Main dimensions (mm)					Space for coupling (mm)				Flange (mm)		Embedding (mm)		
Height (m)	Top ø	Base ø	Wood height	Base height	Top height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>RYTMI</b>													
4 P01	140	140	500	3000	500	400	85	500	w80*d90	200x200	270	500	800
4 P02	140	140	500	2000	1500	400	85	500	w80*d90	200x200	270	500	800
5 P03	140	140	500	3000	1500	400	85	500	w80*d90	200x200	270	500	800
6 P04	140	140	500	4000	1500	400	85	500	w80*d90	200x200	270	500	1000
4 F01	140	140	1500	1400	1100	400	85	500	w80*d90	200x200	270	500	800
5 F02	140	140	1500	1400	2100	400	85	500	w80*d90	200x200	270	500	800
5 F03	140	140	1500	2000	1500	400	85	500	w80*d90	200x200	270	500	800
6 F04	140	140	1500	1400	3100	400	85	500	w80*d90	200x200	270	500	1000
6 F05	140	140	1500	3000	1500	400	85	500	w80*d90	200x200	270	500	1000

P = Piano, F = Forte



# ROUND



BALLAD



INARI



RYTMII



KAISLA

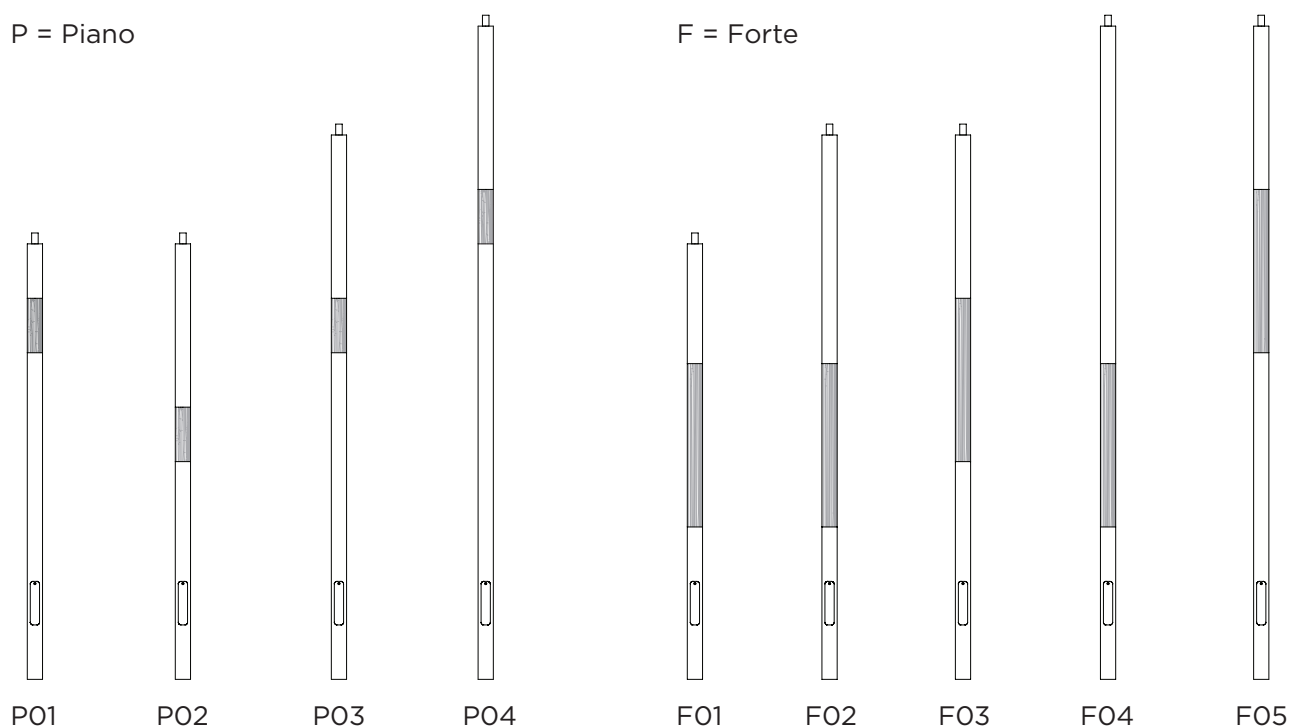
## CAPACITY OF THE POLES

Height (m)	22 cat 1	22 cat 2	22 cat 3	24 cat 1	24 cat 2	24 cat 3	26 cat 1	26 cat 2	26 cat 3	28 cat 1	28 cat 2	28 cat 3	32 cat 1	32 cat 2	32 cat 3
<b>BALLAD</b>															
3	0,44	0,54	0,61	0,37	0,44	0,49	0,30	0,37	0,41	0,25	0,31	0,34	0,18	0,22	0,25
3.5	0,29	0,38	0,42	0,23	0,30	0,34	0,18	0,24	0,27	0,15	0,19	0,22	0,10	0,13	0,15
4	0,18	0,25	0,30	0,13	0,18	0,22	0,09	0,14	0,17	0,07	0,10	0,13	n/a	0,06	0,07
<b>INARI</b>															
3	2,71	3,24	3,57	2,27	2,71	2,99	1,93	2,30	2,54	1,66	1,99	2,18	1,26	1,52	1,67
4	1,53	1,92	2,17	1,28	1,60	1,81	1,09	1,35	1,53	0,93	1,17	1,31	0,71	0,89	1,00
5	0,95	1,19	1,44	0,79	0,98	1,19	0,67	0,83	1,00	0,57	0,71	0,85	0,41	0,54	0,65
6	0,60	0,75	0,97	0,49	0,61	0,79	0,41	0,50	0,66	0,36	0,43	0,55	0,24	0,33	0,41
<b>KAISLA</b>															
4	1,53	1,92	2,17	1,28	1,60	1,81	1,09	1,35	1,53	0,93	1,17	1,31	0,71	0,89	1,00
5	0,95	1,19	1,44	0,79	0,98	1,19	0,67	0,83	1,00	0,57	0,71	0,85	0,41	0,54	0,65
6	0,60	0,75	0,97	0,49	0,61	0,79	0,41	0,50	0,66	0,36	0,43	0,55	0,24	0,33	0,41
<b>RYTMI</b>															
4 P01	2,14	2,68	3,04	1,79	2,24	2,53	1,52	1,90	2,14	1,31	1,64	1,84	0,99	1,25	1,41
4 P02	2,10	2,63	2,97	1,76	2,20	2,49	1,50	1,87	2,11	1,29	1,61	1,81	0,98	1,23	1,38
5 P03	1,45	1,80	2,18	1,21	1,50	1,81	1,03	1,26	1,53	0,88	1,08	1,30	0,66	0,83	1,00
6 P04	1,02	1,25	1,62	0,84	1,03	1,33	0,71	0,87	1,12	0,61	0,75	0,95	0,43	0,56	0,72
4 F01	1,59	1,99	2,25	1,32	1,66	1,88	1,13	1,40	1,59	0,97	1,21	1,36	0,73	0,92	1,04
5 F02	0,97	1,22	1,47	0,81	1,00	1,22	0,69	0,84	1,03	0,59	0,73	0,87	0,43	0,55	0,67
5 F03	1,24	1,54	1,86	1,03	1,27	1,55	0,87	1,08	1,30	0,76	0,92	1,12	0,56	0,71	0,85
6 F04	0,61	0,77	0,99	0,50	0,62	0,81	0,42	0,52	0,67	0,37	0,44	0,57	0,25	0,34	0,43
6 F05	1,00	1,25	1,60	0,83	1,02	1,31	0,70	0,85	1,10	0,61	0,74	0,93	0,43	0,56	0,71

Reference load used for calculation 20 kg.

P = Piano

F = Forte





INARI 3M

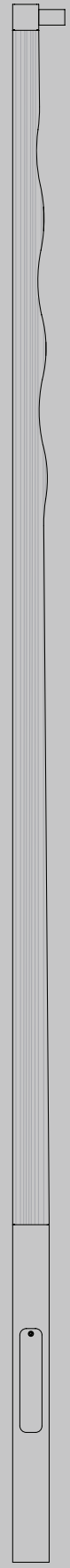
SQUARE  
CONICAL



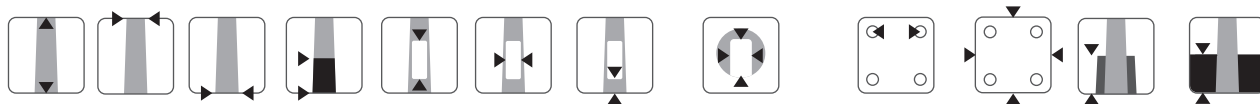
KOLI



ONTELO  
SQUARE CONICAL



LAINE

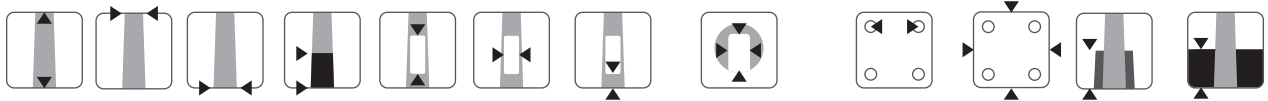


Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)		
Height (m)	Top □	Base □	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground	
<b>KOLI</b>												
3	100	140	1300	400	85	500	w80*d105	200x200	270	according to foundation to be used	800	
4	100	140	1300	400	85	500	w80*d105	200x200	270		800	
5	100	140	1300	400	85	500	w80*d105	200x200	270		800	
6	100	140	1300	400	85	500	w80*d105	200x200	270		1000	
<b>LAINÉ</b>												
4	100	140	1300	400	85	500	w80*d105	200x200	270		800	
5	100	140	1300	400	85	500	w80*d105	200x200	270	800		
6	100	140	1300	400	85	500	w80*d105	200x200	270	1000		
<b>ONTELO SQUARE CONICAL</b>												
4	120	160	1400	400	85	500	w80*d125	200x200	270	800		
5	120	160	1400	400	85	500	w80*d125	200x200	270	800		
6	120	160	1400	400	85	500	w80*d125	200x200	270	1000		

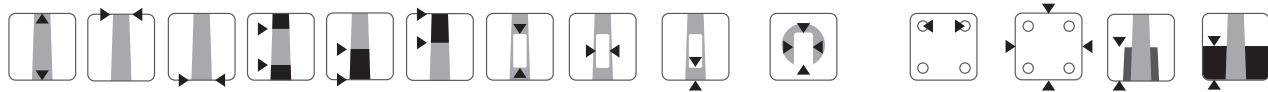
### CAPACITY OF THE POLES

Height (m)	22 cat 1	22 cat 2	22 cat 3	24 cat 1	24 cat 2	24 cat 3	26 cat 1	26 cat 2	26 cat 3	28 cat 1	28 cat 2	28 cat 3	32 cat 1	32 cat 2	32 cat 3
<b>KOLI</b>															
3	3,95	4,73	5,25	3,27	3,92	4,36	2,74	3,29	3,66	2,32	2,79	3,11	1,69	2,05	2,29
4	2,53	3,22	3,68	2,07	2,63	3,01	1,69	2,17	2,50	1,40	1,81	2,08	0,98	1,27	1,49
5	1,64	2,08	2,55	1,31	1,69	2,08	1,05	1,38	1,71	0,83	1,11	1,40	0,51	0,73	0,94
6	1,00	1,31	1,74	0,77	1,03	1,38	0,58	0,81	1,10	0,42	0,63	0,87	0,18	0,34	0,52
<b>LAINÉ</b>															
4	2,53	3,22	3,68	2,07	2,63	3,01	1,69	2,17	2,50	1,40	1,81	2,08	0,98	1,27	1,49
5	1,64	2,08	2,55	1,31	1,69	2,08	1,05	1,38	1,71	0,83	1,11	1,40	0,51	0,73	0,94
6	1,00	1,31	1,74	0,77	1,03	1,38	0,58	0,81	1,10	0,42	0,63	0,87	0,18	0,34	0,52
<b>ONTELO SQUARE CONICAL</b>															
4	0,67	0,85	0,97	0,54	0,70	0,80	0,43	0,58	0,67	0,32	0,47	0,56	0,09	0,21	0,31
5	0,39	0,49	0,61	0,31	0,40	0,49	0,23	0,33	0,41	0,13	0,26	0,34	n/a	0,05	0,17
6	0,25	0,32	0,43	0,17	0,25	0,35	0,06	0,19	0,28	n/a	0,10	0,22	n/a	n/a	n/a

Reference load used for calculation 20 kg.



Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)	
Height (m)	Top □	Base □	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>RUKA &amp; RUKA PROFILES SERIES</b>											
3	140	140	1300	400	85	500	w80*d105	200x200	270	according to foundation to be used	800
4	140	140	1300	400	85	500	w80*d105	200x200	270		800
5	140	140	1300	400	85	500	w80*d105	200x200	270		800
6	140	140	1300	400	85	500	w80*d105	200x200	270		1000



Main dimensions (mm)					Space for coupling (mm)				Flange (mm)		Embedding (mm)		
Height (m)	Top □	Base □	Wood height	Base height	Top height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>TEMPO</b>													
4 P01	140	140	500	3000	500	400	85	500	w80*d105	200x200	270	according to foundation to be used	800
4 P02	140	140	500	2000	1500	400	85	500	w80*d105	200x200	270		800
5 P03	140	140	500	3000	1500	400	85	500	w80*d105	200x200	270		800
6 P04	140	140	500	4000	1500	400	85	500	w80*d105	200x200	270		1000
4 F01	140	140	1500	1400	1100	400	85	500	w80*d105	200x200	270		800
5 F02	140	140	1500	1400	2100	400	85	500	w80*d105	200x200	270		800
5 F03	140	140	1500	2000	1500	400	85	500	w80*d105	200x200	270		800
6 F04	140	140	1500	1400	3100	400	85	500	w80*d105	200x200	270		1000
6 F05	140	140	1500	3000	1500	400	85	500	w80*d105	200x200	270		1000

P = Piano, F = Forte

### CAPACITY OF THE POLES

Height (m)	22 cat 1	22 cat 2	22 cat 3	24 cat 1	24 cat 2	24 cat 3	26 cat 1	26 cat 2	26 cat 3	28 cat 1	28 cat 2	28 cat 3	32 cat 1	32 cat 2	32 cat 3
<b>RUKA, RUKA PROFILES</b>															
3	3,92	4,71	5,23	3,24	3,89	4,33	2,70	3,26	3,63	2,28	2,75	3,07	1,66	2,01	2,25
4	2,49	3,17	3,63	2,01	2,57	2,95	1,64	2,11	2,44	1,34	1,74	2,03	0,91	1,21	1,42
5	1,57	2,02	2,49	1,24	1,62	2,01	0,96	1,29	1,64	0,74	1,02	1,31	0,42	0,63	0,84
6	0,90	1,22	1,65	0,66	0,93	1,28	0,47	0,70	0,99	0,31	0,51	0,77	0,05	0,22	0,40
<b>TEMPO</b>															
4 P01	2,52	3,22	3,69	2,05	2,61	3,00	1,66	2,15	2,48	1,37	1,78	2,07	0,93	1,24	1,45
4 P02	2,50	3,19	3,65	2,03	2,59	2,98	1,66	2,13	2,46	1,35	1,76	2,05	0,92	1,23	1,43
5 P03	1,63	2,11	2,62	1,26	1,66	2,08	0,99	1,32	1,67	0,77	1,05	1,35	0,44	0,65	0,86
6 P04	1,01	1,37	1,86	0,73	1,03	1,43	0,51	0,77	1,09	0,34	0,55	0,83	0,08	0,24	0,43
4 F01	2,47	3,14	3,60	2,00	2,55	2,93	1,63	2,09	2,42	1,33	1,73	2,01	0,90	1,20	1,41
5 F02	1,57	2,04	2,52	1,22	1,61	2,01	0,94	1,27	1,61	0,73	1,00	1,29	0,41	0,62	0,83
5 F03	1,60	2,08	2,57	1,25	1,64	2,05	0,96	1,29	1,65	0,75	1,03	1,32	0,42	0,63	0,84
6 F04	0,92	1,25	1,68	0,67	0,95	1,31	0,45	0,70	1,01	0,29	0,50	0,76	n/a	0,20	0,38
6 F05	1,00	1,35	1,84	0,72	1,02	1,41	0,50	0,76	1,08	0,33	0,54	0,82	0,07	0,24	0,42

Reference load used for calculation 20 kg.

SQUARE



RUKA



TEMPO  
PIANO



TEMPO  
FORTE

# SQUARE-ROUND CONICAL

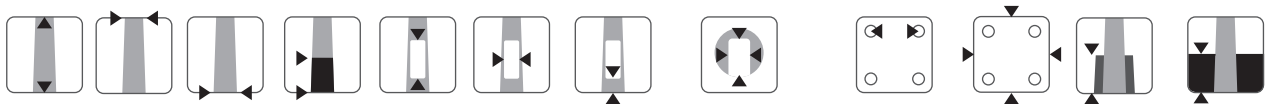


IVALO





IVALO 4M

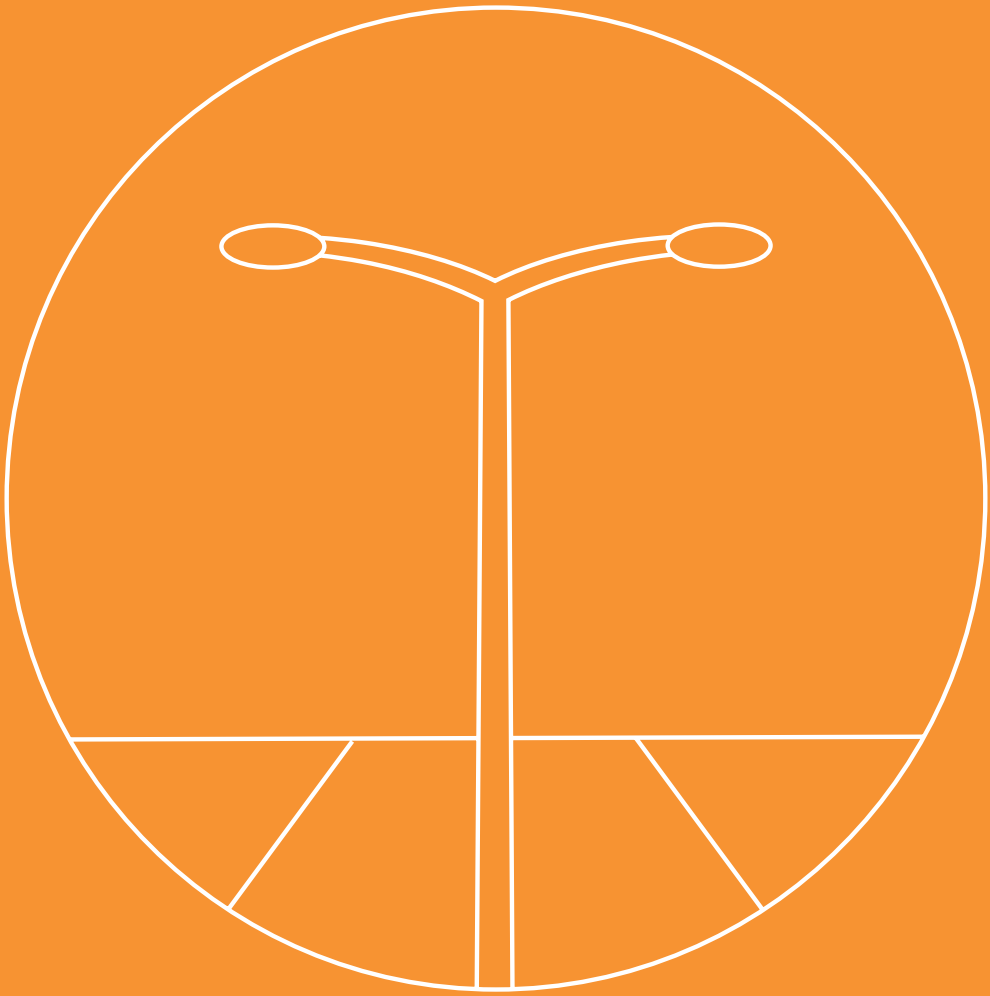


Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)	
Height (m)	Top ø	Base □	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>IVALO</b>											
4	90	140	1300	400	85	500	w80*d105	200x200	270	according to foundation to be used	800
5	90	140	1300	400	85	500	w80*d105	200x200	270		800
6	90	140	1300	400	85	500	w80*d105	200x200	270		1000

### CAPACITY OF THE POLES

Height (m)	22 cat 1	22 cat 2	22 cat 3	24 cat 1	24 cat 2	24 cat 3	26 cat 1	26 cat 2	26 cat 3	28 cat 1	28 cat 2	28 cat 3	32 cat 1	32 cat 2	32 cat 3
<b>IVALO</b>															
4	2,34	2,92	3,32	1,94	2,44	2,76	1,64	2,06	2,33	1,40	1,75	1,99	1,05	1,31	1,49
5	1,48	1,85	2,25	1,22	1,52	1,86	1,01	1,27	1,55	0,85	1,07	1,31	0,63	0,79	0,96
6	0,97	1,22	1,59	0,78	0,98	1,28	0,64	0,81	1,05	0,52	0,67	0,87	0,37	0,47	0,62

Reference load used for calculation 20 kg.



TRAFFIC  
ENVIRONMENT

**TRAFFIC**  
**6-10m**



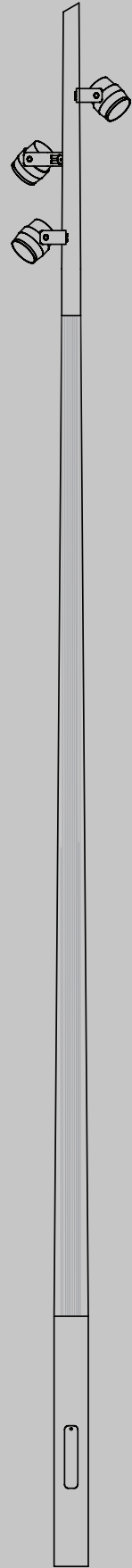
ROUND  
CONICAL



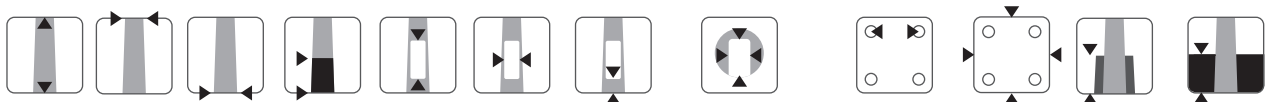
PALLAS



SEKA



SEKA

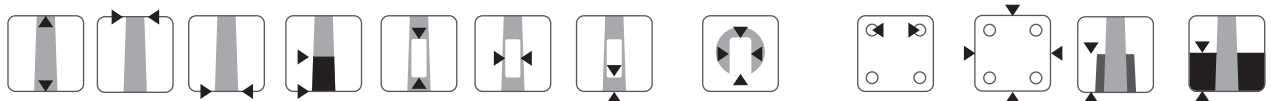


Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)	
Height	Top ø	Base ø	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>PALLAS</b>											
6	100	168	1400	400	85	500	w80*d120	200x200	270	600	1000
7	100	193	1400	400	85	500	w80*d150	300x300	400	700	1200
8	100	193	1400	400	85	500	w80*d150	300x300	400	700	1200
10	120	219	1600	500	100	500	w95*d170	300x300	400	700	1500
<b>SEKA</b>											
6	100	168	1400	400	85	500	w80*d120	200x200	270	600	1000
7	100	193	1400	400	85	500	w80*d150	300x300	400	700	1200
8	100	193	1400	400	85	500	w80*d150	300x300	400	700	1200
10	100	219	1600	500	100	500	w95*d170	300x300	400	700	1500

### CAPACITY OF THE POLES

Height (m)	22			24			26			28			32		
	cat 1	cat 2	cat 3	cat 1	cat 2	cat 3	cat 1	cat 2	cat 3	cat 1	cat 2	cat 3	cat 1	cat 2	cat 3
<b>PALLAS</b>															
6	1,38	1,70	2,19	1,15	1,41	1,81	0,96	1,19	1,52	0,83	1,01	1,29	0,62	0,76	0,97
7	1,47	1,78	2,38	1,23	1,49	1,98	1,03	1,25	1,67	0,87	1,07	1,43	0,65	0,80	1,07
8	1,09	1,32	1,84	0,89	1,09	1,51	0,75	0,91	1,26	0,63	0,78	1,07	0,45	0,57	0,79
10	1,17	1,39	1,88	0,96	1,15	1,55	0,80	0,96	1,29	0,65	0,82	1,10	0,42	0,57	0,81
<b>SEKA 1m steel cone</b>															
6	1,38	1,70	2,18	1,15	1,41	1,80	0,96	1,19	1,52	0,83	1,01	1,29	0,62	0,77	0,97
7	1,47	1,77	2,35	1,22	1,48	1,97	1,03	1,25	1,66	0,87	1,07	1,43	0,64	0,80	1,07
8	1,08	1,31	1,83	0,89	1,08	1,50	0,75	0,90	1,25	0,63	0,77	1,06	0,45	0,57	0,79
10	1,13	1,36	1,85	0,93	1,12	1,52	0,77	0,93	1,26	0,64	0,79	1,07	0,43	0,56	0,78
<b>SEKA 2m steel cone</b>															
6	0,92	1,13	1,45	0,77	0,94	1,21	0,64	0,79	1,01	0,55	0,68	0,86	0,41	0,50	0,65
7	0,74	0,90	1,22	0,61	0,75	1,01	0,51	0,63	0,84	0,43	0,53	0,72	0,33	0,41	0,54
8	0,69	0,83	1,16	0,57	0,69	0,95	0,48	0,58	0,81	0,41	0,49	0,68	0,31	0,37	0,51
10	0,64	0,77	1,03	0,53	0,63	0,85	0,44	0,53	0,72	0,38	0,45	0,61	0,29	0,34	0,45

Reference load used for calculation 20 kg.



Main dimensions (mm)				Space for coupling (mm)				Flange (mm)		Embedding (mm)	
Height (m)	Top □	Base □	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>KOLI</b>											
6	120	160	1400	400	85	500	w80*d125	200x200	270	according to foundation to be used	1000
7	120	160	1400	400	85	500	w80*d125	300x300	400		1200
8	120	180	1400	400	85	500	w80*d145	300x300	400		1200
10	120	200	1600	500	100	500	w95*d165	300x300	400		1500
Height (m)	Top ø	Base □	Base height	Height	Width	Distance	Internal dimensions	Bolt spacing	Width	Concrete	Ground
<b>IVALO</b>											
6	100	160	1400	400	85	500	w80*d125	200x200	270	according to foundation to be used	1000
7	100	160	1400	400	85	500	w80*d125	300x300	400		1200
8	100	180	1400	400	85	500	w80*d145	300x300	400		1200
10	120	200	1600	500	100	500	w95*d165	300x300	400		1500

### CAPACITY OF THE POLES

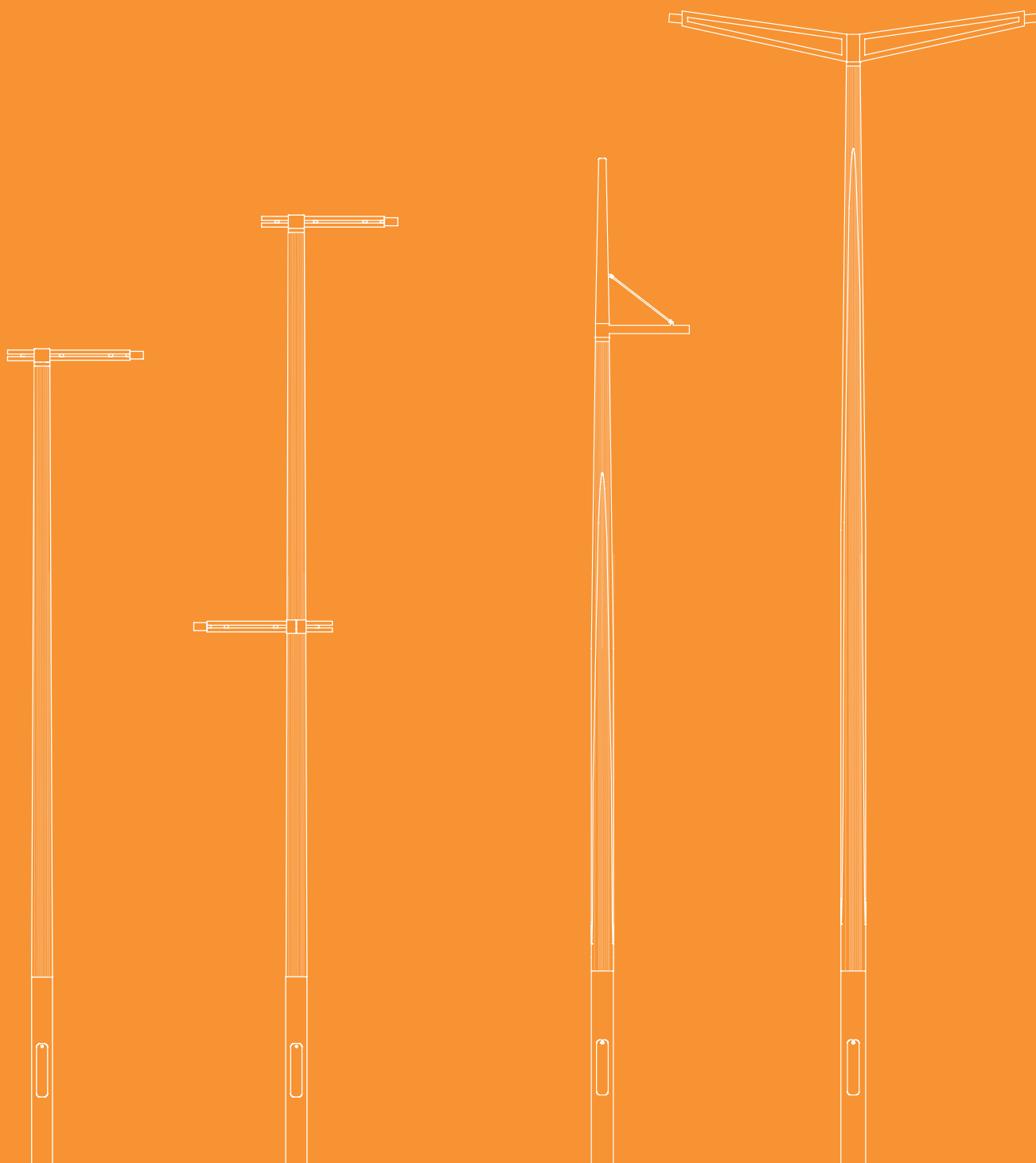
Height (m)	22 cat 1	22 cat 2	22 cat 3	24 cat 1	24 cat 2	24 cat 3	26 cat 1	26 cat 2	26 cat 3	28 cat 1	28 cat 2	28 cat 3	32 cat 1	32 cat 2	32 cat 3
<b>KOLI</b>															
6	1,18	1,57	2,10	0,87	1,20	1,64	0,63	0,91	1,26	0,44	0,68	0,98	0,17	0,35	0,55
7	0,94	1,27	1,83	0,69	0,96	1,42	0,48	0,72	1,10	0,32	0,53	0,84	0,08	0,25	0,46
8	1,06	1,44	2,14	0,76	1,07	1,66	0,52	0,79	1,27	0,33	0,56	0,97	n/a	0,24	0,53
10	0,41	0,74	1,33	0,12	0,41	0,89	n/a	0,15	0,55	n/a	n/a	0,28	n/a	n/a	n/a
<b>IVALO</b>															
6	1,44	1,81	2,35	1,16	1,46	1,90	0,94	1,19	1,55	0,77	0,97	1,28	0,51	0,67	0,88
7	1,01	1,27	1,73	0,82	1,02	1,40	0,66	0,83	1,15	0,54	0,69	0,95	0,36	0,47	0,67
8	1,18	1,47	2,06	0,94	1,19	1,66	0,77	0,96	1,35	0,62	0,80	1,12	0,40	0,54	0,78
10	1,00	1,29	1,81	0,75	0,99	1,41	0,53	0,76	1,11	0,37	0,56	0,86	0,10	0,27	0,49

Reference load used for calculation 20 kg.

# SQUARE CONICAL

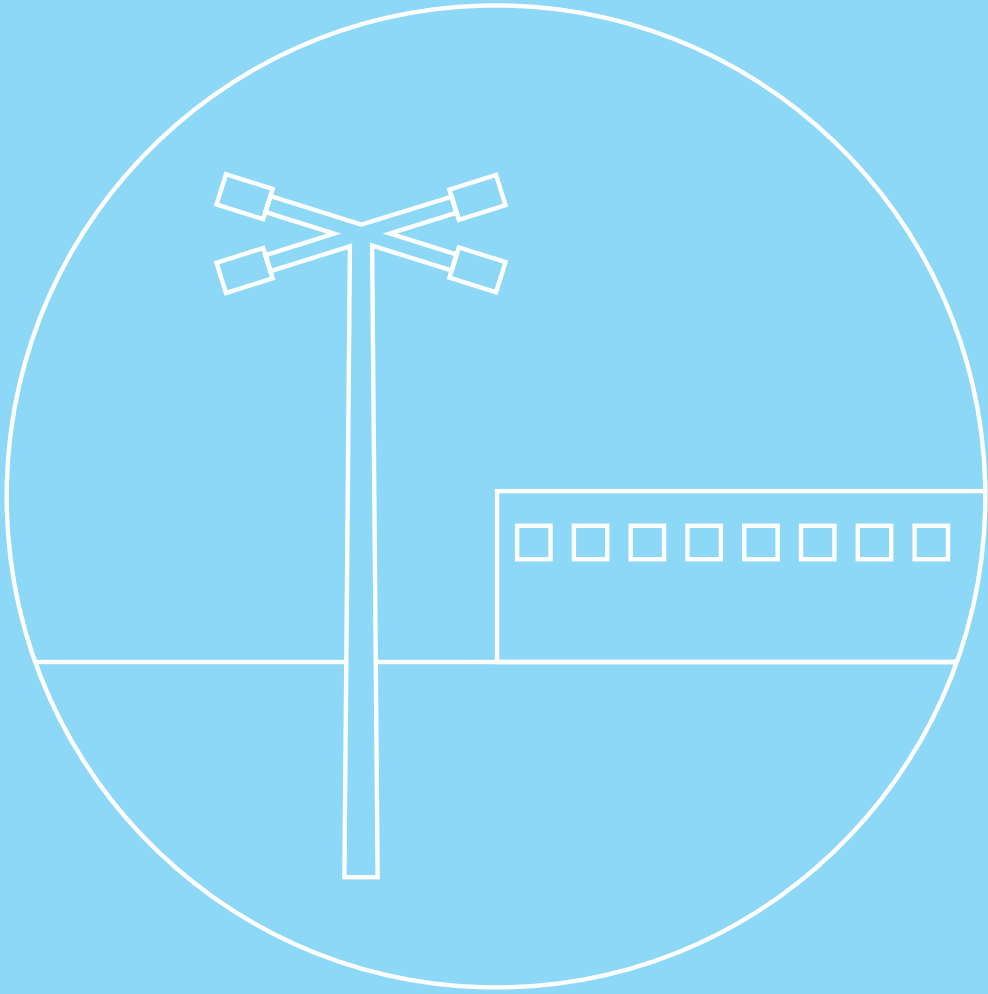


# SQUARE-ROUND CONICAL



KOLI

IVALO



OPEN SPACE  
ENVIRONMENT

**OPEN SPACE**  
**3-24m**





# OPEN SPACE

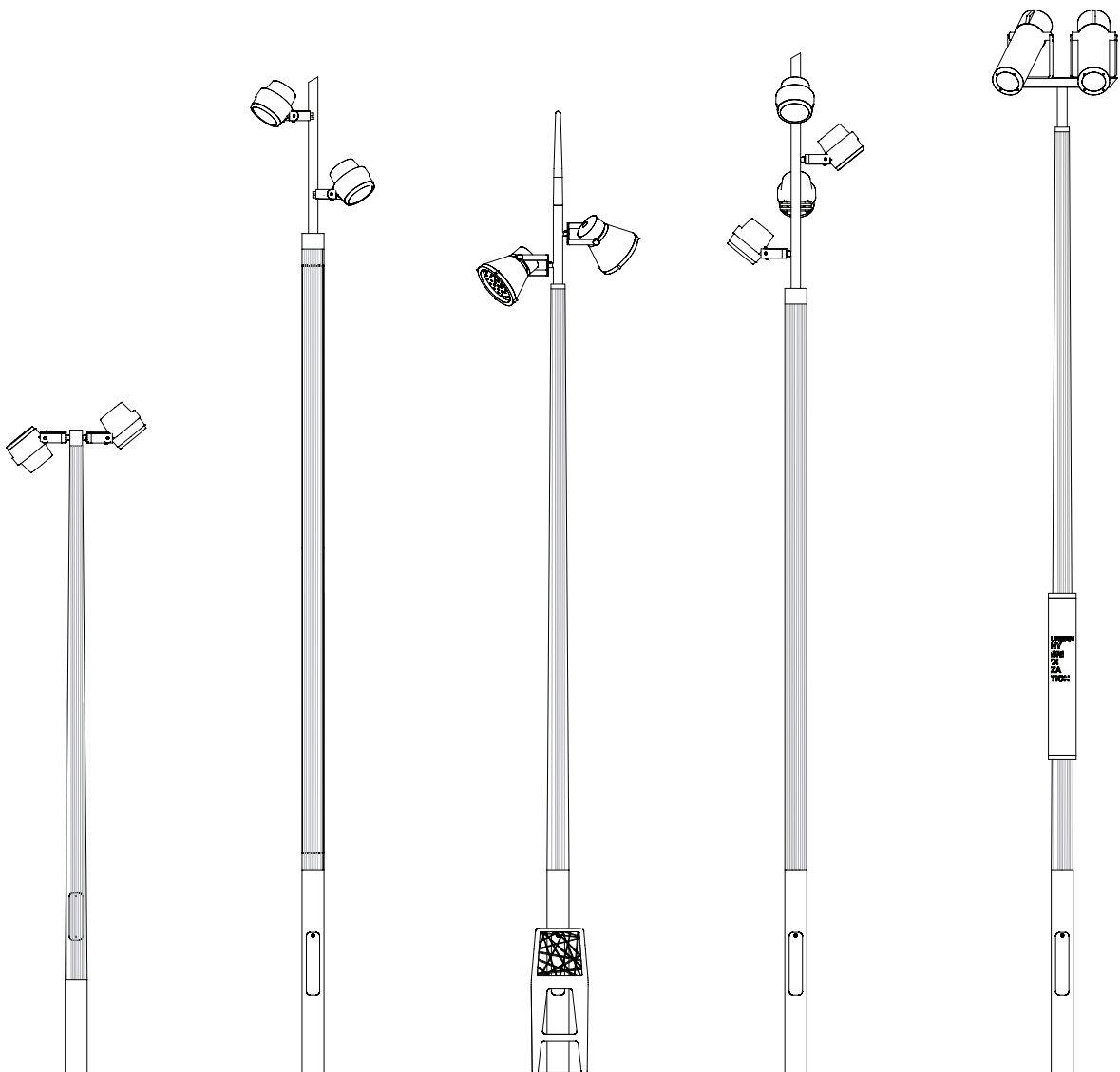
All open space products are calculated project wise. Amount, weight and wind load of floodlights and other possible equipment used (ex. CCTV cameras, antennas) affects to the dimensioning of poles. Also wind area information of installation site is needed.

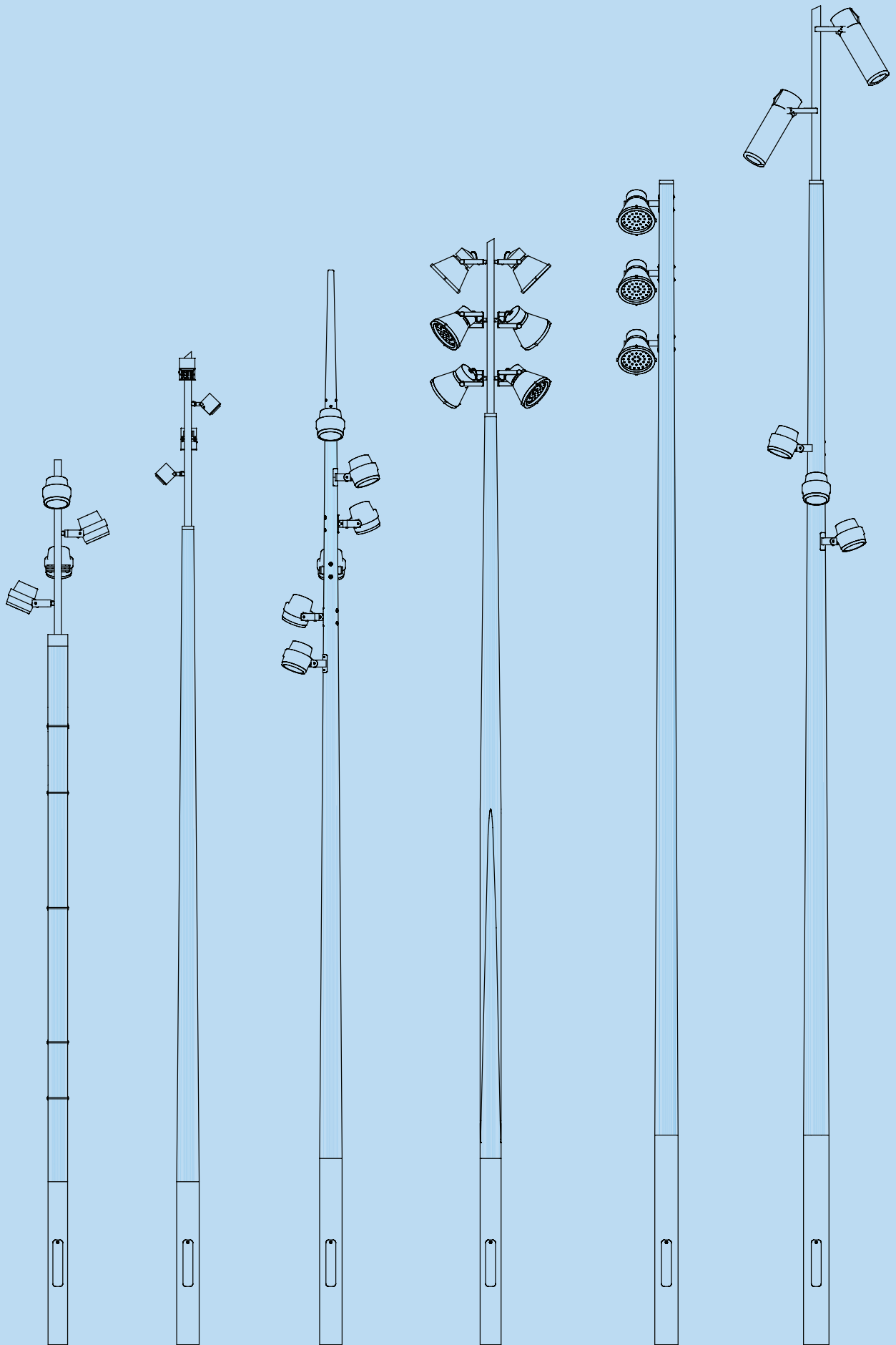
## SINGLE POLES WITH VARIATION IN THE AMOUNT OF FLOODLIGHT

Cylindrical or square steel base, conical or square conical wood shaft. These poles can be installed with different numbers of floodlights on the pole. Installation direct to shaft or using universal SIIPI adapter.

## HIGH MASTS, C-JOINT (2 section) STRUCTURE 13-24 M

The round conical KARTIO or the square conical NELIÖ models are split into two sections with a steel joint. This enables taller masts to fit into a truck without the need for special logistics.

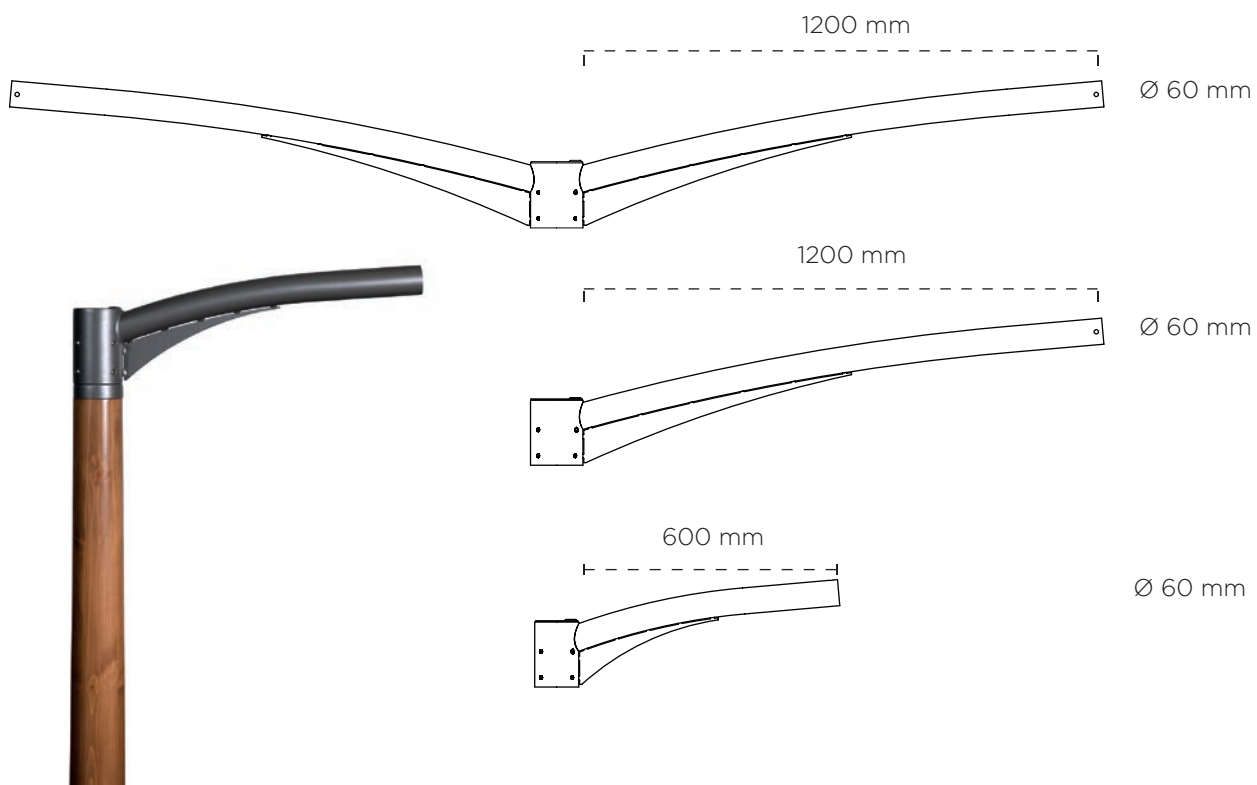




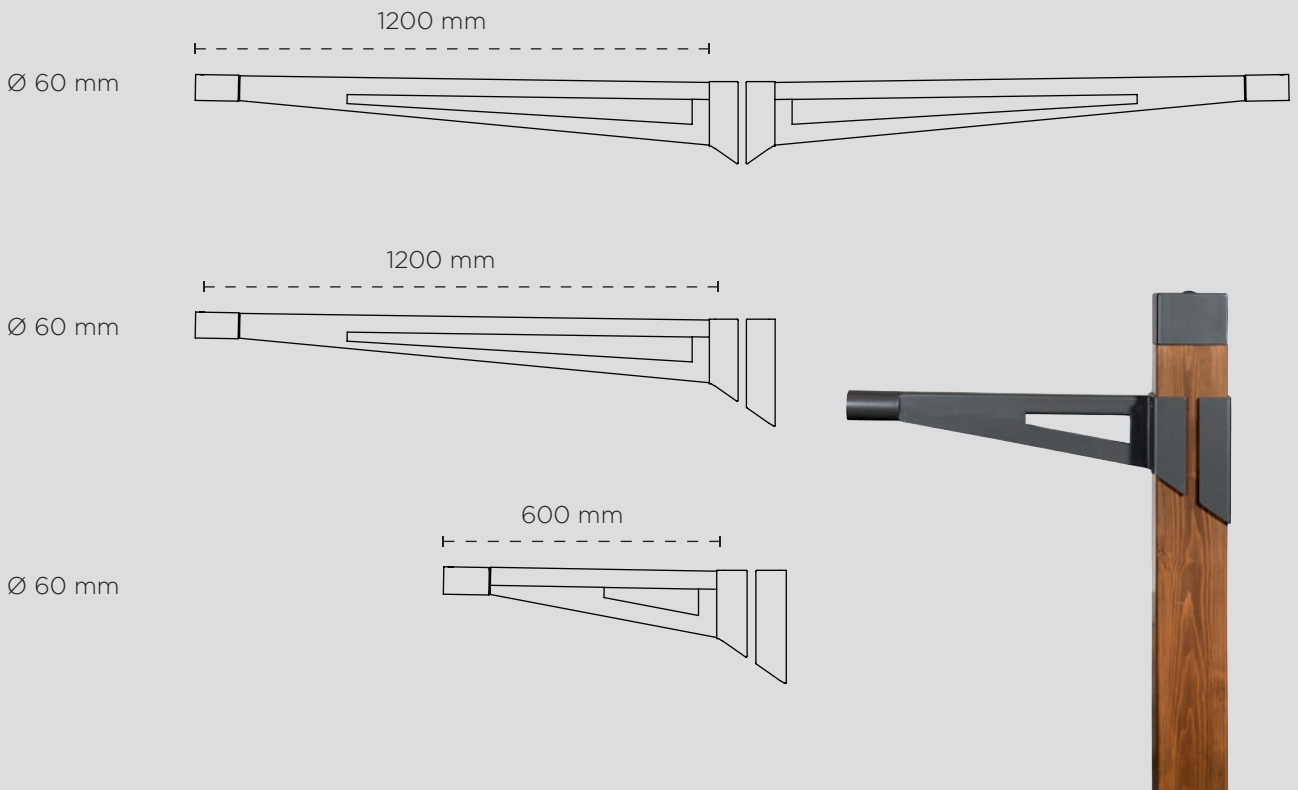
# ACCESSORIES

# ARMS

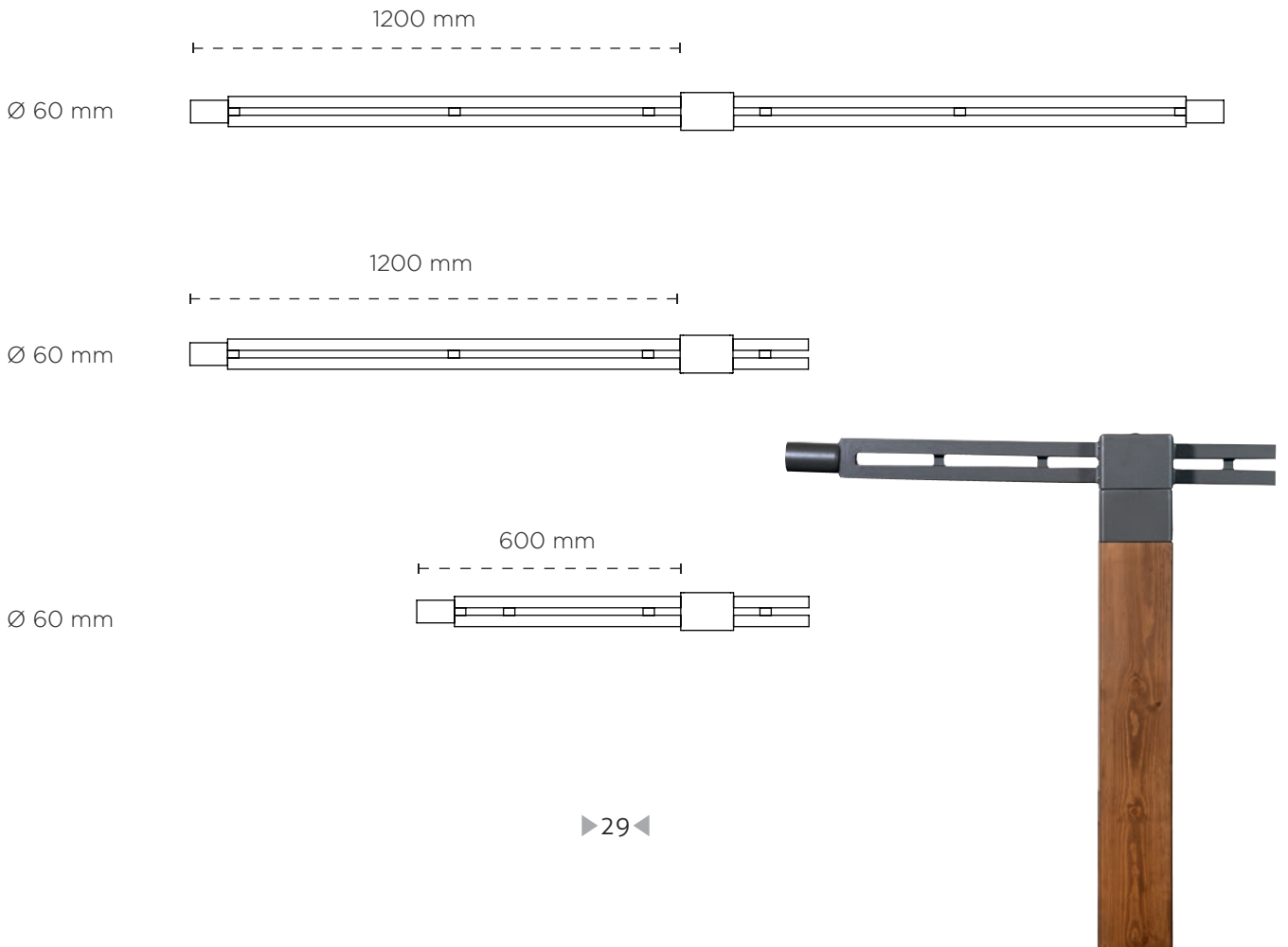
## MERGANSER



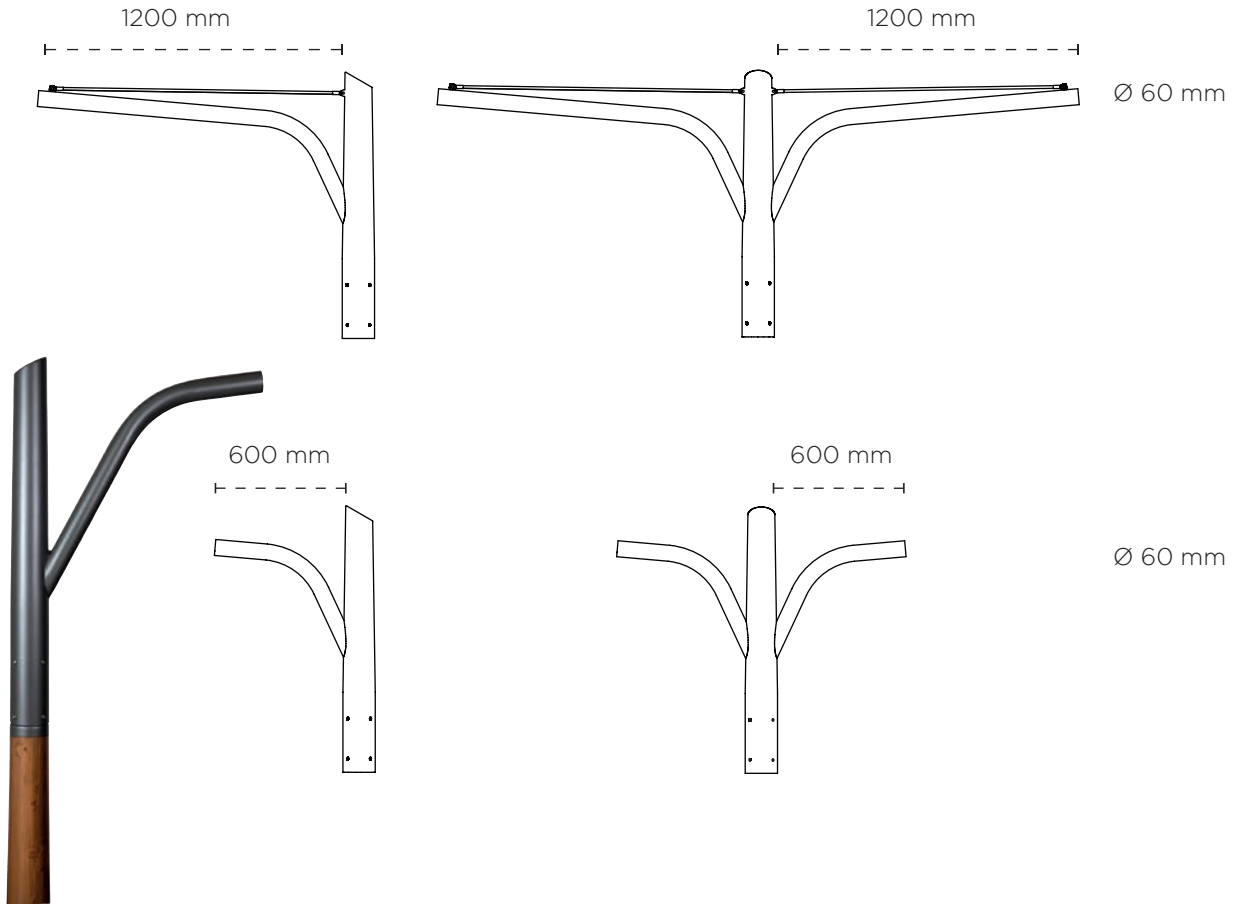
## SWALLOW



## TIKKA

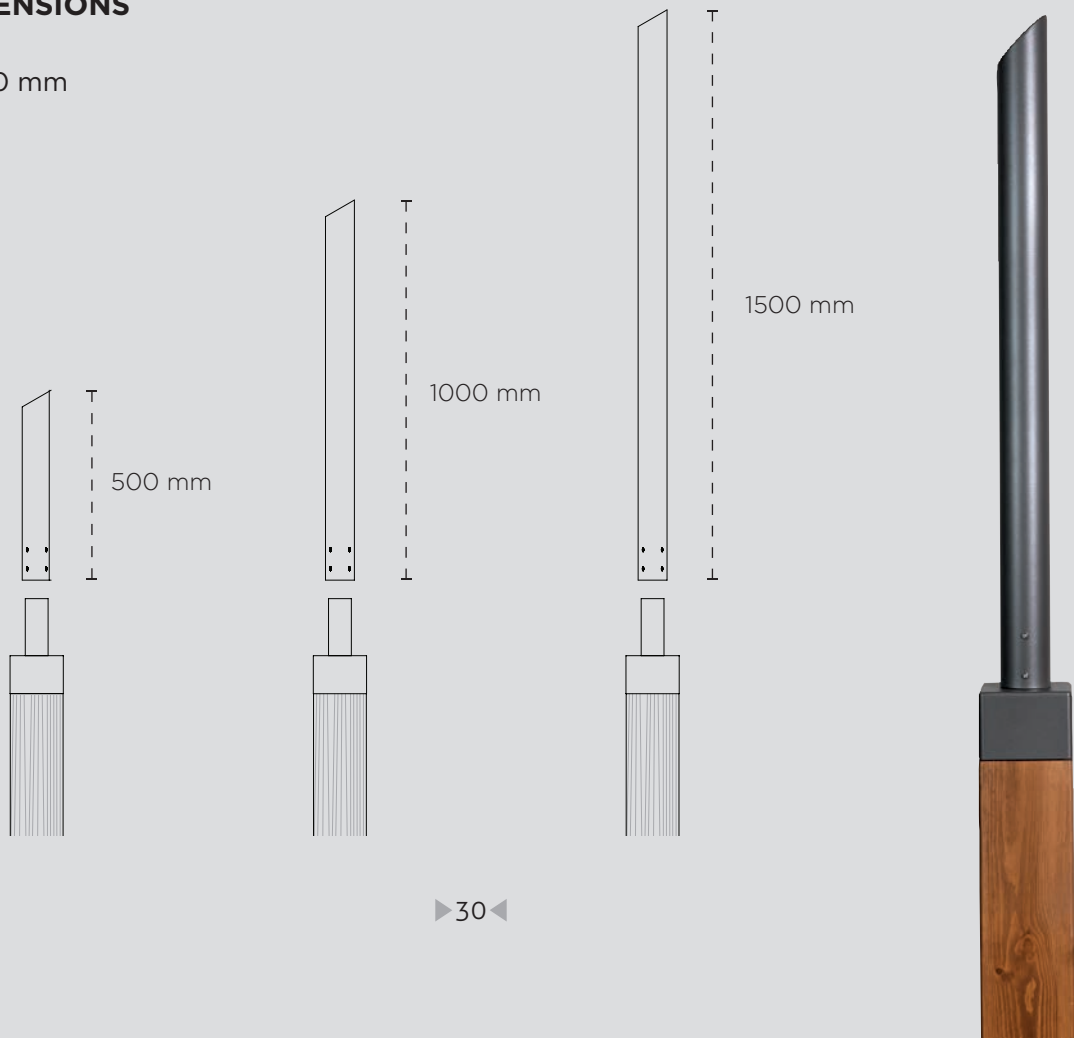


# SEKA

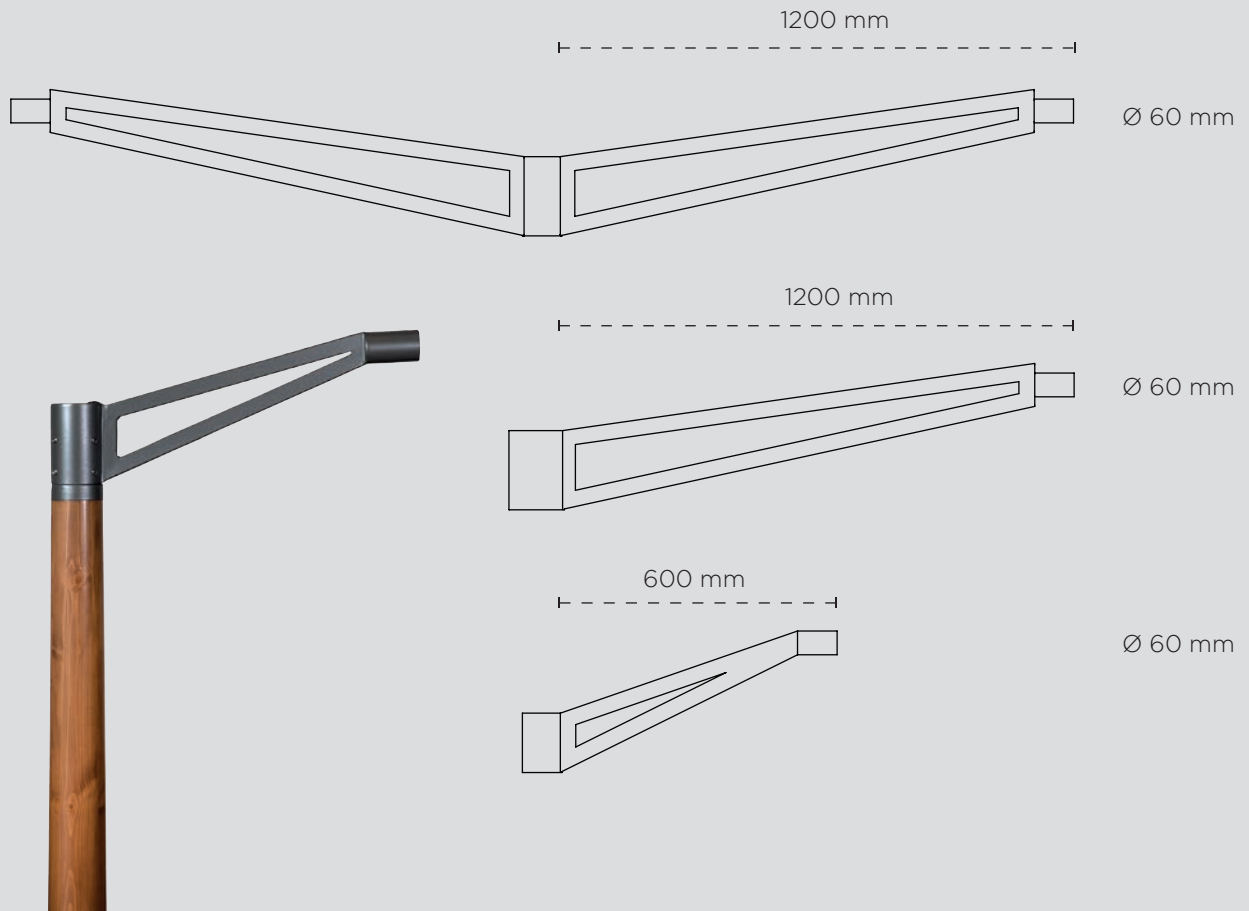


# STEEL EXTENSIONS

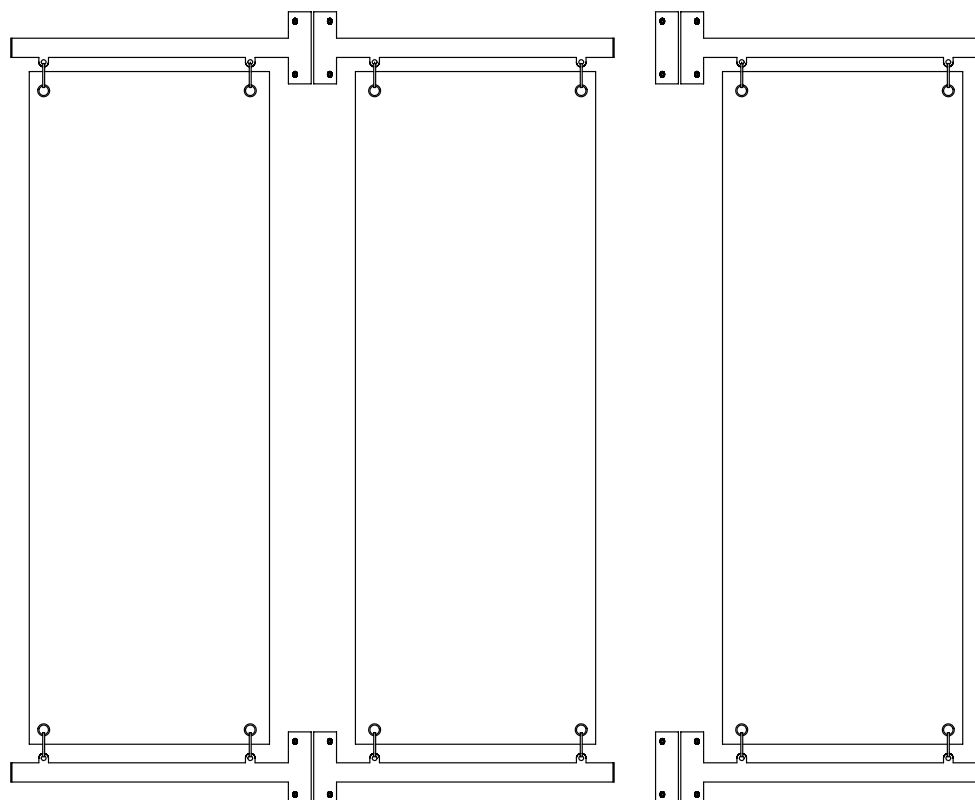
$\varnothing 76, 80 \times 80$  mm



# GULL



# BANNER ARMS



## WOODEN TOP SPIKES

To finalize the outlook of your pole.  
Can be customized on project basis.



## ALUMINUM TOP SPIKES

Heights 1050 mm for top Ø 90mm, 1200 mm  
for top Ø 100 mm, 1500 mm for top Ø 120 mm



---

## SIPI adapter for floodlight fixation and orientation



Fixing into Aarki steel extension



Fixing into shaft



Customizable for different fixations



## FIXING



Spigot with no bracket

A (mm)	B (mm)
ø 60	70
ø 60	100
ø 76	70
ø 76	100



Standard fixing method for side mounting (single, double)

## DOOR



Rail for installation and connection cable

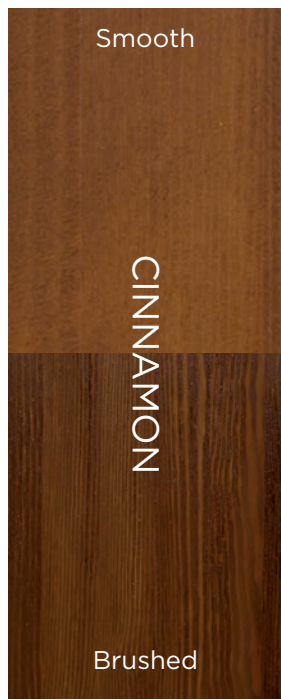


Antivandal lock available for vandalism protection



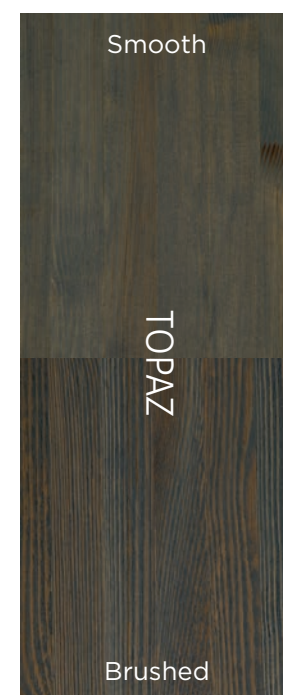
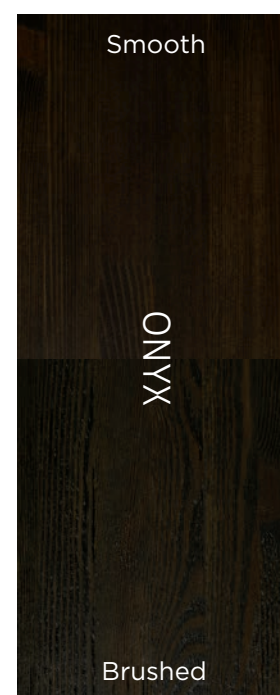
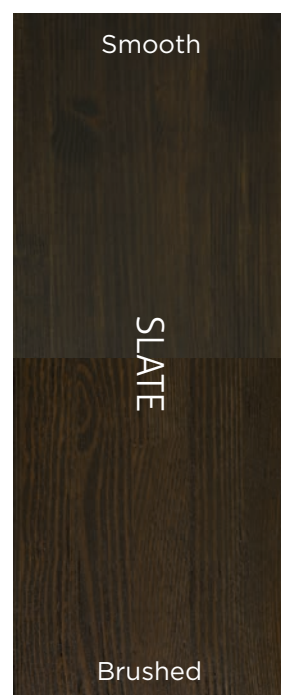
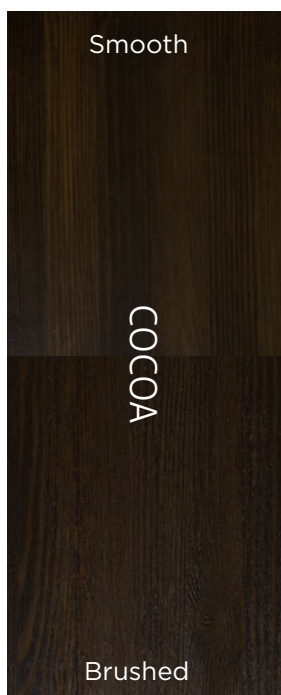
ALTO hinge fitted with a retractable end stop which allows the inspection door to be opened vertically and kept open. The system can be installed on all types of mast from ø 125 mm at the top of the door. Patented by Valmont Inc.

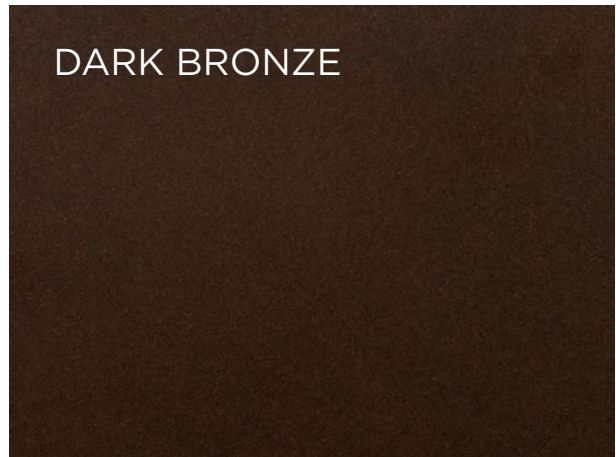
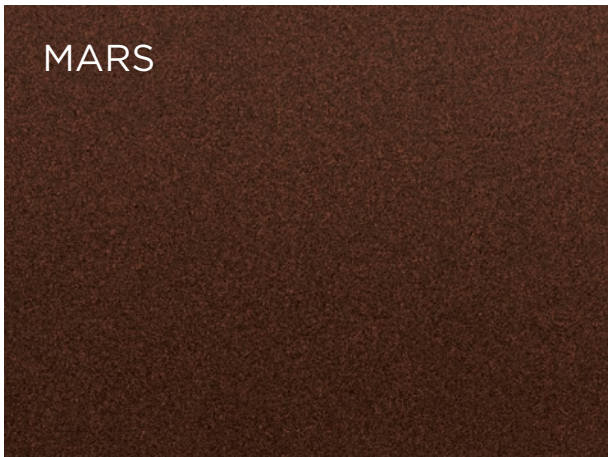
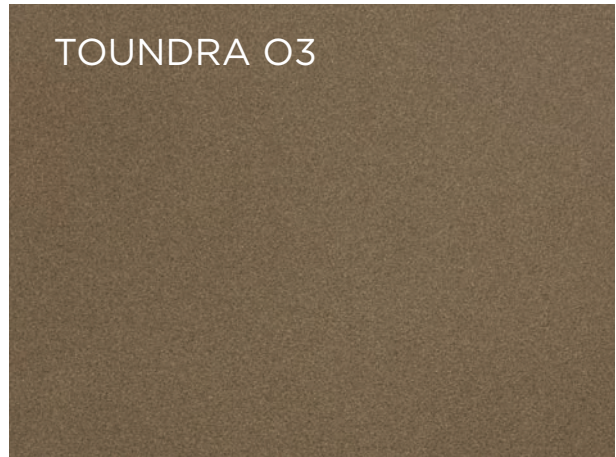
# COLOURS



## SURFACE TREATMENT

Wood is treated against ageing and natural enemies of wood, such as blue stain fungi, mildew and rot. As a natural material wood is expected to expand and shrink as the seasons and moisture change. Our elastic coating is designed to adapt to this behaviour of wood without cracking. Several layers are applied to give wood its final colour and to protect against UV radiation to maintain desired looks. Consistent coating is achieved on by using spray gun and modern drying chamber.





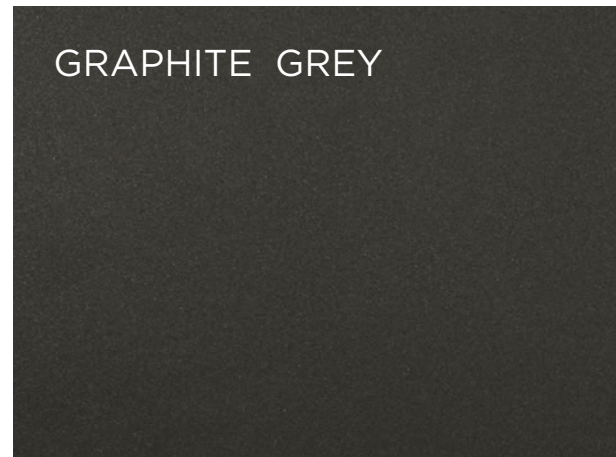
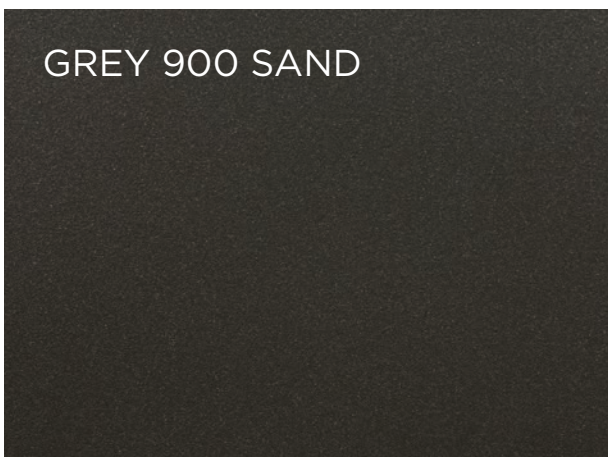
## POWDER COATINGS



Our Tehocoat® coating ensures high quality for surface finishing.

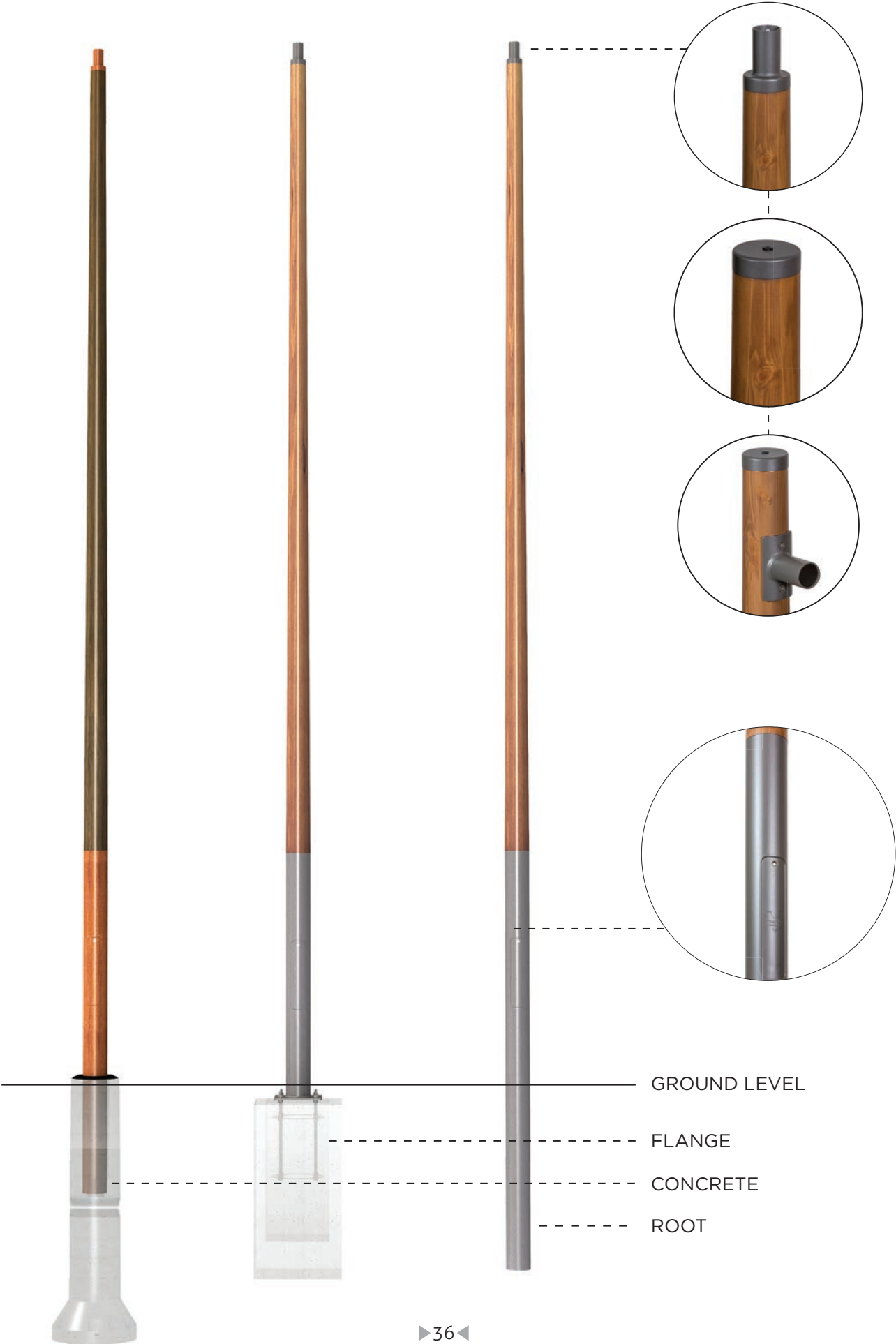
Powder coating is a fast, durable and environmentally friendly solution. Coating powders contain no volatile organic compounds and can be used to obtain a durable surface resistant to mechanical and chemical abrasion.

In addition to powder coating, our paint shop can also apply wet paints and Plascoat thermoplastic coatings, and utilize modern solutions to produce different kinds of textures.



Due to printing techniques, the colours presented may differ from reality.

# INSTALLATION OPTIONS



PALLAS 8M





## MAINTENANCE GUIDELINES FOR WOODEN LIGHTING POLES

Wooden lighting poles are manufactured from Finnish coniferous trees, the same material used for building houses. In harsh Scandinavian environments the temperature variation during the year can be more than 70 °C.

Just like a house built to last in the northern environment, our wooden lighting poles have been prepared to face every environmental stress imaginable. We have selected the surface treatments based on the ultimate combination of environmental friendliness and wood protection to ensure the maximum product life cycle. With proper maintenance, wooden lighting poles can easily serve an operational life of 30 years or more.

### SURFACE TREATMENT PROCEDURE IN BRIEF

The initial treatment is carried out in the factory with a water-based wood preservative that protects against blue stain fungi, mildew and wood rot. The second coat is a translucent wood protection that gives the product its base colour, after which the poles are varnished twice with a colour-tinted water-based alkyd-acrylic binder that protects the wood against UV radiation, blue stain fungi and mildew. The varnish has excellent weather resistance because it has been pigmented, therefore protecting the layers beneath. As a natural material, wood must be expected to expand and shrink as the seasons pass and moisture levels change. Our elastic coating is designed to adapt to this behaviour without cracking.



### MAINTENANCE PROGRAMME

As a construction material, wood is very durable and long-lasting; however, maintenance will still be required. A scheduled maintenance programme is recommended to maximise the lifetime of your wooden pole. UV radiation and humidity are the main causes of degradation to the surface finish. These two phenomena change the appearance of the pole. If no maintenance is performed, the effectiveness of the coating will progressively decrease, reducing its protection of the wood itself. The speed of the ageing process depends on the level of sunlight and the alternation between humid and dry periods. For that reason the installation location should be taken into account when choosing the initial colour. Shades in the middle of the colour range show fewer signs of ageing. The first stage of ageing takes place from 3 to 7 years after installation, except at seaside locations, where there is a sanding effect that damages all materials, even steel.

In addition to the natural ageing process and the natural behaviour of the material, including possible seepage, in urban environments wooden lighting poles may encounter vandalism (posters, stickers, graffiti, etc.), which also requires maintenance. These procedures are explained in detail in a separate maintenance guide for wooden lighting poles.



**1st maintenance** (after 7-10 years of operational life)

**2nd maintenance** (after 14-17 years of operational life)

**3rd maintenance** (after 22-25 years of operational life)

### **Environmental impact in terms of emissions of harmful gases**

Our water-based solution has a lower environmental impact than its solvent-based counterparts.

The wood stain selected complies with European Directive 2004/42/EC on the limitation of emissions of volatile organic compounds.

- The VOCs for the five coats equate to 100 g/L.
- In comparison, VOCs from solvent-based products vary between 300 and 400 g/L.

This choice anticipates future directives aimed at banning solvent use outdoors (already in effect indoors).

### **Recommendations**

#### **Only work in good weather conditions.**

Outdoor temperatures must remain between +12 and +16 °C. The temperature of the air, the surface and the paint must be above +15 °C and the relative humidity of the air must be below 80% during the time of application and drying. The best result is achieved when the temperature of the air is between +23 and +38 °C, the relative humidity of the air is 50-70% and the ventilation is good.

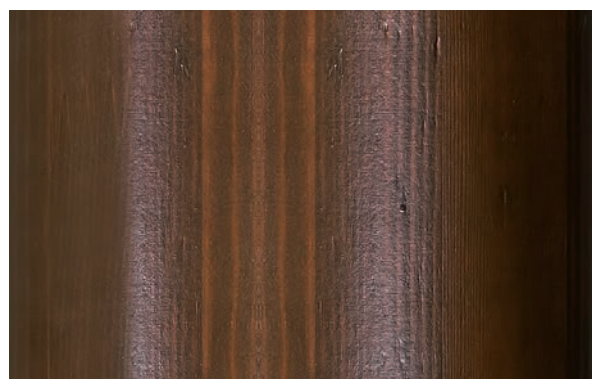
Depending on the site location, this procedure will need to be repeated every 5 to 8 years. Particularly exposed areas, subject to constant vibration or the effects of sand, water, etc., will require more frequent maintenance.

### **Extreme conditions**

In extreme conditions such as those found in coastal areas, we suggest using the brushed wood finish for the following reasons:

- The relief of the surface ensures better impregnation of the stain when applied. The brushed surface of the section has a larger surface area and therefore more stain is absorbed.
- When the wood is brushed it takes out the soft wood, leaving the harder material.

*A comprehensive manual describing maintenance procedures for wooden poles can be downloaded from [tehomat.com](http://tehomat.com) or [woodenpoles.com](http://woodenpoles.com).*



PALLAS  
INARI  
RUKA  
KOLI  
IVALO  
BALLAD  
**3-24m**  
SEKA  
ONTELO  
LEMPEÄ  
LAINE  
KAISLA  
RYTMI  
TEMPO



**valmont** 

[www.woodenpoles.com](http://www.woodenpoles.com)

[www.tehomet.com](http://www.tehomet.com)

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*Aalto*